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**GEORGE A. BURDOCK, Ph.D.**  
*Diplomate, American Board of Toxicology*

### *CURRICULUM VITAE*

**Burdock Group**  
**Vero Beach, FL and Washington DC**

**1988-Present**

#### **Founder and President**

Dr. Burdock is an internationally recognized authority on the safety of food ingredients, personal care products, and dietary supplements. He has more than twenty years experience dealing with regulatory issues related to product safety and risk assessment. As the President of Burdock Group, Dr. Burdock provides safety and toxicity information on food, food and feed additives, drug excipients, and contaminants to a varied client list, including Fortune 100 corporations, start-up companies, law firms, and trade associations. This information may be in the form of confidential reviews, regulatory petitions, Generally Recognized As Safe (GRAS) self determinations, GRAS notifications, product contamination, and litigation support. As a leading scientist in the food industry, Dr. Burdock is sought by scientific publishers to author journal articles and edit reference books on food additives, flavor ingredients, and regulatory matters and by clients to comment on proposed regulations or respond to communications from regulatory agencies including the FDA and the USDA.

**Flavor and Extract Manufacturers' Association (FEMA)**  
**Washington, D.C.**

**1986-1992**

#### **Director of Scientific Affairs**

Dr. Burdock managed the FEMA scientific programs, coordinated the research activities of the testing laboratories, and communicated with external consultants and allied industry committees working with FEMA. As the primary scientific liaison, Dr. Burdock guided member companies with the preparation of submissions to the FEMA Expert Panel for GRAS review, alerted Expert Panel and Association members to scientific developments in the food and flavor industry, and identified

changes in the regulatory policies as a result of these developments. He authored and edited comprehensive literature reviews on flavor additives and other topics relevant to the Association's interests.

**Shulton Research Division, American Cyanamid Corporation**  
**Clifton, New Jersey**

**1984-1986**

### **Manger of Biological Services**

Dr. Burdock directed the Product Safety section, Microbiological Research Services, the Clinical Evaluation Laboratory and the Product Evaluation Center. As the senior toxicologist, he was responsible for the toxicological laboratories and microbiologic safety of products applied to the test groups in clinical evaluation laboratories and for those products released for public use. Dr. Burdock served as a corporate member of the Pharmacology/Toxicology Committee and the Cosmetic Ingredient Review Subcommittee of the Cosmetic, Toiletries and Fragrance Association. He represented the Consumer Products Division on toxicology issues within the corporation, and externally, with vendors, government agencies, and trade associations.

**Hazleton Laboratories America, Inc.**  
**Vienna, Virginia**

**1979-1984**

### **Senior Staff Scientist**

As a Study Director, Dr. Burdock designed and managed toxicological oversight for compliance with regulatory requirements, quality assurance, budgetary monitoring, testing of pharmaceuticals, food additives, pesticides, and evaluated the performance of subcontractors. He negotiated program design and individual toxicity study requirements for the registration of substances with FDA, EPA, and other regulatory agencies. Dr. Burdock supervised two laboratory sections -Teratology/Reproduction and Sub-Chronic Rodent Toxicology.

## **EDUCATION**

Ph.D. in Toxicology, School of Pharmacy, University of Mississippi, 1980

Master of Combined Sciences, Physiology and Biochemistry, University of Mississippi, 1973

Bachelor of Science, Biology, University of Mississippi, 1969

## **CERTIFICATIONS**

*Diplomate*, American Board of Toxicology, 1983; Recertified, 1988, 1993, 1998, 2003

*Fellow*, American College of Nutrition, 2003

## **PROFESSIONAL ORGANIZATIONS MEMBERSHIPS**

American Botanical Council

American Chemical Society

American College of Nutrition

American College of Toxicology

American Society for Nutrition

American Society for Clinical Nutrition  
Food and Drug Law Institute  
Institute of Food Technologists  
International Society of Regulatory Toxicology and Pharmacology  
Society of Toxicology

## PUBLICATIONS

**G.A. Burdock**, and I.G. Carabin (2007). Safety assessment of ylang-ylang oil as a food ingredient. *Food and Chemical Toxicology* (submitted to the editor).

**G.A. Burdock**, and I.G. Carabin (2007). Safety assessment of 2-ethyl-3,(5 or 6)-dimethylpyrazine as a food ingredient. *Regulatory Toxicology and Pharmacology* (submitted to editor).

