

Research Associate, Department of Pathology, Cornell University Medical College, New York City, NY, (1964,1965, during tenure of Cyanamid Award for Advanced Education). Conducted studies on ultrastructural and biochemical aspects of acetamide hepatocarcinogenesis. Audited course in general and special pathology with second year medical students.

Research Scientist, Department of Experimental Pathology, Lederle Laboratories, Pearl River, NY (1951-1967). Conducted post-mortem examinations including histopathological examinations of a variety of laboratory animals treated with candidate drugs. Served as liaison between Pathology department and Statistical department. Carried out experimental studies of hepatic carcinogenesis (identified acetamide as a hepatocarcinogen for rats). Produced more than 25 company reports on post-mortem findings in laboratory animals following exposure to candidate drugs with a variety of pharmacological and therapeutic activities --- antibiotics, glucocorticoids, psychoactive, diuretic --- some of which became marketed products (Achromycin, triamcinolone, etc.).

PROFESSIONAL MEMBERSHIPS

Charter Member, Society of Toxicology

American College of Toxicology (Councillor, 1982, Councillor, 1988).

Society of Toxicologic Pathologists

Association of Government Toxicologists (Vice President, 1986)

International Society of Regulatory Toxicology and Pharmacology

Academy of Toxicological Sciences (Secretary/Treasurer, 1987-1990)

PUBLICATIONS

Jackson, B.A. , and F.I. Dessau. 1955. Streptococcal desoxyribonuclease for the removal of Feulgen-stainable material. *Stain Technology* 30:9-11.

Dessau, F.I. and B.A. Jackson. 1956. Acetamide-induced liver cell alterations in rats. *Lab. Invest.* 4:387-397.

Jackson, B.A. 1959. Time-associated variations of mitotic activity in livers of young rats. *Anat. Rec.* 134:364-378.

Jackson, B. A., and F.I. Dessau. 1961. Liver tumors in rats fed acetamide. *Lab. Invest.* 10: 909-923.

- Jackson, B A. 1962. Statistical analysis of body weight data. *Toxicol. Appl. Pharm.* 4:423- 443
- Jackson, B.A. , and E.Bohnel. 1964. Liver mitotic rates and weights in young rapidly growing rats after serum injection. *Nature* 203:892-893.
- Jackson, B.A., and V.P. Cappiello. 1964. Ranges of normal organ weights of dogs. *Tox. Appl Pharm* 6;664-668.
- Jackson, B.A. and G.W. Richter. 1968. Disseminated yellow foci in livers of acetamide-treated rats. *Arch Pathol.* 86.142-159.
- Faherty, J F., B.A. Jackson, and M.F. Greene. 1972. Surface-staining of 1 mm (Wilson) slices of fetuses for internal visceral examination *St Technol* 47:53-58.
- Jackson, B.A., G E Tonelli, F.Chiesa, and L Alvarez. 1980. Reproductive toxicology of fenbufen. *Arzneim Forsch /Drug Research* 30:725-728.
- Jackson, B A. 1980. Safety assessment of drug residues. *J Am Vet Med. Assoc.* 176:1141-1144.
- Jackson, B A. 1981. Regulatory interpretation of proliferative lesions of rodent liver. *FDA By-Lines* 11: 1-5.
- Jackson, B.A. 1983. FDA/Bureau of Foods Teratology guidelines. *Proceeding of the Toxicology Forum, 1983 Annual Winter Meeting* pp. 420-430.
- Jackson, B.A. and N.L. Sass. 1984. A rational approach to decision making in toxicology. *Regul. Toxicol. Pharm.* 4: 130-137.
- Jackson, B.A. and R. Pertel. 1986. Regulatory implications of Ames' mutagenicity assay. *Fund. Appl. Toxicol.* 7: 1-16.
- Dua, P.N. and B.A. Jackson . 1988. Review of pathology data for regulatory purposes. *Toxicol. Path.* 16: 443-450.
- Wilcock, K.E. , A B. Santamaria, V.H. Frankos, H.W. Fisher, F. Laden, E.A. Platz, and B.A. Jackson. 1990. Perspectives on adverse reaction rats associated with the use of high osmolar ionic and low osmolar nonionic contrast media. *J. Amer. College Toxicol.* 9:563-607.
- Collins, T.F.X., T.N. Black, S.L. Graham, B.A. Jackson, and J.J. Welsh. 1991. Updating developmental toxicity testing guidelines for the safety assessment of direct food additives and color additives used in food: Results of a survey. *J. Am. College Toxicol.* 10: 461-475.

Haws, L. C., B.A. Jackson, D. Turnbull, and W.E. Dressler. 1994. Two approaches for assessing human safety of Disperse Blue 1. *Regul Toxicol Pharm* 19:80-96.

Jackson, Benjamin A. 1994. New outlook on carcinogenicity testing could create opportunities for expedited product development. *Regulatory Affairs* 6:71-78.

Jackson, Benjamin A. 1994. Evolving approach to carcinogenicity testing creates new product opportunities. *Soteros Bulletin* Issue 3 pp2-4

MAJOR REVIEWS AND BOOK CHAPTERS

Jackson, B.A. 1981. Developmental cardiotoxic effects of chemicals. Ch. 7 in *Cardiac Toxicology* Vol. III. T. Balazs, Ed. CRC Press, Inc., Boca Raton, FL, pp. 164-176.

Balazs, T., B.A. Jackson, and M. Hite. 1982. Nephrotoxicity of ethylene glycol, cephalosporins and diuretics. In *Nephrotoxicity Assessment and Pathogenesis*, John Wiley and Sons.

Hayes, A. W. and several authors including B.A. Jackson. 1982. Correlation of human hepatotoxicants with hepatic damage in animals. *Fundament. Appl. Toxicol* 2: 55-66.

Rodericks, J.V. and B.A. Jackson. 1991. Food constituents and contaminants. Ch. 9 in *Critical Reviews of Environmental Toxicants*. M. Lippman, Ed. Van Nostrand, NY.

INVITED PRESENTATIONS AND SEMINARS

1969 Albany Club of the Society of Sigma Xi "Acetamide-Induced Liver Cancers in Rats: A Light and Electron Microscopic Study."

1974 Health and Safety Laboratory, U.S. Atomic Energy Commission, "Radiomimetic Effects of Chemicals."

1975 Symposium: Drug Safety Evaluation for Teratology, Teratology Society Annual Meeting. "The Heuristic Value of Animal reproductive Studies for the Safety Evaluation of Drugs."

DHEW Committee Open Meeting on: Evaluation of Systems to Detect Mutagenic Activity of Chemicals. "Mutagenicity of Some Nitroheterocyclic Compounds."

- Third Annual International Research and Development Corporation Symposium. "Experiences in Mutagenicity Testing."
- 1976 DRUSAF East, Fall Meeting: Conference on Mutagenicity Testing. "Mutagenicity Testing at Lederle Laboratories "
- 1977 Subcommittee on Environmental Mutagenesis, DHEW Committee to Coordinate Toxicology and Related Programs "Testing of Unknown Compounds for Mutagenic Activity."
- 1979 AVMA Colloquium on Clinical Pharmacology. "Safety Assessment of Drug Residues."
- 1980 Society of Toxicology Symposium on Liver Toxicity and Neoplasia in the Rodent "Regulatory Interpretation of Proliferative Lesions of Rodent Livers."
- 1983 Tripartite Meeting. "Bureau of Foods Developmental Toxicity Guidelines, A Progress Report."
- Forum for Scientific Excellence Workshop on Skin, the Barrier, *In vitro* Assessment and Prediction Techniques "Regulatory Implications of Changes in the Information Basis for Safety Evaluation."
- Middle Atlantic Reproduction and Teratology Association Symposium. "Protocol and Report Deficiencies."
- 1988 Toxicology Forum, Winter Meeting. "Reproductive Toxicity --- Regulatory Implications."
- 1990 Symposium, Annual Meeting of American College of Toxicology. "New Venues for the Toxicologist."
- 1991 Genetic Toxicologic Association Symposium on Assessing the Safety of the Products of Biotechnology. "Animal Testing for Characterizing the Risks of Biotechnology."
- 1992 Served on NIH Chartered Committee for Developmental Therapeutics Contract.

LEGISLATIVE TESTIMONY

1983-1988 Served as Chief Scientific Adviser to FDA General Counsel's Office for Administrative Hearing on FD&C Blue No.2 and provided scientific advice to Justice Department for Appellate Case Expert witness for Administrative Hearing.

CURRICULUM VITAE
Janardan K. Reddy, M.D.

