

RICHARD ALLEN CORLEY, Ph.D.

TITLE: Research Associate

PRESENT POSITION: Technology Leader of The Inhalation Toxicology
Research Laboratory

BUSINESS ADDRESS: The Toxicology Research Laboratory
The Dow Chemical Company
1803 Building
Midland, Michigan 48674

TELEPHONE NUMBER: 517-636-1318

DATE OF BIRTH: 21 March 1957

MARITAL STATUS: Married

CHILDREN: Two

EDUCATION

Ph.D. (1985) University of Illinois at Urbana-Champaign. Major:
Environmental Toxicology. Minor: Analytical Chemistry

Doctoral Thesis: The Metabolic Fate of Tritium-Labeled T-2
Toxin, a Trichothecene Mycotoxin, in Swine

B.A. (1979) University of Missouri at Columbia.
Major: Biology. Minor: Chemistry.

PROFESSIONAL AFFILIATIONS

American Association for the Advancement of Science, Student Member (1983-1985).

American Chemical Society, Student Member (1983-1986).

Michigan Chapter of The Society of Toxicology (1993-Present).

Society of Toxicology, Full Member (1992-Present).

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AWARDS AND RECOGNITION

Special Recognition Award (Dow) (March, 1987)

1994 Health and Environmental Sciences (Dow) Excellence in Science Award (Nov., 1994)

EMPLOYMENT

12/95-Present Research Associate. The Toxicology Research Laboratory, The Dow Chemical Company, Midland, Michigan 48674.

Consulting toxicologist for the Chemicals and Performance Products (C&PP) businesses. Responsible for coordinating C&PP activities within the Health and Environmental Sciences department, respond to issues related to toxicology and interact with product stewards, business and product management teams, customers, trade associations and regulatory agencies as the toxicology representative of the business. Laboratory leader in the development and application of physiologically-based pharmacokinetic (PB-PK) models in risk assessment. Also responsible for scientific activities and strategic direction of the inhalation toxicology laboratory as well as mentoring and developing scientific expertise within the laboratory. Principle study director and scientific reviewer for R & D reports. Supervisor: J.S. Bus.

7/93-12/95 Research Leader. The Toxicology Research Laboratory, The Dow Chemical Company, Midland, Michigan 48674.

Job description: same as above.

5/91-7/93 Research Leader. The Toxicology Research Laboratory, The Dow Chemical Company, Midland, Michigan 48674.

Group Leader of The Inhalation Toxicology Research Laboratory. Responsible for planning and budgeting research activities, personnel development, strategic direction and laboratory operations. Principle study director and scientific reviewer for R & D reports. Additional responsibilities included scientific input into toxicology-related issues and development of physiologically-based pharmacokinetic models. Supervisor: J.S. Bus.