**G.A. Burdock** and I.G. Carabin (2007). Safety assessment of sandalwood oil as a food ingredient. *Food and Chemical Toxicology* (submitted to editor).

I.G. Carabin and **G.A. Burdock** (2007). Safety assessment of  $\beta$ -ionone as a food ingredient. *Food and Chemical Toxicology* (submitted to editor).

**G.A. Burdock** and I.G. Carabin (2007). Safety assessment of hydroxypropylmethyl cellulose as a food ingredient. *Food and Chemical Toxicology* (submitted to editor).

**G.A. Burdock**, I.G. Carabin and J.C. Griffiths (2007) Breaking Down the Barriers to Functional Foods, Chapter XX. In: *Nutraceutical And Functional Food Regulation In The United States and Around The World*, a volume of the *Foodscience and Technology Series*. D. Bagchi (ed). Elsevier, NY (accepted and in press).

**G.A. Burdock** and L. Williams (2007) Nanotechnology and the potential nanotoxicity of food ingredients. *Agro Food Industry* (accepted by publisher)

F. Kotsonis, and **G.A. Burdock** (2007) Chapter 30: Food Toxicology. In: *Toxicology: The Basic Science of Poisons*. 8<sup>th</sup> edition C.D. Klaassen (Ed.) Pergamon Press, New York. (accepted and in press)

B.A. Magnuson, **G.A. Burdock**, J. Doull, R.M. Kroes, G.M. Marsh, M.W. Pariza, P.S. Spencer, W.J. Waddell, R. Walker, and G.M. Williams (2007). Aspartame: A safety evaluation based on current use levels, regulations, toxicological and epidemiological studies. Submitted to *Critical Reviews in Toxicology* (accepted and in press).

**G.A. Burdock** (2007) Safety assessment of castoreum extract as a food ingredient. *International Journal of Toxicology* 26:51 – 55.

**G.A. Burdock** and S. Teske (2007). Nanotechnology: benefits vs. toxic risks. *Functional Foods and Nutraceuticals*. Pp. 18 & 20.

**G.A. Burdock**, and I.G. Carabin (2006). Safety assessment of mystic acid as a food ingredient. *Food and Chemical Toxicology* 45:517-529.

**G.A. Burdock**, I.G. Carabin and J.C. Griffiths (2006). Toxicology and pharmacology of sodium ricinoleate. *Food and Chemical Toxicology* 44, 1689-1698.

R.A. Isbrucker and **G.A. Burdock** (2006). Risk and safety assessment on the consumption of Licorice root (*Glycyrrhiza* sp.), its extract and powder as a food ingredient, with emphasis on the pharmacology and toxicology of glycyrrhizin. *Regulatory Toxicology and Pharmacology* 46, 167-192.

M.G. Soni, **G.A. Burdock**, M.S. Christian, C.M. Bitler and R. Crea (2006). Safety Assessment of Aqueous Olive Pulp Extract as an Antioxidant or Antimicrobial Agent in Foods. *Food Chemical Toxicology* 221, 17-27.

**G.A. Burdock** and B. Magnuson (2006) Small threat? *World of Food Ingredients*. Pp 61-62.

**G.A. Burdock**, I.G. Carabin and J.C. Griffiths (2006). The Importance of GRAS to the Functional Food and Nutraceutical Industries *Toxicology* 221: 12-27.

**G.A. Burdock** and J.C. Griffiths (2006). Aflatoxin basics: Penicillins deadly cousin – past and present. *Petfood Industry* Pp. 28-29.

M.G. Soni, I.G. Carabin and **G.A. Burdock**. (2005) Safety assessment of esters of *p*-hydroxybenzoic acid (Parabens) *Food and Chemical Toxicology* 43(7):985-1015.

I.G. Carabin and **G.A. Burdock**. (2005) Overweight and obesity in the United States – an overview. *Update: Food and Drug Law, Regulation and Education* 42(9), 2004: 1513-29.

**G.A. Burdock**. (Ed) (2004) *Fenaroli's Handbook of Flavor Ingredients*. Fifth Edition. CRC Press, Boca Raton, FL. 2040 pp.

**G.A. Burdock** and I.G. Carabin (2004) Generally recognized as safe (GRAS): History and description. *Toxicology Letters*. 150(1):3-18.