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Chicago, Illinois 60611-3008
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Home Address [REDACTED]
Evanston, IL 60202
[REDACTED]

Birth October 7, 1938, Moolasaal, India
Naturalized United States Citizen
married (Kamalesh Reddy, M.D., two children)

Social Security Number [REDACTED]

Education Collegiate High School, Hanamkonda, India, 1954
Nizam College (Osmania University), Hyderabad, India, Intermediate Science, 1956
Osmania Medical College, Osmania University, Hyderabad, M B , B S , 1961
All India Institute of Medical Sciences, New Delhi, M D., Pathology, 1965

Postgraduate Training Rotating House Officer, Osmania General Hospital, Hyderabad, India, 1961-1962
Postgraduate Student in Pathology, All India Institute of Medical Sciences,
New Delhi, 1963-1965

Fellowships Resident Fellow, Pathology, University of Kansas Medical Center, 1966-1968
Research Fellow, Pathology, University of Kansas Medical Center, 1968-1970

Professional Appointments Instructor, Pathology, Kakatiya Medical College, Warangal, India, 1962-1963
Assistant Professor, Pathology, Kakatiya Medical College, Warangal, 1965-1966
Assistant Professor, Pathology, University of Kansas Medical Center, 1970-1973
Associate Professor, Pathology, University of Kansas Medical Center, 1973-1976
Professor, Pathology, University of Kansas Medical Center, 1976
Professor, Pathology, Northwestern University Medical School, 1976-present
Director, Medical Scientist Training Program, 1990-1993
Chairman, Pathology, Northwestern University Medical School, 1993-present

Hospital Appointments Director, Anatomic Pathology, Northwestern Memorial Hospital, 1978-1981
Medical Staff, Northwestern Memorial Hospital, 1976-
Member, Northwestern University Cancer Center, 1976-
Medical Staff, VA Lakeside Hospital, 1990-

Medical Licensure and Specialty Certification

Missouri (34296), 1972
Kansas (P-231), 1972
Illinois (36-53883), 1976
American Board of Pathology, Anatomic, 1972

Professional Societies

American Association for the Advancement of Science
American Association for Pathologists
International Academy of Pathology
American Society for Cell Biology
The Histochemical Society
Society for Experimental Biology and Medicine
Society of Toxicology (President, Carcinogenesis Specialty Section 1990-91, President, Molecular Toxicology Specialty Section 1991-92)
American Association for Cancer Research
American Pancreatic Association
The Biochemical Society, London
Society of Toxicology Midwest Chapter
Society of Toxicologic Pathologists
Association of Scientists of Indian Origin in America (President 1983-84)
International Association of Pancreatology
The New York Academy of Sciences

Editorial Boards

Journal of Histochemistry and Cytochemistry, 1973-1976
Experimental Pathology, 1982-present
Toxicologic Pathology 1983-present
Journal of Toxicology and Environmental Health (Associate Editor) 1984-present
Cancer Research (Associate Editor) 1985-1990
International Journal of Pancreatology 1986-
Laboratory Investigation 1988-
Carcinogenesis 1989-
The Journal, Northwestern University Cancer Center 1990-
Gene Expression 1990-
International Journal of Toxicology, Occupational and Environmental Health, 1992-
Life Science Advances, Oncology, 1991-
Journal of Histochemistry and Cytochemistry, 1997-

Current Grants

NIGMS, GM23750, Biologic studies in the liver peroxisome proliferators. *Principal Investigator*, 7/1/97-6/30/01, \$1,057,893 budget.

NIDDK, DK37958, Identification of liver stem cells in pancreas *Principal Investigator*. 9/1/98-8/31/03 \$762,384 budget.

NIGMS, GM08152, Medical Scientist Training Program Grant, *Preceptor*, 7/1/97-6/30/02 \$1,800,512 budget.

NIEHS, ES07284, Molecular Toxicology Training Grant, *Principal Director*, 7/1/95-6/30/00, \$451,268 budget

Joseph Mayberry Endowment Fund, \$1,000,000, annual renewal

Memberships on National and International Committees

Pesticide and Insecticide Review Committee of the National Academy of Sciences, 1977
Nitrite Study Review Committee, Universities Associated For Research and Education in Pathology (UAREP), 1980
Committee to Evaluate Carcinogenic Risk of Some Pharmaceutical Drugs, World Health Organization, International Agency for Research on Cancer Lyon, France Monograph Volume 24, 1980
Monograph Committee on Pancreatic Cancer, World Health Organization, International Union Against Cancer, 1980
Special Study Section, National Institutes of Health, 1981
Member, American Institute for Cancer Research Study Section, 1985-1987
Committee to Evaluate Carcinogenic Risk of Miscellaneous Pesticides, World Health Organization, International Agency for Research on Cancer Lyon, France Monograph Volume 30, 1982
Committee to Review Carcinogenesis Bioassay Study of Methylene Chloride, a Decaffeinating Agent, 1982
Clinical Oncology Merit Review Board, Veterans Administration, Washington, D C , 1981-1983
Chemical Pathology Study Section, National Institutes of Health, 1982-1985
Chairman, Project Site Visit, NIH, 1981
Special Study Section, National Institutes of Health, 1982
Committee to Evaluate Smokeless Tobacco and Miscellaneous Carcinogens, Such as Betel Nuts, World Health Organization, International Agency for Research on Cancer, October 1984
Member 3M Life Sciences Award Committee FASEB, 1983-1988
Chairman, Project Site Visit to University of Pittsburgh, May, 1984
Member of the Subtask Force on the Molecular and Cellular Mechanisms of Environmental Injury. NIEHS Task Force III June.10-14, 1984
Member, Pancreatic Cancer Working Group of the Organ Site Coordinating Committee, NCI 1984-1989
Member, Study Section, American Institute for Cancer Research, 1985-1988
Member, Clinical Sciences Study Section, NIH 1985, 1987-1990, Chairman 1990-1991
Chairman, Special Study Section, NIH, June 18-20, 1986
Member, Project Site Visit, National Institute of Environmental Health, June 23-25, 1986
Member, Ad hoc, National Institutes of Health Metabolic Pathology Study Section, June 1987, October 1987
Monograph Committee and Chairman, Subcommittee International Agency for Research on Cancer, IARC Monograph on Carcinogenic Risk of Alcohol and Alcoholic Beverages Lyon, France, 1987
Chairman, NIH Special Study Section, August 1989, March 1990
Member, Program Committee, American Association of Pathologists (1989-1993)
Member, Program Committee, American Association for Cancer Research (1990-1991)
Committee to "Approaches to classifying carcinogens according to mechanism of action". International Agency for Research on Cancer, Lyon, France, June 11-18, 1991.
Member, Tobacco-related Diseases Program, University of California, Oncology Study Section, 1990, 1991, and Tumor Immunology and Therapy Study Section, 1992
Member, NIH Special Study Section, 1992.
Member, National Research Council, Committee on Comparative Toxicity of Naturally Occurring Carcinogens, 1993-1996
Member, National Toxicology Program Review Committee, 1992-1996
Member, Monograph Committee, "Peroxisome proliferation: association with carcinogenesis and relevance to human" WHO, International Agency on Cancer Research, Lyon, France, 1994
Member, NIH Metabolic Pathology Study Section, 1998-2001
Reviewer, NIH, NCI Intramural Programs, December 1998

Research Interests

Experimental carcinogenesis
Peroxisome proliferation-biological implications
Differentiation of pancreatic tumors
Transdifferentiation of pancreatic cells into hepatocytes
Tissue-specific gene expression and regulation
Molecular phylogeny and evolution

Honors

Merit Scholar, Osmania University, 1954-1961
Government of Andhra Pradesh Merit Scholar, 1963-1965
WHO Yamagawa-Yoshida International Cancer Fellow in Japan, March-April 1985
NIH Merit Award 1987 (GM 23750)
United Nations Development Programme-TOKTEN award to visit India (Nov, Dec 1988)
Vice-President (1989-1990) of Carcinogenesis Specialty
Society of Toxicology, 1988-1989
President, Association of Scientists of Indian Origin in America, 1983-1984
Vice-president, Molecular Toxicology Specialty Section of the Society of Toxicology, 1990-1991.
President, Molecular Toxicology Specialty Section of the Society of Toxicology (1991-1992)
Cover of Cancer Research for peroxisome proliferator-carcinogenesis, February 15, 1990
Kenneth P. Dubois Award, 1990, Society of Toxicology (Midwest Regional Chapter)
Chairman, NIH Clinical Sciences Study Section I, July 1990-June 1991
President (1990-1991) Carcinogenesis Specialty Section, Society of Toxicology (SOT)
American Pancreatic Association State of the Art 1990, Lecture on "Stem cells in Pancreas" at the Annual Meeting on November 8, 1990.
Senior Scientist Award for Outstanding Contributions to Science Association of Scientists of Indian Origin in America, 1991
Plenary Lecture, Annual Meeting of the Histochemical Society, Washington DC, May 1992
The Fletscher Scholar Award, 1991
Mayberry Endowment Researcher, 1991-94
George H Joost Outstanding Basic Science Teacher, 1995
Elected Fellow, American Association for the Advancement of Science, 1996-