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- 12/90-5/91 Project Leader. The Toxicology Research Laboratory, The Dow Chemical Company, Midland, Michigan 48674.
- Job description: same as above.
- 4/89-12/90 Project Leader. The Toxicology Research Laboratory, The Dow Chemical Company, Midland, Michigan 48674.
- Group Leader of the Chronic Toxicology Research Laboratory. Responsible for planning and budgeting research activities, personnel development and laboratory operations. Also involved in the design and conduct of studies, data analysis, development of physiologically-based pharmacokinetic models, report writing and scientific reviewer for R & D reports. Additional responsibilities for scientific input into toxicology-related issues for the Chemicals and Performance Products department. Supervisor: P.G. Watanabe.
- 12/88-4/89 Project Leader. The Toxicology Research Laboratory, The Dow Chemical Company, Midland, Michigan 48674.
- Research toxicologist in the inhalation/dermal toxicology research group. Responsible for protocol design, study implementation, data analysis, report writing and quality assurance in support of discovery stage compounds and product registration. Experience in state-of-the-art inhalation equipment, atmospheric analyses, computer monitoring, metabolism studies, dermal studies and physiologically-based pharmacokinetic modeling. Competent in HPLC, GLC, LSC and IR techniques and the use of computers for data acquisition and analysis. Additional responsibilities as toxicology consultant for the Chemicals and Performance Products department. Supervisors: T.D. Landry and P.G. Watanabe.
- 6/87-12/88 Senior Research Toxicologist. The Toxicology Research Laboratory, The Dow Chemical Company, Midland, Michigan 48674.
- Job description: same as above.
- 10/85-6/87: Post-Doctoral Fellow. The Toxicology Research Laboratory, The Dow Chemical Company, Midland, Michigan 48674.
- Position as research toxicologist in the inhalation/dermal research group. Designed and conducted studies on the mechanism of action of organo-metallics and halogenated solvents, in addition to inhalation, dermal and physiologically-based pharmacokinetic studies in support of product registration. Supervisors: R.R. Miller and P.G. Watanabe.
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- 8/80-10/85: Graduate Research Assistant in Environmental Toxicology. Department of Veterinary Biosciences, College of Veterinary Medicine, University of Illinois, Urbana, Illinois 61801.
- Graduate education emphasizing the areas of environmental, veterinary and natural products toxicology. Specific research interests in metabolism and kinetics of trichothecene mycotoxins in domestic animals. Experience with radiotracers, fungal culture, GLC, TLC, HPLC, GPC and spectroscopic techniques. Supervisors: W. B. Buck and S. P. Swanson.
- 8/79-8/80: Student Technician. Analytical Toxicology, Veterinary Medical Diagnostic Laboratory, University of Missouri, Columbia, Missouri 65201.
- Responsible for the analysis of animal feeds, tissues and environmental samples for chemicals and metals in support of the Diagnostic Laboratory. Experience with UV, IR, GLC, HPLC, TLC and AAS techniques. Supervisors: G.D. Osweiler and G.E. Rottinghaus.

PROFESSIONAL EXPERIENCE

MANAGEMENT OF TOXICOLOGY RESEARCH. Supervisor of the subchronic/chronic dietary toxicology laboratory (1989-1990) and the inhalation toxicology laboratory (1990-1993). Technical Leader of the inhalation toxicology laboratory (1993-present).

TECHNICAL R&D REPORTS. Authored or co-authored over 20 reports including: subchronic dermal toxicity studies, acute-to-subchronic inhalation studies, inhalation teratology studies, subacute-to-chronic dietary toxicity/oncogenicity studies, metabolism studies and physiologically-based pharmacokinetic studies. Species studied include: mice, rats, humans, rabbits and dogs.

ONGOING RESEARCH. Chronic rat and mouse inhalation studies, mechanistic (enzyme kinetics, cell proliferation, etc.) and physiologically-based pharmacokinetic and pharmacodynamic model development.

CONSULTING. Toxicology Consultant, Organic Chemicals, The Dow Chemical Company (1988-1990; 1993-Present). Member of the Toxicology Research Task Group, Ethylene Glycol Ethers Panel, Chemical Manufacturers Association (1988-1990; 1993-Present); Toxicology Research Task Group, Propylene Glycol Ethers Panel,

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Chemical Manufacturers Association (1993-Present); Ethylene Oxide Industry Council, Chemical Manufacturers Association (1989-1990); Water Quality Technical Committee of the ILSI Health and Environmental Sciences Institute (1995-Present).

INVITED WORKSHOPS AND ADVISORY PANELS

1. EPA/ILSI Workshop: Principles of Route-to-Route Extrapolations for Risk Assessment. March 20, 1990. Hilton Head, SC. (Speaker).
2. ATSDR Decision Support Methodologies for Hazard Identification/Risk Assessment of Toxic Substances. Atlanta, GA. October 18-20, 1993. (Expert Panelist).
3. EPA/AIHC/ILSI Workshop: Human Variability. October 16-17, 1995. Washington, D.C. (Participant).
4. EPA/CMA Working Group: IRIS RfC/RfD Process for Ethylene Glycol n-Butyl Ether and Diethylene Glycol n-Butyl Ether. September, 1995 - Present. (Participant).
5. CIIT Technical Advisory Panel: MTBE Research Program. September, 1995 - Present. (Participant).