M.G. Soni, I.G. Carabin, J.C. Griffiths, and **G.A. Burdock**. (2004) Safety of ephedra: lessons learned. *Toxicology Letters*. 2004 150(1): 97-110.

M.G. Soni, **G.A. Burdock**, H.G. Preuss, S.J. Stohs, S.E. Ohia, D. Bagchi (2004) Safety assessment of (-)-hydroxycitric acid and Super CitriMax®, a novel calcium/potassium salt, *Food and Chemical Toxicology* 42, 1513-1529

**G.A. Burdock**, and I.G. Carabin. (2004) Warning letters, recalls and elixir of death. *Nutritional Outlook* p. 20 – 26.

**G.A. Burdock**. (2003) Sensory deception: the science of making foods more palatable. *Functional Foods and Nutraceuticals* p. 34-36.

**G.A. Burdock**. (2003) The GRAS process. *Food Technology* 57(5):17.

**G.A. Burdock.** (2002) Chapter 3: Status and safety assessment of foods and food ingredients produced by genetically modified microorganisms. In *Biotechnology and Safety Assessment*. Third Edition. (J.A. Thomas and R. Fuchs, Eds.) Elsevier Science, New York. P. 39-83.

M.G. Soni, **G.A. Burdock**, S.L. Taylor, and N. Greenberg. (2002) Evaluation of the health aspects of methyl paraben: a review of published literature. *Food and Chemical Toxicology*. 2002 10: 1335-73.

F. Kotsonis, **G.A. Burdock**, and W.G. Flamm. (2001) Chapter 31: Food Toxicology. In: *Toxicology: The Basic Science of Poisons*. 7<sup>th</sup> edition C.D. Klaassen (Ed.) Pergamon Press, New York. P. 1049-1088

**G.A. Burdock.** (Ed.) (2002) *Fenaroli's Handbook of Flavor Ingredients*. Fourth Edition. CRC Press, Boca Raton, FL. 1834 pp.

**G.A. Burdock.** (2002) Regulation of flavor ingredients. In: *Nutritional Toxicology*. Second Edition. Target Organ Toxicology Series. (F. Kotsonis and M. Mackey, Eds.). Taylor and Frances, New York. p. 316-339.

**G.A. Burdock**, I.G. Carabin, and M.G. Soni. (2001) Safety assessment of beta-nitropropionic acid: A monograph in support of an acceptable daily intake in humans. *Food Chemistry* 75(1): 1-27.

M.G. Soni, **G.A. Burdock**, S.L. Taylor, and N. Greenberg. (2001) Safety assessment of propyl paraben. *Food and Chemical Toxicology* 39:513-532.

**G.A. Burdock**, M.G. Soni, and I.G. Carabin. (2001) Evaluation of health aspects of kojic acid in food. *Regulatory Toxicology and Pharmacology* 33:80-101.

M.G. Soni, S.A. White, W.G. Flamm, and **G.A. Burdock.** (2001) Safety evaluation of dietary aluminum. *Regulatory Toxicology and Pharmacology* 33:66-79.

M.G. Soni, H. Kimura, and **G.A. Burdock.** (2001) Chronic studies on diacylglycerol oil in rats. *Food and Chemical Toxicology* 39:317-329.

I.G. Carabin, **G.A. Burdock**, and C. Chatzidakis. (2000) Safety assessment of *Panax* ginseng. *International Journal of Toxicology* 19:293-301.

**G.A. Burdock** and W.G. Flamm. (2000) Review article: Safety assessment of the mycotoxin cyclopiazonic acid. *International Journal of Toxicology* 19:195-218.

**G.A. Burdock**, W.G. Flamm, and I.G. Carabin. (2000) Toxicity and mutagenicity studies of DN-50000<sup>®</sup> and RP-1<sup>®</sup> enzymes. *Food and Chemical Toxicology* 38:429-442.

**G.A. Burdock.** (2000) Dietary supplements and lessons to be learned from GRAS. *Journal of Regulatory Toxicology and Pharmacology*. 31:68-76.

**G.A. Burdock.** (1999) The line between generally recognized as safe and dietary supplements. *Proceedings of the 25<sup>th</sup> Annual Summer Meeting, July 12-16, 1999*. The Toxicology Forum, Aspen, CO.