Administrative, and Medical School and University Committees

Director, Anatomic Pathology Service, Northwestern Memorial Hospital, 1978-1981
Member, Executive Faculty, Dept of Pathology, 1987-present
Member, Faculty Appointments and Promotions Committee, 1979-1984
Member, Animal Care Committee, 1977-1981
Medical Student Short-term Research Training Program, 1980-1983
Pathology Graduate Program, 1976-1982
Toxicology and Pathology Training Program, 1982-present
Residency Recruitment Committee, 1976-present
Tumor Biology Training Program, 1980-present
Pharmacology Training Program, 1984-present
Member, Children's Hospital, Pathology Chief Search Committee, 1985-1986
Member, Research Safety Committee, 1985-1989
Chairman, Internal Review Committee of the Dept of Pathology, 1986-1987
M.D.-Ph.D Program, Member Steering Committee 1988-1990
Member, Surgery Dept Review Committee of the University 1988-1989
Chairman, Blood Bank Director Search Committee, 1988-1989
Director, M.D./Ph.D Training Program, Northwestern University, 1990-1992
Member, Search Committee for Director of Developmental Biology, Northwestern University Medical School, 1989-
Member, Interdisciplinary Graduate Program Reorganization Committee, Northwestern University Medical School, 1989-
Member, Research Space Committee, Medical School, 1990-1992
Member, Program Review Committee, Northwestern University, 1990-1993
Member, Medical Student Research Committee, 1990-1992
Chairman, Program Review Subcommittee to review Department of Anesthesia, 1991.
Group Leader, Chemical Carcinogenesis, Research Group, NU Cancer Center, 1990-1993
Associate Director, Cancer Education, NU Cancer Center, 1991-present
Member, Research Council, Medical School, 1990-1994
Member, The Task Force on An Environmental Science/Policy Initiative, Northwestern University, 1991-present
Member, Search Committee, Dean of NU Medical School, 1996-1997
Member, Search Committee, Executive Associate Dean for Education, 1997-1998
Member, Search Committee, Surgery Chair, 1997-1999
Member, Search Committee, Genetics Chair, 1997-1999

INTERNATIONAL AND NATIONAL SYMPOSIA AND WORKSHOP PARTICIPATIONS (Excluding visiting professorships)

1. Invited speaker on the "Possible properties of microbodies (peroxisomes), microbody proliferation and hypolipidemic drugs" at the Symposium on "Peroxisomes" organized by the Histochemical Society on April 14, 1973, 24th Annual Meeting, Atlantic City, NJ.
2. Invited speaker on "Hepatic peroxisome proliferation", Symposium on "Peroxisomes and 3,3'-diamino-benzidine cytochemistry", 5th International Congress of Histochemistry and Cytochemistry, Bucharest, Romania, August 30-September 4, 1976.
3. Invited speaker on "Induction of hepatic peroxisomes and peroxisome-associated enzymes an evaluative test for hypolipidemic compounds", International Conference on Atherosclerosis, Milan, Italy, November 9-12, 1977.
4. Invited speaker on "Experimental pancreatic carcinogenesis on the pancreatic cancer", Panel at the 12th International Cancer Congress, Buenos Aires, Argentina, October 4-11, 1978
5. Invited speaker on "The hepatic effects of hypolipidemic peroxisome proliferators", Colloquium on "Drugs Affecting Lipid Metabolism", New York, NY, April 11, 1979
6. Invited workshop member of "Animal tumor model workshop", National Pancreatic Cancer Project, New Orleans, LA, October 4, 1979.
7. Invited workshop monograph committee member, "The evaluation of carcinogenic risk of chemicals to man: pharmaceutical agents", International Agency for Research on Cancer, WHO, Lyon, France, February 19-27, 1980 IARC Monographs, Volume 24
8. Invited speaker on "Pancreatic Cancer", International Conference, New Orleans, LA, March 10-11, 1980.
9. Invited speaker on "Peroxisome proliferation induced by hypolipidemic drugs and carcinogenicity", 7th International Symposium on drugs affecting lipid metabolism, Milan, Italy, May 28-31, 1980
10. Invited to participate in a workshop on "Pancreatic Cancer", International Union Against Cancer, Geneva, Switzerland, October 6-10, 1980
11. Invited speaker on "The carcinogenicity of lipid lowering drugs", at the Food and Drug Administration's Subcommittee Hearings, April 6, 1981.
12. Invited speaker on "Plasticizers and peroxisome proliferation", at the International Conference on Industrial Phthalate Ester Plasticizers, Washington, DC, June 9-11, 1981
13. Invited speaker at International Conference on Peroxisomes and Glyoxysomes, New York Academy of Sciences, September 9-11, 1981.
14. Invited speaker at Conference on Lipid Pharmacology, The Biochemical Society, Lancaster, England, September 17, 1981.
15. Chair the scientific session on "Lipid and fatty acid metabolism", in New Orleans, LA, on April 23, 1982.
16. Speaker "Models available for study of pancreatic cancer", at the FASEB meetings by the National Pancreatic Cancer Project in New Orleans, LA, on April, 22, 1982.
17. Invited monograph committee member, "Carcinogenic risk of miscellaneous pesticides", International Agency for Cancer Research, WHO, Lyon, France, June 15-22, 1982.
18. Invited speaker on "The effect of lipid lowering drugs on peroxisomes and mitochondria", at the Gordon Research Conference on Energy Utilization in Biological Systems, August 9-11, 1982.

19. Invited speaker "Workshop on Phthalate Esters" organized by Chemical Manufacturers Association, Washington, D C , October 25-26, 1983.
20. Invited speaker Society of Toxicology course on "Cancer", Atlanta, Georgia, March 12, 1984.
21. NIEHS Sub-Task Force on Molecular Aspects of Cell Injury, June 9-13, 1984 Research Triangle Park, NC.
22. Invited speaker, Gordon Research Conference on Toxicology and Safety Evaluation, July 26-30, 1984.
23. Invited speaker, International Phthalate Ester Conference, University of Surrey, England, August 7, 1984.
24. Invited speaker, Symposium on "Peroxisomes and Lipid Metabolism," Third International Congress on Cell Biology, Tokyo, Japan, August 29, 1984
25. Invited speaker, Symposium on Peroxisome Biogenesis at the International Conferences on Membrane Biogenesis and Recycling" Shizuoka, Japan, September 3, 1984
26. Invited Monograph Committee Member IARC, Lyon, France, October 1984 on "Smokeless tobacco, betel quid and tobacco chewing and related habits."
27. Invited speaker, Toxicology Forum, Washington, D C , February 18, 1985 on "Role of peroxisome proliferation in carcinogenesis."
28. Invited speaker, Long Course on "Liver Diseases" International Academy of Pathology, Toronto, Canada, March 13, 1985 on "Hepatic ultrastructure and adaptation."
29. Invited speaker, Conference of National Institute of Basic Biology, Okazaki, Japan, March 16, 1985 on "Transdifferentiation of hepatocytes in rat pancreas "
30. Co-Organizer, NIH CPA-Pathology B Study Sections Workshop on "Molecular Biology and Cancer" Keystone, Colo. June 22, 1985
31. Invited speaker, UAREP Conference on Tumor Promotion, Aspen, CO, July 18-24, 1985.
32. Invited Member, Dahlem Konferenzen Workshop on "Mechanisms of Cell Injury. Implications for Human Health". Berlin, West Germany October 20-25, 1985.
33. Invited speaker, European Toxicology Society Conference on Mouse Liver Tumors, Rome, Italy, Feb. 3-7, 1986.
34. Invited speaker, International Conference on Peroxisomes, Heidelberg, Germany, July 14-18, 1986.
35. Invited speaker, Gordon Research Conference on Drug Metabolism, July 22-25, 1986
36. Invited speaker, ASPET Symposium on Non-mutagenic carcinogens. August 17, 1986.
37. Invited speaker, and Member International Advisory Board, Conference on Non-mutagenic Carcinogens, Surrey, England, September, 1986.
38. Invited speaker, Conference on Subcellular Organelles, Surrey, England, September, 1986.
39. Invited speaker, 2nd International Conference on Anti-carcinogenesis and radioprotection, March 9-12, 1987; Gaithersburg, MD.
40. Invited speaker, Aspen Cancer Conference, Aspen, Colorado, July 18-23, 1987
41. Chairman and organizer of a one day session on "peroxisome proliferators" at the Gordon Research Conference on