PUBLICATIONS

1. Gas Chromatographic Method for the Determination of Diacetoxyscirpenol in Swine Plasma and Urine. S.P. Swanson, L. Terwell, R.A. Corley. *J. Chromatog.* 248: 456-460, 1982.
2. Apparent Blue-Green Algae Poisoning in Swine Subsequent to Ingestion of a Bloom Dominated by *Anabaena Spiroides*. V.R. Beasley, R.W. Coppock, J. Simon, R. Ely, W.B. Buck, R.A. Corley, D.M. Carlson, P.R. Gorham. *JAVMA* 182(4): 413-414, 1983.
3. Rapid Thin-Layer Chromatographic Method for the Determination of Zearalenone and Zearalenol in Grains and Animal Feeds. S.P. Swanson, R.A. Corley, D.G. White, W.B. Buck. *JAOAC* 67(3): 580-582, 1984.
4. Glucuronide Conjugates of T-2 Toxin and Metabolites in Swine Bile and Urine. R.A. Corley, S.P. Swanson, W.B. Buck. *J. Agric. Fd. Chem.* 33: 1085-1089, 1986.

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5. Pharmacokinetics of the Trichothecene Mycotoxin, T-2 Toxin, in Swine and Cattle. V.R. Beasley, S.P. Swanson, R.A. Corley, W.B. Buck, G.D. Koritz, H.R. Burmeister. *Toxicon*. 24(1): 13-23, 1986.
6. Disposition of T-2 Toxin, a Trichothecene Mycotoxin, in Intravascularly-Dosed Swine. R.A. Corley, S.P. Swanson, G.J. Gullo, L. Johnson, V.R. Beasley, W.B. Buck. *J. Agric. Fd. Chem.* 34: 868-875, 1986.
7. Disposition of Trichothecene Mycotoxins. S.P. Swanson, R.A. Corley. In "Trichothecene Mycotoxicosis: Pathophysiologic Effects". V.R. Beasley, Ed. CRC Press, Inc. 1988.
8. Chlorpyrifos: A 13-Week Nose-Only Vapor Inhalation Study in Fischer 344 Rats. R.A. Corley, L.L. Calhoun, D.A. Dittenber, L.G. Lomax, T.D. Landry. *Fund. Appl. Toxicol.* 13, 616-618, 1989.
9. Development of a Physiologically-Based Pharmacokinetic Model for Chloroform. R.A. Corley, A.L. Mendrala, F.A. Smith, M.L. Gargas, D.A. Staats, R.B. Conolly, M.E. Andersen, and R.H. Reitz. *Toxicol. Appl. Pharmacol.* 103, 512-527, 1990.
10. Estimating the Risk of Liver Cancer Associated With Human Exposures to Chloroform. R.H. Reitz, A.L. Mendrala, R.A. Corley, J.F. Quast, M.L. Gargas, M.E. Andersen, D.A. Staats, and R.B. Conolly. *Toxicol. Appl. Pharmacol.* 105, 443-459, 1990.
11. Dose-Route Extrapolations in Quantitative Toxicology: Physiologically-Based Pharmacokinetics and Pharmacodynamics of Chloroform. R.A. Corley and R.H. Reitz. In "Principles of Route-to-Route Extrapolation". T.R. Gerity and C.J. Henry, Eds. Elsevier, NY. 1990.
12. Physiologically-Based Pharmacokinetics of 2-Butoxyethanol and its Major Metabolite, Butoxyacetic Acid, in Rats and Humans. R.A. Corley, G.A. Bormett and B.I. Ghanayem. *Toxicol. Appl. Pharmacol.* 129, 61-79, 1994.
13. Multiple Endpoints: Integrated Strategies and Contemporary Issues In Animal Assays for Existing Chemicals. N.D. Krivanek and R.A. Corley. In "Screening and Testing Chemicals in Commerce" U.S. Congress, Office of Technology Assessment, OTA-BP-ENV-166. September, 1995.
14. Adaptive Metabolic and Pathologic Changes Following Chronic Inhalation of Propylene Glycol Monomethyl Ether in Rats and Mice. R.A. Corley, J.W. Crissman, J.R. Redmond, R.J. McGuirk, F.S. Cieszlak and W.T. Stott. *Occ. Hyg.* In press.