- G.A. Burdock** and W.G. Flamm. (1999) A review of the studies of the safety of polydextrose in food. *Food and Chemical Toxicology* 37:233-264.
- G.A. Burdock.** (1998) Review of the biologic properties and toxicity of bee propolis (propolis). *Food and Chemical Toxicology* 36:347-363.
- G.A. Burdock.** (1997) *Encyclopedia of Food and Color Additives*. Volumes I-III. CRC Press, Boca Raton, FL. 3153 pp.
- G.A. Burdock.** (Ed.) (1995) *Fenaroli's Handbook of Flavor Ingredients*, Volume I - Natural Flavoring Ingredients. Third. Edition. CRC Press, Boca Raton, FL. pp. 1-350
- G.A. Burdock,** (Ed.) (1995) *Fenaroli's Handbook of Flavor Ingredients*, Volume II - Synthetic Flavoring Ingredients. Third Edition. CRC Press, Boca Raton, FL. pp. 1-990
- F. Kotsonis, **G.A. Burdock,** and W.G. Flamm. (1995). Chapter 30: Food Toxicology. In: *Toxicology: The Basic Science of Poisons*. 6<sup>th</sup> edition C.D. Klaassen (Ed.). Pergamon Press, New York. p. 909-949.
- G.A. Burdock** and R.A. Ford. (1992). Safety evaluation of dibenzyl ether as a flavoring ingredient. *Food Chemical Toxicology* 30 (7): 559-566.
- G.A. Burdock,** D.H. Pence, and R.A. Ford. (1992). Safety evaluation of benzophenone. *Food Chemical Toxicology* 29 (11): 741-750.
- G.A. Burdock.** (Ed.) (1991) *Flavor and Fragrance Materials*. Fifth Edition. Allured Publishing Corporation, Wheaton, IL.
- G.A. Burdock** and R.A. Ford. (1990) Acute oral toxicity (LD50) study in the rat with isobutyl 3-(2-furypropionate). *Acute Toxicology Data* 1(1): 1.
- G.A. Burdock** and R.A. Ford. (1990) Acute oral toxicity (LD50) study in the rat with 3-benzyl-4-heptanone. *Acute Toxicology Data* 1(1): 2.
- G.A. Burdock** and R.A. Ford. (1990) Acute oral toxicity (LD50) study in the rat with 2-methyl-3-(2-furyl) acrolein. *Acute Toxicology Data* 1(1): 3.
- G.A. Burdock** and R.A. Ford. (1990) Acute oral toxicity (LD50) study in the rat with 2-mercaptomethylpyrazine. *Acute Toxicology Data* 1(1): 4.
- G.A. Burdock** and R.A. Ford. (1990) Acute oral toxicity (LD50) study in the rat with 2,5-diethyltetrahydrofuran. *Acute Toxicology Data* 1(1): 5.
- G.A. Burdock** and R.A. Ford. (1990) Acute oral toxicity (LD50) study in the rat with 2,5-dimethylpyrole. *Acute Toxicology Data* 1(1): 6.
- G.A. Burdock** and R.A. Ford. (1990) Acute oral toxicity (LD50) study in the rat with difurfuryl ether. *Acute Toxicology Data* 1(2): 93-94.