Mechanisms of Toxicity, July 27-Aug 1, 1987

42. Invited speaker International Union of Pharmacol Congress, Sidney, Australia, Aug 27-Sept 3, 1987
43. Invited speaker, 28th Congress of European Society of Toxicology, 17-19, September, 1987, Strassbourg, France.
44. Invited workshop participant and subcommittee chairman on IARC, WHO, Monograph on "Carcinogenic risk of Alcohol and Alcoholic Beverages", Lyon, France, Oct 13-20, 1987
45. Invited speaker at Society of Toxicology symposium on "Correlation between morphologic and functional changes induced by xenobiotics is every induced change a sign of toxicity?" Dallas, Texas, Feb 16, 1988 "Differential induction and regulation of peroxisomal enzymes"
46. Invited speaker at U S -Japan Cooperative Cancer Research Program symposium on "Glutathione S-transferases and chemical hepatocarcinogenesis", held March 22-25, 1988, Honolulu, Hawaii
47. Invited speaker, FASEB Summer Conference on Liver Carcinogenesis, Copper Mountain, CO (Aug 14-29, 1988).
48. Invited speaker, Pancreas Cancer Working group on Regulation of Growth and Differentiation in Pancreatic cancer Sept. 19-20, 1988, Bethesda, MD.
49. Pluto Club Meeting, Ixtapa, Mexico, Nov 10-13, 1988
50. United Nations, TOKTEN Scholar to India, Nov 18-Dec 28, 1988
51. Invited speaker United States-Japan Cooperative Cancer Research Program Symposium, Pancreatic Carcinogenesis, Honolulu, Hawaii, February 20-24, 1989
52. Invited Speaker ICI Special Conference on Peroxisomes, June 16-21, 1989, English Lake District, Manchester, England.
53. Invited speaker International Conference on Liver, Bari, Italy, June 19-26, 1989
54. Invited speaker UK Biochemical Society Symposium on Peroxisome Proliferators, University of Surrey, Surrey, England, July 11-14, 1989.
55. Invited speaker. Gordon Research Conference on Cell Differentiation and Neoplasia, August, 1989.
56. Invited speaker. International Conference on Neoplasia, NIEHS, Research Triangle Park, NC, September 11-15, 1989.
57. Invited speaker: NIH Workshop, Applications of Homologous Recombination to Human Diseases, Bethesda, MD, November 6-8, 1989.
58. Invited speaker International Conference on Biological Oxidation Mechanisms, Bangalore, India, October 22-26, 1989.
59. Invited speaker, Society of Toxicology, Symposium on Peroxisome Poliferation and Toxicological Evaluation, Miami Beach, Florida, February 14, 1990.
60. Invited speaker, Aspen Cancer Conference, "Nongenotoxic mechanisms of cancer. Aspen, CO, July 22-25, 1990.
61. Invited speaker, FASEB Summer Conference on Liver Cell Regeneration and Neoplasia. Copper Mountain, Colorado, July 27-31, 1990.
62. Co-chairman, Panel Discussion on "Carcinogens with insufficiently defined mechanisms of action", 15th International Cancer Congress, Hamburg, Germany, August 16-22, 1990.

63. Invited speaker, 11th Annual Meeting of the American College of Toxicology, symposium on "Toxicologic Pathology of Peroxisome Proliferators " Orlando, FL , October 29-31, 1990
64. State of the Art Lecture entitled "Stem Cells in Pancreas" at the 1990 Annual Meeting of the American Pancreatic Association, November 8, 1990, Chicago, IL
65. Invited speaker, Pharmaceutical Society of Japan, 11th Annual Meeting, Tokyo, Japan, March 28-31, 1991.
66. International Agency for Research on Cancer, WHO, Lyon, Member Committee "Approaches to classifying chemical carcinogens according to mechanism of action", 1991.
67. Invited speaker, NIH Conference on "Hepatic Stem Cell Compartment Activation and Lineage Commitment", Bethesda, Maryland, December 9-10, 1993.
68. Invited speaker, British Society of Toxicological Pathologists meeting on "Enzyme Induction, Metabolism and Kinetics-- Impact on Toxicological Pathology, April 15, 1994, London, England
69. Organizer, symposium on "Peroxisomes", Joint Meeting of the Japan-U S Histochemical Societies, Maui, Hawaii, July 12-15, 1994
70. Invited speaker, FASEB Summer Conference on "Hepatocytes and Hepatic Cancer", Copper Mountain, Colorado, August 17-22, 1994
71. Invited speaker, International Cancer Congress, New Delhi, India, October 31-November 4, 1994.
72. Organizer, symposium entitled "Novel Mechanisms of Carcinogenesis", International Cancer Congress, New Delhi, India, October 31-November 4, 1994.
73. A L Bortree Lecturer, "Mechanisms of Peroxisome Proliferator-Induced Pleiotropic Responses", Department of Veterinary Science, Pennsylvania State University College of Agricultural Sciences, April 24, 1995.
74. Organizer, International Symposium on "Peroxisomes Biology and Role in Toxicology and Disease", to be held in Aspen, Colorado, June 28-July 2, 1995.
75. Invited Speaker, Bethesda Workshop, September 27-28, 1995
76. Invited Speaker, "Peroxisome proliferators, PPAR, and hepatocarcinogenesis", Environmental Toxicology Center, University of Wisconsin-Madison, November 16, 1995
77. Invited Speaker, "Why search for liver stem cells in the rat pancreas?" US/Japan Symposia on Stem Cells and Carcinogenesis, Oahu, Hawaii, December 1-2, 1995
78. Invited Speaker, "Peroxisome proliferator induced pleiotropic responses " Center for Human Toxicology, University of Utah, April 29, 1996
79. Invited Speaker, "Peroxisome proliferator-induced pleiotropic responses Transgenic and knock-out mouse model " Minisymposium on "Peroxisome", Xth International Congress of Histochemistry and Cytochemistry, Kyoto, Japan, August 18-23, 1996.
80. Invited Speaker, "Putative stem cells in the pancreas", 1996 Comfort Symposium on Pancreatic Carcinogenesis, Mayo Foundation, September 12, 1996
81. Invited Speaker, NIH Stem Cell Meeting, Bethesda, MD, December 1996.
82. Invited Speaker, "Perspectives on peroxisome proliferation: pursuit of a phenomenon", Department of Pathology, University of Alabama at Birmingham, February 20, 1997.

83. Invited Speaker, "Peroxisome proliferator-activated receptors (PPARs), PPAR-interacting proteins, and peroxisome proliferator response elements (PPREs) in peroxisome proliferators-induced pleiotropic responses Society of Toxicology Annual Meeting, Cincinnati, OH, March 9-13, 1997.
84. Invited Speaker, "Putative stem cells in the pancreas", Prostate Research Group, Case Western Reserve University, Cleveland, OH, May 22-23, 1997.
85. Invited Speaker, "Mechanisms of peroxisome proliferator-induced carcinogenesis", 2nd World Congress on Advances in Oncology, Athens, Greece, October 16-18, 1997.
86. Invited Speaker, "PPAR-mediated responses: Upstream and downstream mechanisms, International Symposium/CREST Research Conference, Fukuoka, Japan, March 12-14, 1998
87. Invited Speaker, "Peroxisomal fatty acyl-CoA oxidase gene targeting", ASIP Annual Meeting/Experimental Biology '98, San Francisco, April 20, 1998
88. Invited Speaker, "Peroxisomal activation: Its physiological and pathological consequences", 8th International Congress of Toxicology, Paris, France, July 5-9, 1998
89. Invited Speaker, "Hepatocellular responses in PPAR α and fatty acyl-CoA oxidase double knock-out mice"; FASEB Summer Research Conference, Snowmass, CO, July 11-16, 1998
90. Invited Speaker, "PPAR coactivators", 12th International Symposium on Microsomes and Drug Oxidations, Montpellier, France, July 20-24, 1998
91. Co-Chair, "Peroxisomes: Functions, Biogenesis, and Proliferation", "5th Joint Meeting Japan Society for Histochemistry and Cytochemistry and The Histochemical Society, San Diego, CA, July 23-26, 1998.
92. Invited Speaker, "Peroxisomal alterations in mice deficient in PPAR α and acyl-CoA oxidase", 5th Joint Meeting Japan Society for Histochemistry and Cytochemistry and The Histochemical Society, San Diego, CA, July 23-26, 1998.
93. Invited Speaker, "Peroxisome proliferator-activated receptors and β -oxidation", University of Texas Southwestern Medical School, Dallas, TX, December 15, 1998
94. Invited Speaker, " Peroxisome proliferator-activated receptors and β -oxidation", NIH, NCI, Laboratory of Human Carcinogens, January 15, 1999.
95. Invited Participant, "PPAR coactivators", session on "The PPARs: Transcriptional Links to Obesity, Diabetes and Cardiovascular Disease" Keystone Symposia on Molecular and Cellular Biology, Colorado, April 28-May 1, 1999.