- G.A. Burdock** and R.A. Ford. (1990) Acute oral toxicity (LD50) study in the rat with phenoxyacetic acid. *Acute Toxicology Data* 1(2): 94-95.
- G.A. Burdock** and R.A. Ford. (1990) Acute oral toxicity (LD50) study in the rat with 4,5-dimethylthiazole. *Acute Toxicology Data* 1(2): 95-96.
- G.A. Burdock** and R.A. Ford. (1990) Acute oral toxicity (LD50) study in the rat with 3-methyl-4-phenyl-3-buten-2-one. *Acute Toxicology Data* 1(2): 96-97.
- G.A. Burdock** and R.A. Ford. (1990) Acute oral toxicity (LD50) study in the rat with 3-(2-furylacrolein). *Acute Toxicology Data* 1(2): 97-98.
- G.A. Burdock**, B.M. Wagner, R.L. Smith, I.C. Munro, and P.M. Newberne. (1990) Recent progress in the consideration of flavoring ingredients under the food additives amendment. 15. GRAS substances. *Food Technology* 44(2): 78, 80, 82, 84 & 86.
- G.A. Burdock**, and R.L. Hall. (1989) Pro-active flavor safety evaluation and management. In: *Trends in Food Product Development, Seventh World Congress of Food Science and Technology, Singapore, October 1987*. A.H. Ghee, T.C. Yam and C. Tan. (Eds.). Singapore Institute of Food Science and Technology, Singapore. p. 359-366.
- G.A. Burdock**, R.A. Ford, A.M. Bottomley, and D.M. John. (1987). An evaluation of the teratogenic potential of orally administered Phenylethyl Alcohol (PEA). *The Toxicologist* 7(1): 176.
- G.A. Burdock**, R.H. Cox, S.L. Morseth, and L.W. Smith. (1986). Teratogenicity study of 4-Nitro-N-Methylphthalimide (4-NPI). *The Toxicologist* 6(1): 94.
- G.A. Burdock**, B.A. Kulwich, R.D. Alsakar, and P.M. Marshall. (1984). 90-Day dog study: Caprolactam. In *Proceedings of a Symposium on an Industry Approach to Chemical Risk Assessment: Caprolactam and related compounds as a case study*, May 15-17, 1984. Industrial Health Foundation, Pittsburgh, PA.
- J.A. Trutter, F.E. Reno, **G.A. Burdock**, and D.W. Korte, Jr. (1984). Fertility study with a candidate antimalarial drug in the rat. *Journal of the American College of Toxicology* 3:172.
- G.A. Burdock**. (1983). Diethanolamine-induced changes in liver and kidney of the neonatal rat. *The Toxicologist* 4 (1): 491.
- G.A. Burdock**, R. B. Hackett, and L.W. Masten. (1980). A comparison of hepatic microsomal enzyme induction by methadone, phenobarbital and 3-methylcholanthrene in the mouse. *Biochemical Pharmacology* 28:3476-3482.
- J.C. Kapeghian, **G.A. Burdock**, and L.W. Masten. (1980). The effect of the route of administration of microsomal enzyme induction following repeated methadone administration in the mouse. *Biochemical Pharmacology* 28:3021-3025.
- G.A. Burdock**. (1980). Some Toxic Effects of Diethanolamine in the Neonatal Rat. Doctoral Dissertation. School of Pharmacy, University of Mississippi.

**G.A. Burdock** and L.W. Masten. (1979). Diethanolamine-induced changes in the neonatal rat. *Toxicology and Applied Pharmacology* 48:A30.

J.C. Kapeghian, **G.A. Burdock**, and L.W. Masten. (1977). Effect of the route of administration on microsomal enzyme induction following repeated administration of methadone in the mouse. *Toxicology and Applied Pharmacology* 41:159.

**G.A. Burdock**, R. B. Hackett, and L.W. Masten. (1976). Dose-response relationship of oral methadone administration and liver microsomal enzyme activity. *Federation Proceedings* 35:469.

J.D. Catravas, I.W. Waters, **G.A. Burdock**, and W.M. Davis. (1975). Haloperidol and propranolol in the treatment of acute amphetamine intoxication in the dog. *Toxicology and Applied Pharmacology* 33:185.

## REPORTS

**G.A. Burdock**. (1993). High Dose Irradiation of Food. Report submitted to the Food Safety Unit, World Health Organization.

W.G. Flamm, P. Lombardo, A. Forbes, W. Nichols, J.B. Little, **G.A. Burdock**, and J.A. Flamm. (1992). Review of the wholesomeness of irradiated food. Report submitted to the Food Safety Unit, World Health Organization.

Dr. Burdock was the author of numerous technical reports while serving as a consultant and a scientist for the Flavor and Extract Manufacturers' Association, Hazleton Laboratories and American Cyanamid. The content of these reports is proprietary and confidential to the sponsoring organizations.

## EDITORIAL REVIEW

*Regulatory Toxicology and Pharmacology*. (1997 to present) Elsevier Science. Manuscript reviews.

*Journal of Agricultural and Food Chemistry*. (1998 to present ) American Chemical Society. Manuscript reviews.

*Bee World*. (1999 to present) International Bee Research Association. Manuscript reviews.

*Italian Journal of Food Science*. (1999 to present) Istituto di Industrie Agrarie, University of Perugia Manuscript reviews.

*Journal of Agricultural Research*. (1999 to present) Agricultural Research Service. Manuscript reviews.

*Food and Chemical Toxicology*. (1999 to present) Elsevier. Manuscript reviews.

*International Journal of Toxicology*. (2000 to present) Taylor & Francis. Manuscript reviews,

*Update* (2005) Food and Drug Law Institute. Editorial Board Member.



## INVITED PRESENTATIONS AND ABSTRACTS

**G.A. Burdock.** Functional Foods: Session I – Functional Foods – What are they? Who wants them? Who regulates them? 4<sup>th</sup> Inventages Life Venture Summit, Great Exuma, Bahamas, June, 2007.

**G.A. Burdock.** Functional Foods: Session II - How can Functional Ingredients be Added to Food? 4<sup>th</sup> Inventages Life Venture Summit, Great Exuma, Bahamas, June, 2007.

**G.A. Burdock.** Functional Foods – Session IV – Getting to market: Costs, timelines and frequent mistakes. 4<sup>th</sup> Inventages Life Venture Summit, Great Exuma, Bahamas, June, 2007.

**G.A. Burdock.** Practical applications of toxicology. University of Mississippi School of Pharmacy, University, MS, May, 2007.

**G.A. Burdock.** Nanotechnology and Nanotoxicology of Food and Feed Ingredients. Alltech International Feed Industry Symposium, Lexington, KY, May 23, 2007.

**G.A. Burdock.** Food and Supplement Nanotechnology. Nutracon, Anaheim, CA, March, 2007.

**G.A. Burdock.** Food Toxicology: An Applied Science. University of Florida, Nutritional Science Department. Gainesville, FL, February, 2007

**G.A. Burdock.** Nanotechnology: Implications for food and food ingredients. Annual ILSI Meeting. Cancún, México, January, 2007.

**G.A. Burdock.** Conventional Foods as “Functional Foods,” FDA Public Hearing. Washington, DC, December, 2006.

**G.A. Burdock.** Nanotechnology in Food and Nanotoxicology. Nano4Food Conference. Atlanta, GA, 2006.

**G.A. Burdock.** New Dietary Ingredient Notifications. Council of Responsible Nutrition (CRN). Boston, Mass, 2006

**G.A. Burdock.** Nanotoxicology: a small science or the (big) science of small things? Institute of Food Technologists (IFT). Orlando, FL, 2006

**G.A. Burdock.** Nutraceuticals & Functional Foods – Strategies for Moving Forward. Nestlé Foods Technical Centre. Lausanne, Switzerland, June, 2006.

**G.A. Burdock.** Qualified Health Claims: A Critical Juncture. 2005 Institute of Food Technologists Annual Meeting and Food Expo. New Orleans, LA, 2005.

**G.A. Burdock.** Why Efficacy Trials for Dietary Supplements? Association of Clinical Research Professionals 2005 Conference and Exhibition – North America. Orlando, FL. 2005.

**G.A. Burdock.** Dietary Supplements and a Method for Determining Safety and Efficacy. Botanical Dietary Supplements: Scientific Perspectives and Public Health Pitfalls Congressional Science Briefings. Washington, DC. 2005.

**G.A. Burdock** Approving Preservatives: Not a 'Natural' Process. International Symposium on Natural Preservatives in Food Systems. Princeton, NJ. 2005.

**G.A. Burdock.** Regulatory Issues and the Effect on Your Bottom Line. South Florida Regional Chapter, Institute of Food Technologists. Fort Lauderdale, FL. 2004.

**G.A. Burdock.** The Dichotomy of Structure Function Claims. Food and Drug Law Institute, Qualified Health Claims Conference. 2004.

**G.A. Burdock.** Qualified Health Claims and the Role of Independent Experts (and a few other items). 2004 Institute of Food Technologists Annual Meeting and Food Expo. Las Vegas, NV. 2004.

**G.A. Burdock.** Premarket Notification for New Dietary Ingredient Notifications, Public Meeting. Food and Drug Administration/Center for Food Safety and Nutrition. College Park, MD. 2004.

**G.A. Burdock.** Efficacy Assessment of Functional Ingredients by Independent Experts. Institute of Food Technologists. Chicago, IL. 2003.

**G.A. Burdock.** When Accidents Happen – Risk Assessment for the Processing Plant. American Meat Institute. Chicago, IL. 2003.

**G.A. Burdock.** The GRAS status of Pycnogenol®. Vitafoods International. Geneva, Switzerland. 2003.

**G.A. Burdock.** Risk Assessment at the Processing Plant. Food Safety Inspection Service, U.S. Department of Agriculture. Washington, DC. 2003.