PUBLICATIONS

- 1 Reddy, J Testicular changes in experimental protein malnutrition A study of rhesus monkeys and albino rats. Thesis submitted in partial fulfillment of requirement of the M D degree in Pathology to All India Institute of Medical Sciences, New Dehli, India, 1965 Thesis Advisor Professor H D Tandon
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EDUCATION

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1977	S M	Harvard University, Cambridge, MA
1976	B S	Loyola University, Los Angeles, CA

PROFESSIONAL EXPERIENCE

1991-present	California Environmental Protection Agency Office of Environmental Health Hazard Assessment – Chief, Reproductive and Cancer Hazard Assessment Section
1988-1991	California Department of Health Services Reproductive and Cancer Hazard Assessment Section – Acting Section Chief (1990-1991) – Chief, Cancer Unit (1989-1990) – Staff (1988-1989)
1986-1988	California Public Health Foundation
1984-1986	Harvard University – Postdoctoral Research Associate, Physics Department (1984-1986) – Research Assistant, Energy and Environmental Policy Center (1981-1984) – Teaching Fellow, Division of Applied Sciences (1980-1983)
1978-1980	U.S. Environmental Protection Agency, Washington, DC Office of Water and Waste Management, Effluent Guidelines Division – Environmental Scientist

STANDING ADVISORY COMMITTEES AND OTHER SERVICE

Institute of Medicine/National Academy of Sciences

- Committee on Herbicide Exposure Assessment for Vietnam Veterans (1996-Present)
- Committee on Strategies to Protect the Health of Deployed U S Forces (1999-2000)

National Research Council/ National Academy of Sciences

- Committee on Risk Characterization (1994-1996)
- Committee on Comparative Toxicology of Naturally Occurring Carcinogens (1993-1996)
- Committee to Review the EPA's Maximum Contaminant Level Goal for Copper in Drinking Water (1999-2000)

US Environmental Protection Agency (US EPA) Science Advisory Board, Member

- Environmental Health Committee (1995-present)
- Integrated Risk Project (1996-1997)

US EPA Science Advisory Board, Consultant

- Clean Air Act Scientific Advisory Committee (1992)
- Environmental Health Committee (1994-1995)
- Environmental Engineering Committee (1997)
- FIFRA Science Advisory Panel (1999)

US EPA Board of Scientific Counselors

- Risk Assessment Subcommittee of the Particulate Matter Subcommittee (1999)

US EPA, Ad Hoc Advisory Committees

- Alpha-2U-Globulin Association with Renal Toxicity and Neoplasia in the Male Rat (1990)
- Ad Hoc Expert Consensus Panel on NTP Testing Protocols (1992)
- 2,3,7,8-TCDD Dose Response (1997)
- Carcinogenic Effects of Benzene An Update (1997)
- Risk Characterization Guideline (1999)

Office of Technology Assessment, United States Congress

- Advisory Panel on Risk Assessment Research (1992-1993)
- Advisory Panel on Technologies for Testing and Review of Chemicals in Commerce (1995-1996)

National Toxicology Program, Board of Scientific Counselors

- Technical Reports Peer Review Subcommittee (1989-1993)
- Ad Hoc Working Group for the Review of the Criteria for Listing Substances in the Biennial Report on Carcinogen (BRC) (1995)

Consortium for Risk Evaluation with Stakeholder Participation Environmental and Occupational Health Sciences Institute

- Peer Review Committee (1995-Present)

Harvard University, School of Public Health, Harvard Center for Risk Analysis

- Member, Advisory Committee (1990-1993)

California Comparative Risk Project

- Chair, Human Health Committee (1992-1994)

World Health Organization, International Agency for Research on Cancer
– Advisor, Scientific Principles of Quantitative Estimation and Prediction of Carcinogenic Risks to Humans (1993-1998)

Society of Risk Analysis
– Editorial Board, *Risk Analysis* (1989-present)
– *Councilor* (1998-2000)

International Life Sciences Institute (ILSI)/US EPA
– Working Group on Dose Selection for Chronic Toxicity Testing (1987)
– ILSI/US EPA Cooperative Agreement, Ad Hoc Committee (1991)
– Working Group on Cancer Dose Response Modeling (1991-1992)
– Working Group on Cumulative Risk Assessment (1998-1999)

State of Arizona, Department of Environmental Quality
Human Health Effects Committee (1990)

Universite de Metz
Centre des Sciences de l'Environnemente
Doctoral Thesis Committee Frederic Bois
Thesis Topic. The use of mechanistic and pharmacokinetic models in risk assessment (1989)

World Health Organization, International Program of Chemical Safety
Faculty - Risk Assessment Seminar, University of London (1988-1989)

US Federal Trade Commission, Washington, DC
– Expert Witness (1988)

SOCIETIES

Tau Beta Pi, Loyola University Chapter, 1976
Alpha Sigma Nu, National Jesuit Honor Society, 1976
Society of Risk Analysis (Member, Fellow, Editor, Councilor)
Society of Toxicology, Full Member
Member, Northern California Chapter of the Society for Risk Analysis
American Geophysical Union
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REVIEWER OF GRANT PROPOSALS FOR.

National Toxicology Program
Institute of Medicine/National Academy of Sciences
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BOOK CHAPTERS/BOOKS.

National Cancer Institute *Health Effects of Exposure to Environmental Tobacco Smoke The Report of the California Environmental Protection Agency Smoking and Tobacco Control Monograph no 10* Bethesda, MD U S Department of Health and Human Services, National Institutes of Health, National Cancer Institute, NIH Pub. No. 99-4645, 1999 (editor-in-chief)

L Zeise, E Cardis, K Hemminki, M Schwartz Quantitative Estimation and Prediction of Cancer Risk Review of Existing Activities In Moolgavkar S, Krewski D, Zeise L, Cardis E, Moller H (Eds) *Quantitative Estimation and Prediction of Carcinogenic Risk to Humans*, International Agency for Research on Cancer Scientific Publications, No 131, IARC, World Health Organization, Lyon, 1999

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S Moolgavkar, A Woodward, D Krewski, E Cardis, L Zeise Future Perspectives, Unresolved Issues, and Research Needs In. Moolgavkar S, Krewski D, Zeise L, Cardis E, Moller H (Eds.) *Quantitative Estimation and Prediction of Carcinogenic Risk to Humans*, International Agency for Research on Cancer Scientific Publications, No 131, IARC, World Health Organization, Lyon, 1999

Institute of Medicine (IOM) *Scientific Consideration Regarding a Request for Proposals for Research Characterizing Exposure of Veterans to Agent Orange and Other Herbicides Used in Vietnam* IOM Committee on the Assessment of Wartime Exposure to Herbicides in Vietnam, Division of Health Promotion and Disease Prevention, National Academy Press, Washington, DC, 1997 (co-author)

A Dunn, L Zeise (Eds) *Health Effects of Exposure to Environmental Tobacco Smoke* California Environmental Protection Agency, Office of Environmental Health Hazard Assessment, Sacramento, CA, 1997.

National Research Council (NRC). *Understanding Risk Informing Decisions in a Democratic Society* NRC Committee on Risk Characterization, Commission on Behavioral and Social Sciences and Education, National Academy Press, Washington, DC, 1996 (co-author)

National Research Council (NRC) *Carcinogens and Anticarcinogens in the Human Diet*. NRC Committee on Comparative Toxicity of Naturally Occurring Carcinogens. National Academy Press, Washington, DC, 1996 (co-author)

International Agency for Research on Cancer (IARC). *The Role of IARC in Quantitative Estimation and Prediction of Human Risk of Cancer* IARC Internal Report No 94/004. IARC, Lyon, 1984 (co-author)

L Zeise. Assessment of carcinogenic risks in the workplace In MC Smith, DC Christiani, KT Kelsey (Eds), *Chemical Risk Assessment and Occupational Health: Current applications, limitations and future prospects* Auburn House, Westport, Connecticut, 1994

L Zeise, AG Salmon, T McDonald, P Painter. Cancer Potency Estimates for Urethane In AG Salmon and L Zeise (Eds), *Risks of Carcinogenesis from Urethane Exposure*, CRC Press, Boca Raton, 1991.