**G.A. Burdock.** Hot Topics (Dietary Supplements). Food and Drug Law Institute, Washington, DC 2003.

**G.A. Burdock.** Overview: Nutraceuticals, Dietary Supplements and Functional Food Ingredients. American College of Toxicology 23<sup>rd</sup> Annual Meeting. Hershey, PA. 2002.

**G.A. Burdock.** Pycnogenol®. SupplySide East International Trade Show and Conference. Seacacus, NJ. 2003.

**G.A. Burdock.** When Accidents Happen – Risk Assessment for the Processing Plant. American Meat Institute, Chicago, IL July, 2002.

**G.A. Burdock.** Safety Assessment of Foods Derived From Biotech Crops. 42<sup>nd</sup> Annual Meeting of the Society of Toxicology. Nashville, TN. 2002.

**G.A. Burdock.** Dietary Supplements at a Crossroads. Food and Drug Law Institute Food Week. Washington, DC. 2002.

**G.A. Burdock.** Determining the Safety of a Dietary Supplement (Ingredient). Food and Drug Law Institute. Washington, DC. 2002.

**G.A. Burdock.** Safety Assessment of Botanicals. Worldnutra 2002 3<sup>rd</sup> Annual International Conference and Exhibition on Nutraceuticals and Functional Foods. San Diego, CA. 2002.

**G.A. Burdock.** Safety Assessment of Botanicals. ILSI Workshop on Principles for the Safety Assessment of Botanicals and Botanical Preparations in Food and Food Supplements. Marseille, France. 2002.

**G.A. Burdock.** Ephedra, Is It As Toxic As Reported? 43<sup>rd</sup> Annual Meeting of the American College of Toxicology. San Antonio, TX. 2002.

**G.A. Burdock.** The Line Between Generally Recognized As Safe (GRAS) and Dietary Supplements. Toxicology Forum, Aspen, CO. 1999.

**G.A. Burdock.** DSHEA, GRAS and Functional Foods: Regulatory and Safety Criteria. American Chemical Society. 224<sup>th</sup> ACS National Meeting. Boston, MA. 2002.

## **CONTINUING EDUCATION**

*Clinical Pathology-The Granddaddy of Biomarkers.* Society of Toxicology 44<sup>th</sup> Annual Meeting and Toxexpo. New Orleans, LA. March, 2005

*Herbals and Dietary Supplements in Athletic Performance Enhancement: Fact vs. Fiction.* Society of Toxicology 43<sup>rd</sup> Annual Meeting and Toxexpo. Baltimore, MD. March, 2004.

*The Safety Assessment of Proteins: Applications to Agricultural Biotechnology.* Society of Toxicology 43<sup>rd</sup> Annual Meeting and Toxexpo. Baltimore, MD. March, 2004.

*Choice and Application of Classical, Population or Physiologically-Based PK for Chemical Assessment and Pharmaceutical Development.* Society of Toxicology 42<sup>nd</sup> Annual Meeting and Toxexpo. Salt Lake City, UT, March, 2003.

*Medicinal Herbals and Dietary Supplements.* Society of Toxicology 42<sup>nd</sup> Annual Meeting and Toxexpo. Salt Lake City, UT, March, 2003.

*Dietary Supplement Use in the Elderly.* American College of Nutrition Continuing Education Program. NIH Campus, Bethesda, MD. January, 2003.

*International Regulatory Approval of Ingredients and Dietary Supplements.* Institute of Food Technologists Annual Meeting. Chicago, IL. July, 2003.

*Labeling of FDA Regulated Foods.* Institute of Food Technologists. Orlando, FL. February, 2001.

*Dietary Ingredients or Drugs?* Food and Drug Law Institute. Washington, DC. July, 2000.

*Reproductive Toxicology.* American College of Toxicology – 20<sup>th</sup> Annual Meeting, Washington, DC. November, 1999

## **PROFESSIONAL ACHIEVEMENT AND RECOGNITION**

Institute of Food Technologists (2006) Bernard L. Oser Food Ingredients Safety Award. Institute of Food Technologists, *Toxicology and Safety Evaluation Division*

Society of Toxicology, *Food Safety Specialty Section*, (2005 – 2006 Vice President, 2004 – 2005 Vice President-Elect).

International Society of Regulatory Toxicology and Pharmacology (2005 - 2006 President; 2004 – 2005 Past Vice-President; Councilor)

FDA Advisory Committee Member, *Additives and Ingredients Subcommittee*. 2004.