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M Sandy, AG Salmon, L Zeise Mode of Action of Urethane Tumorigenesis In AG Salmon and L Zeise (Eds), *Risks of Carcinogenesis from Urethane Exposure*, CRC Press, Boca Raton, 1991

AG Salmon, P Painter, AJ Dunn, A Wu-Williams, L Monserrat, L Zeise Carcinogenic Effects In AG Salmon and L Zeise (Eds), *Risk of Carcinogenesis from Urethane Exposure*, CRC Press, Boca Raton, 1991.

M Sandy, AG Salmon, L Zeise Mode of Action of Urethane Tumorigenesis In AG Salmon and L Zeise (Eds), *Risks of Carcinogenesis from Urethane Exposure*, CRC Press, Boca Raton, 1991

AG Salmon, D Landy and L Zeise, Pharmacokinetics and Metabolism In AG Salmon and L Zeise (Eds), *Risks of Carcinogenesis from Urethane Exposure*, CRC Press, Boca Raton, 1991

L Zeise, *Surrogate Measures of Human Cancer Risks*, Ph D Dissertation, Harvard University, 1984

PUBLICATIONS

A Dunn, L Zeise (Eds) Health Effects of Exposure to Environmental Tobacco Smoke *Tobacco Control* 6:346-353, 1997

FY Bois, A Gelman, J Jiang, DR Maszle, L Zeise, G Alexeeff Population toxicokinetics of tetrachloroethylene *Arch Toxicol* 70 347-355, 1996

J Collins, J Brown, P Painter, L Zeise, G Alexeeff, M Wade, D Siegel, J Wong Comment on the Oral Carcinogenicity of Cadmium *Regulatory Toxicology and Pharmacology* 23 298-299, 1996

AG Salmon, KW Kizer, L Zeise, RJ Jackson, MT Smith Potential Carcinogenicity of Chloral Hydrate A Review. *Journal of Toxicology - Clinical Toxicology*, 33(2).115-121, 1995

FY Bois, G Krowech, L Zeise. Modeling Human Interindividual Variability in Metabolism and Risk The Example of 4-Aminobiphenyl *Risk Analysis*, 15(2) 205-213, 1995

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BG Reigner, RA Gungon, FY Bois, L Zeise Pharmacokinetic Concepts in Assessing Intake of Pentachlorophenol by Rats after Exposure through Drinking Water. *Journal of Pharmaceutical Sciences*, 81(11):1113-1118, 1992.

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K Watanabe, F Bois and L Zeise Interspecies Extrapolation: A Reexamination of Acute Toxicity Data *Risk Analysis*, 12(2) 301-310, 1992

JE Huff, AG Salmon, NK Hooper and L Zeise Long-Term Carcinogenesis Studies on 2,3,7,8-Tetrachlorodibenzo-*p*-Dioxin and Hexachlorodibenzo-*p*-Dioxins *Cell Biology and Toxicology*, 7(1) 67-94, 1991.

AG Salmon, L Zeise, P Painter and D Landy Consistent Estimates of Urethane Carcinogenic Potency Using Pharmacokinetic and Time-Dependent Models *Advances in Risk Analysis*, 9 469-484, 1991

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L Zeise, P Painter, PE Berteau, AM Fan and R Jackson Alar in Fruit: Limited Regulatory Action in the Face of Uncertain Risks *Advances in Risk Analysis*, 9 275-284, 1991.

FY Bois, L Zeise and TN Tozer Precision and Sensitivity of Pharmacokinetic Models for Cancer Risk Assessment: Tetrachloroethylene in Mice, Rats, and Humans *Toxicology and Applied Pharmacology*, 102 300-315, 1990.

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CC Willhite, VH Fern and L Zeise Route-Dependent Pharmacokinetics, Distribution, and Placental Permeability of Organic and Inorganic Selenium in Hamsters *Teratology*, 42 359-371, 1990

WS Pease, L Zeise and A Kelter. Risk Assessment for Carcinogens under California's Proposition 65 *Risk Analysis*, 10(2) 255-271, 1990

F Bois, TN Tozer, L Zeise and L Benet. Application of Clearance Concepts to the Assessment of Exposure to Lead in Drinking Water *American Journal of Public Health*, 79(7) 827-831, 1989

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L Zeise, R Wilson and EAC Crouch. Dose Response Relationships for Carcinogens: A Review *Environmental Health Perspectives*, 73 259-308, 1987

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L Zeise, EAC Crouch and R Wilson. A Possible Relationship between Toxicity and Carcinogenicity *J American College Toxicology*, 5(2) 137-151, 1986

R Wilson, EAC Crouch and L Zeise Uncertainty in Risk Assessment In DG Hoel, RA Merrill and FP Perera (Eds), *Risk Quantitation and Regulatory Policy, Banbury Report 19* 133-145, 1985.

L Zeise, EAC Crouch and R Wilson Reply to Comments On the Relationship between Toxicity and Carcinogenicity *Risk Analysis*, 5(4), 265-270, 1985

E Hakanoglu, MB Fiering, EAC Crouch, R Wilson and L Zeise Prioritization of Chemical Carcinogenesis Testing - The Use of Production Data *Civil Engineering Systems*, 2 84-96, 1985

MB Fiering, R Wilson, E Kleiman and L Zeise Statistical Distribution of Health Risks *Civil Engineering Systems*, 1 129-138, 1984

L. Zeise, R Wilson and EAC Crouch. Use of Acute Toxicity to Estimate Carcinogenic Risk *Risk Analysis*, 4(3) 187-199, 1984

EAC Crouch, R Wilson and L Zeise The Risks of Drinking Water *Water Resources Research*, 19(6) 1359-1375, 1983

MEETINGS PRESENTATIONS/ABSTRACTS/PROCEEDINGS

"Harmonization of Cancer and Non-Cancer Risk Assessment," Dose-response workgroup participant, Society of Toxicology, Contemporary Concepts in Toxicology series, Arlington, Virginia, November 1-3, 1999 (invited)

"Perspectives from *Understanding Risk*" and workshop facilitator on stakeholder issues at US EPA Science Policy Council Workshop "Planning and Scoping for Cumulative Risk Assessment," Washington, DC, June 16-18, 1999. (invited)

P Botham, J Chambers, E Kenyon, HB Matthews, L Sultatos, C Van Pelt, L Zeise, E Faustman, B Mileson, "Report of the Toxicology Breakout Group " In: B Mileson, E Faustman, S Olin, PB Ryan, S Ferenc, T Burke, *A Framework for Cumulative Risk Assessment, An ILSI Risk Science Institute Workshop Report*, International Life Sciences Institute, ILSI Press, 1999.

"Policy choices expressed in EPA's proposed cancer risk assessment guidelines," at Risk Assessment and Policy Association, Second Biennial Meeting, March 26, 1999, Alexandria, Virginia (invited)

"Practice and use of risk assessment in public health decision-making" at workshop "Health risks in pluralistic democracies. assessment, perception and management Which lines of research should be pursued?" Paris, December 1, 1998 (invited)

"Future research to improve benzene risk assessment and risk management, California EPA perspective " Benzene State of the Science Workshop, University of Ottawa, Institute of Population Health, December 17, 1998. (invited)

"Proposition 65 Advances," Forum of State and Tribal Toxics Action meeting, US EPA Washington, DC, March, 1998 (invited)

"Prop 65 Science Second Decade" February 20, 1998, at Prop 65 News Conference "Prop 65 Going National or Going Away?" San Francisco, CA (invited)

Coauthor "Environment and Human Exposure Assessment" in "State of the Science White Paper in Support of the Chemical Industries Long Range Research Initiative" Proceedings/white papers published January 1998 Consensus meeting Research Triangle Park, NC, Chemical Industry Institute of Toxicology, November, 1997. (invited)

"Risk Assessment", October 24 1997 course lecture, "Occupational and Environmental Medicine IV," San Francisco, CA (invited)

"Statistical Issues in Hazard Identification and Dose Response Assessment," August 13, 1997, Joint Statistical Meetings, Anaheim, CA (invited)

"Health Effects of Environmental Tobacco Smoke", September 15, 1997, California Coalitions, Oakland, CA (invited)

"Health Risks of Exposure to Environmental Tobacco Smoke," October 8, 1997, at Health Risk Assessment Current issues, 10th Annual Symposium, International Society for Risk Analysis, Monterey, CA. (invited)

TA McDonald, L Zeise, D Ting, LA Wisniewski and RA Becker, "A Comprehensive review of California's Risk Assessment Practices. Findings and Recommendations of The Risk Assessment Advisory Committee " *The Toxicologist* 36 166, 1997

D Ting, TA McDonald, R Becker and L Zeise, "Consistencies and Inconsistencies Between Cal/EPA and US EPA Toxicity Values " *The Toxicologist* 36 166, 1997

L Zeise, D Ting and TA McDonald, "Potential Impact of Proposed US EPA Default Procedures On Carcinogen Dose-Response Evaluations In California". *The Toxicologist* 36 166, 1997

"Scientific Criteria for Establishing NSRLs and NOELs by The Expedited Methodology" presented at the Round Table Discussion "Proposition 65 What's Happening to the Science? March 12, 1996, Society of Toxicology Annual Meeting, Anaheim, CA (invited)

AG Salmon, M Sandy, L Zeise, "Categorical versus narrative carcinogen classification systems" Society of Toxicology Annual Meeting, Anaheim, CA *Toxicologist* 30 3. 1996.

L Lee, S Hoover, E Shockett, L Tascheck, M Sandy, J Donald, J Morgan, L Zeise, "Development of a tracking database for candidate agents under Proposition 65" Society of Toxicology Annual Meeting, Anaheim, CA. *Toxicologist* 30 151.

JP Brown, AG Salmon, RA Howd, F Bois, L Zeise, "Use of pharmacokinetic modeling in cancer risk assessment for regulatory purposes," SOT 1996 annual meeting, *Toxicologist* 30 114

Sessions Chair "The Netherlands Approach to the Management of Major Hazard Industries" and "A Risk Based Approach to the Protection of River Systems" at International Case Studies in Risk Assessment and Management, Hibernia Society Hall, Charleston, SC. March 5, 1996. (invited)

Congressional staff briefing on the NAS report "Carcinogens and Anticarcinogens in the Human Diet, February 15, 1996, The Capitol, Washington, DC. (invited)

"Problems with establishing exposure levels of synthetic chemicals in the food supply" In workshop "Naturally Occurring Carcinogens and Anticarcinogens in the Diet" Oegstgeest, Netherlands, December 3-5, 1995 (invited)

Analyzing Risk Science, Assessment and Management. Harvard School of Public Health Short Course September 26-29, 1995. Boston, MA. (invited)

Discussant in Screening/Priority Setting Workgroup, National Toxicology Program Workshop Mechanism - Bases Toxicology in Cancer Risk Assessment Implications for Research, Regulation and Legislation, January 11-13, 1995, Chapel Hill, North Carolina (invited)

"Cancer Risks from Childhood Environmental Exposures" presented at the Children's Environmental Health Network in Washington, DC, March 1994 (invited)

Commentary "Special Concerns Regarding Exposures to Aflatoxins" presented at the special symposium "Mycotoxin Health Risk, Control Regulation" at the Winter meeting of the Toxicology Forum, Washington, DC, February 1994 (invited)

"Carcinogen Classification and Standard Potency Assessment" at the Harvard School of Public Health, short course "Risk Science, Assessment and Management," Harvard University, Boston, MA September 1993 (invited)

"The Use of Mechanistic Data in Risk Assessment Limitations" presented at Annual Meeting of the Society of Toxicology, New Orleans, March 15, 1993, *Toxicologist* 31(1) 3 (invited)

"Comparing Chemical Risks" at ECO WORLD '92, American Society of Mechanical Engineers, Washington, DC, June 1992 (invited)

"Assessment of Occupational Cancer Risks" at "Occupational Health Risk Assessment Directions for the '90s," Harvard University School of Public Health, Boston, MA, May 1992. (invited)

"Carcinogenic and Reproductive Risk Assessment Under the California Proposition 65 Statute," American Chemical Society Annual Meeting, San Francisco, CA, April 1992 (invited)

"Expedited Procedures for Establishing Carcinogenic Potency for Regulatory Purposes," Society for Risk Analysis Annual Meeting, Baltimore, MD, December 1991

"Aflatoxin Exposure and Risk from Peanut Butter Consumption," Society for Risk Analysis Annual Meeting, Baltimore, MD, December 1991.

"Risk Characterization of Gasoline," International Symposium on Health Effects of Gasoline, Miami, FL, November 1991. (invited)

Invited Participant, Hazardous Air Pollutants Prioritization Panel, Clean Air Scientific Advisory Committee, Science Advisory Board, Washington, DC, October 1991.

"Risk Assessment in Cal-EPA," Cal-EPA Conference, Sacramento, CA, September 1991 (invited)

"On Linear Extrapolation," EPA/ILSI Symposium on Linear Extrapolation, Herndon, VA, September 1991 (invited)

"Consideration of Mechanistic Data in Proposition 65 Risk Assessments," Toxicology Forum, *Proceedings of the Annual Summer Meeting*, Aspen, CO, July 1991. (invited)

Book Review of "Harnessing Science for Environmental Regulation," at the 2nd Annual Meeting of the Ad Hoc Planning Committee for Harvard Center for Risk Analysis, Boston, MA, June 1991 (invited)

"Comments on the Relationship between Toxicity and Carcinogenicity," presented at the Workshop on Maximum Tolerated Dose Implications for Risk Assessment, National Academy of Sciences, Committee on Risk Assessment Methodology, September 1990 (invited)

"Risk Estimates for Pesticide Exposure," presented at Agricultural Chemical Utilization and Human Health, National Institute of Environmental Health Sciences, July 12-13, 1990 (invited)

"Cancer Dose Response Modeling," extension school lecture on Health and Environmental Effects of Hazardous Materials, University of California at Berkeley, May 1990 (invited)

"Regulatory Update California's Proposition 65," *The Toxicology Forum, Proceedings of the Annual Winter Meeting*, Washington DC, February 19-21, 1990 (invited)

"Cancer Risk Assessment Methodology," presented at the World Health Organization International Program on Chemical Safety, Risk Assessment Seminar, London, February 21, 1990 (invited)

"Computer Modeling of Risk Assessment," Annual Meeting of the British Toxicology Society, Newcastle University, September 20-22, 1990 (invited)

"Preparations for Workgroups," at conference "Chemical Risks in the 1990's Effective Action in California," Pacific Grove, California, January 7-9, 1990

"Issues in State Risk Assessment California Department of Health Services " In JE White (Ed) *Proceedings - Pesticides and Other Toxics Assessing Their Risk*, (Meeting Proceedings) University of California at Riverside, June 17, 1989, pp 135-144 (invited)

"Quantitative Risk Assessment Methodology," presented at the World Health Organization International Program on Chemical Safety, Risk Assessment Seminar, London, February 21, 1989 (invited)

"Regulatory Risk Assessment in the United States," presented at the United Kingdom Department of Health and Social Security, Hannibal House, Elephant and Castle, London, February 24, 1989 (invited)

"Pharmacokinetics, Placental Permeability and Teratogenic Potential of Selenium in Hamsters," *Pharmacologist*, 31(3) 138, American Society of Pharmaceutics and Environmental Toxicology, Annual Meeting in Salt Lake City, August 1989, with CC Willhite, VH Ferm, DP Hanlon.

"Regulatory Risk Assessment Under California's Proposition 65," American Association for the Advancement of Sciences Annual Meeting, San Francisco, January 1989 (invited)

"Pesticide Dose Response Relationships," *Agronomy Abstracts*, p 48, 1990, presented at the Annual Meeting of the American Society of Agronomy, October 1989, with CC Willhite.

"Acar in Fruit Actions in the Face of Uncertain Risks," Annual Meeting of the Society for Risk Analysis, October 1989, with P Painter, PE Berteau, AM Fan, JB Knaak, RJ Jackson

"A Detailed Assessment of the Carcinogenic Potency of Aflatoxin B1," Annual Meeting of the Society for Risk Analysis, October 1989, with WN Choy, A Wu, T McDonald, A Dunn

"Consistent Estimates of Urethane Carcinogenic Potency Using Pharmacokinetic and Time Dependent Models," Annual Meeting of the Society for Risk Analysis, October 1989, with AG Salmon, P Painter, D Landy.

Lecture on risk assessment methodology, University of California, Davis Extension, Hazardous Materials Management Program, April 1988, March 1989

Orchestrated sessions at conference "Mechanisms of Carcinogenic and Reproductive Toxicity Implications for Public Health," Pacific Grove, California, March 22-25, 1988

"Regulatory Risk Assessment," Sixth Annual Institute in Risk Management and Environmental Health and Protection, University of Southern California, November 29 - December 2, 1988

"Dietary Hazard Assessment for Infants and Children," *Toxicologist*, 8 95, 1988, presented at Society of Toxicology, 1988 Annual Meeting, with J Bankowska and RJ Jackson

"Precision and Accuracy of Physiologically - Based Pharmacokinetic Models in Regulatory Risk Assessments," *Toxicologist*, 8, 1025, 1988, presented at The 27th Annual Meeting of the Society of Toxicology, F Bois and TN Tozer, 1988.

"Evaluation of Methods for Quantitative Risk Assessment of Non-Cancer Effects of Air Contaminants," Society of Risk Analysis, Fall 1988 meeting, with DC Lewis and G Alexeeff

"Chromium Carcinogenicity California Strategies," with G Alexeeff, K Satin, P Painter, C Popejoy and G Murchinson, Washington, DC, April 1988

"California's Proposition 65," presented at the National Toxicology Program, Research Triangle Park, December 1987 (invited)

"Determination of No Significant Risk," Workshop Proceedings, Determination of No Significant Risk under Proposition 65, University of California at Davis December 1987

"The Use of Pharmacokinetic Models in the Determination of Risk for Regulatory Purposes," presented at the Society for Risk Analysis annual meeting, November 1987, with F Bois and TN Tozer, 1987

"Health Risks of Drinking Water," presented at the 16th Biennial Conference on Groundwater, Sacramento, September 1987.

"Uncertain Health Risk Estimates," presented at the annual meeting of the American Geophysical Union in San Francisco, December 1984, with R Wilson and MB Fiering.

"On the Relationship between Carcinogenicity and Acute Toxicity," presented at the Society of Risk Analysis Annual Conference, Boston, November 1986, with EAC Crouch, R Wilson, and B Metzger

"Variability of Cancer Potency and Associated Risk Estimates," presented at the Annual Meeting of the American Geophysical Union in San Francisco, December 1986.

"Reconciling the Results of Carcinogenesis Bioassays with Benzo(a)pyrene for the Purpose of Risk Assessment," presented at the annual meeting of the Society of Environmental Toxicology and Chemistry in Arlington, VA, November 1983.

"Development of Risk-Based Regulatory Levels Under Proposition 65", S Hoover, L Lee, A Salmon, P Painter, and L Zeise, Office of Environmental Health Hazard Assessment, Cal/EPA, Berkeley, CA 94704

REPORTS

US Environmental Protection Agency, Science Advisory Board (SAB)

Co-author of several SAB reports.

Reproductive and Cancer Hazard Assessment Section, Cal/EPA Office of Environmental Health Hazard Assessment Reports

Co-author of roughly 200 reports, 1989-present

Other California State government reports or co-authored

Health Effects of Tetrachloroethylene, CDHS Air Toxics Unit, March 1991
Health Effects of Methylene Chloride, CDHS Air Toxics Unit, 1988
Proposed Maximum Contaminant Level, 1,2-Dibromochloropropane (DBCP), 1987
Proposed Maximum Contaminant Level, Tetrachloroethylene, 1987
Proposed Maximum Contaminant Level, 1,2-Dibromoethane, 1987
Toward the 21st Century Planning for the Protection of California's Environment, 1994
Development of Methods for Quantitative Risk Assessment of Non Cancer Health Effects and Assessment of Chemicals for Acute and Chronic Exposures,
Health Effects of Exposure to Environmental Tobacco Smoke, 1997

Harvard University Energy and Environmental Policy Center Reports

M Tancrede, R Wilson L Zeise, and EAC Crouch *The Carcinogenic Risks of Indoor Air A Survey*, Harvard University Energy and Environmental Policy Center, Discussion Paper Series Number E-86-06, June 1986

L Zeise and EAC Crouch *Experimental Variation in the Carcinogenic Potency of Benzo(a)pyrene*, Harvard University Energy and Environmental Policy Center, 1984

EAC Crouch, *et al Health and Environmental Effects Document. Non-Regulatory and Cost Effective Control of Carcinogenic Hazard*, report for the Dept of Energy, Health and Assessment Div , Office of Energy Research, prepared at the Energy and Environmental Policy Center, Harvard University, September, 1982

Draft Development Document for the Electrical and Electronics Point Source Category, Publication Number EPA 440/1-80/075a, Effluent Guidelines Division, Office of Water and Waste Management, U.S Environmental Protection Agency, Washington, DC, 1980, 673 pp. (coauthor)

ORGANIZED WORKSHOPS OR ON STEERING COMMITTEE:

Three day workshop "International Case Studies in Risk Assessment and Management " A Medical University of South Carolina Environmental Hazards Assessment Program Forum, March 5-7, 1996, Charleston South Carolina, attended by roughly 200 governmental and industry scientists.

Three day workshop "Molecular Biology of Leukemia and Implications for Risk Assessment" February 11-13, 1996, Yountville, CA, attended by research biologists, physicians, mathematical modelers in industry, academia and government.

Nine two-day workshops/meetings of the Risk Assessment Advisory Committee on risk assessment issues of "Variability, Uncertainty and Risk Characterization" (August 10-11, 1995, San Francisco), "Case Studies" (September 11-12, 1995, Davis), "Hazard Identification" (October 18-19, 1995, Los Angeles) "Dose-Response Assessment" (November 15-16, 1995, Berkeley), "Human Intake Parameters, Intra-media Transfers and Exposure Monitoring" (December 14-15, 1995, Berkeley), "Cross-cutting Issues" (January 24-25, 1995; Sacramento), and "Contaminant Fate and Transfer" (February 7-8, 1996, Palo Alto), and on Committee business "Synthesis" (April 10-11, 1996, Sacramento), Working Session (May 10, 1996, Davis) and "Orientation and Planning" (June 15-16, 1996, Sacramento) Each workshop/meeting attended by 60-150 scientists and policy analysts from industry academia and government

"Critical Issues in Assessing Ecological Risk" January 23-25, 1995 Held at Asilomar conference Center. Attended by roughly 150 academic, governmental, and industry scientists Held in Monterey, CA

Three day workshop on "Guidelines for Ecotoxicological Risk Assessment" (March 29-31, 1995) Attended by roughly 150 academic, governmental, and industry scientists Held at University of California, Davis

Three day workshop on "Case Studies in Ecotoxicological Risk Assessment" (June 6-8, 1995) Attended by roughly 100 academic, governmental, and industry scientists Held in Irvine, CA

Three day workshop on "Workshop on Issues on Assessing the No Significant Risks Levels of Saccharin and Sodium Saccharin" (April 14-16, 1994), attended by governmental and industry scientists and the public Held in San Francisco, CA

Two day workshop on "The Health Effects of Environmental Tobacco Smoke" (October 13-14, 1992), attended by approximately 100 governmental, tobacco industry, and academic scientists Held in Oakland, CA

Two day workshop on "Safety Assessment for Non-Cancer Endpoints. The Benchmark Dose and Other Possible Approaches" (May 11-12, 1992) in Tiburon, CA, attended by 100 government, industry and academic scientists

One day public workshop on the risk assessment for perchloroethylene (February 1992), in Berkeley, CA, attended by approximately 100 interested parties

One day public workshop on methodology for expedited cancer risk assessment (October 1991), in Sacramento, CA, attended by approximately 200 public and government participants

One day workshop on the use of epidemiological data in cancer risk assessment (June, 1991), attended by approximately 60 academicians and State staff. Held in Berkeley, CA.

Three day conference on "Chemical Risks in the 1990's Effective Action in California" (January 7-9, 1990), attended by approximately 200 participants Held in Pacific Grove, CA

Four day conference on "Mechanisms of Carcinogenic and Reproductive Toxicity Implications for Public Health" (March 22-25, 1988), attended by approximately 150 participants Held in Pacific Grove, CA.

One day workshop on "Key Issues in Carcinogen Risk Assessment Guidelines," (December 4, 1992) co-sponsored by U.S. Environmental Protection Agency and the California Environmental Protection Agency, and conducted by the Society of Risk Analysis. Held in San Diego, CA

Two day conference on "Toxicology and Regulatory Law," (November 1-3, 1992) run by the University of California Toxic Substances Teaching Program, attended by approximately 120 governmental, industry and academic scientists, lawyers and policy analysts. Held at Asilomar in Pacific Grove, CA

Two day workshop on "Similarities and Differences in Chemical and Radiation Risk Management" Workshop on June 8 & 9 in Annapolis.

Also organized numerous California Environmental Protection Agency and California Department of Health Services regulatory workshops, 1989-1999