15. Evaluation of the Developmental Toxicity of Inhaled Dipropylene Glycol Monomethyl Ether (DPGME) in Rabbits and Rats. W.J. Breslin, F.S. Cieslak, C.L. Zablotny, R.A. Corley, H.G. Verschuuren and B.L. Yano. *Occ. Hyg.* In press.
16. Toxicology of Diethylene Glycol Butyl Ether: Exposure and Risk Assessment. R. Gingell, R.J. Boatman, R.A. Corley, J.B. Knaak, K.A. Rosica, R.C. Wise. *Occ. Hyg.* In press.
17. Assessing the Risk of Hemolysis in Humans Exposed to 2-Butoxyethanol Using a Physiologically-Based Pharmacokinetic Model R.A. Corley. *Occ. Hyg.* In press.
18. Subchronic Oral and Dermal Toxicity/Neurotoxicity of Triethylene Glycol Monomethyl Ether in Rats. *Manuscript in preparation.*
19. Physiologically-Based Pharmacokinetics of the Dermal Absorption of 2-Butoxyethanol Vapors in Humans. *Manuscript in preparation.*

ABSTRACTS AND PROCEEDINGS

1. Rapid Thin-Layer Chromatographic Method for the Determination of Zearalenone and Zearalenol in Corn. R.A. Corley, S.P. Swanson, D.G. White, W.B. Buck. Abst. #190. 95th An. Meeting Assoc. of Official Anal. Chem. October, 1981. Washington, D.C.
2. Toxicokinetics and Toxicodynamics of T-2 Toxin in Swine and Cattle. V.R. Beasley, W.B. Buck, S.P. Swanson, J.R. Szabo, R.A. Corley. Abst. #18. 16th An. Meeting Amer. Chem. Soc., Great Lakes Region. June, 1982. Normal, IL.
3. Gas Chromatographic Method for the Determination of Deoxynivalenol (Vomitoxin) in Swine Plasma and Urine. S.P. Swanson, R.A. Corley, R.F. Vesonder, W.B. Buck. Proceed. 96th An. Meeting Assoc. of Official Anal. Chem. October, 1982. Washington, D.C.
4. Current Status of Toxicokinetics and Residue Detection of Trichothecene Mycotoxins in Swine, Cattle and Feedstuffs. V.R. Beasley, S.P. Swanson, J.D. Reynolds, R.W. Coppock, R.A. Corley, L.M. Cote, W.B. Buck. Proceed. 86th An. Meeting U.S. Animal Health Assoc. November, 1982. Nashville, TN
5. Analysis of Deoxynivalenol (Vomitoxin) in Plasma and Urine. S.P. Swanson, R.A. Corley, R.F. Vesonder, J.D. Reynolds, L.M. Cote, R.W. Coppock, W.B. Buck. Abst. #3. 25th An. Meeting Amer. Assoc. of Vet. Lab. Diagnosticians. November, 1982. Nashville TN.

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6. Metabolism of T-2 Toxin in Swine. R.A. Corley, S.P. Swanson, R.H. Poppenga, W.B. Buck. Abst. #42. 187th Nat. Meeting Amer. Chem. Soc. April, 1984. St. Louis, MO.
7. Metabolism and Distribution of Tritium-Labeled T-2 Toxin in Swine. R.A. Corley, S.P. Swanson, W.B. Buck. Conference on Toxicity and Therapy of Trichothecene Mycotoxicosis. FASEB Summer Research Conferences. June, 1984. Saxtons River, VT.
8. Chlorpyrifos: 13-Week Nose-Only Vapor Inhalation Study In Fischer 344 Rats. R.A. Corley, T.D. Landry, L.L. Calhoun, D.A. Dittenber, L.G. Lomax. Abst. #190. 26th An. Society of Toxicology Meeting. February, 1987. Washington, D.C.
9. A Physiologically-Based Pharmacokinetic Model for Chloroform. R.A. Corley, A.L. Mendrala, F.A. Smith, M.L. Gargas, R.B. Conolly, M.E. Andersen, and R.H. Reitz. Abst #948. 28th An. Society of Toxicology Meeting. February, 1989. Atlanta, GA.
10. Developmental Toxicity of Inhaled Dipropylene Glycol Monomethyl Ether (DPGME) in Rabbits and Rats. W.J. Breslin, F.S. Cieszlak, C.L. Zablotny, R.A. Corley, B.L. Yano and H.G. Verschuuren. Abst. #154. 29th An. Society of Toxicology Meeting. February, 1990. Miami, FL.
11. A PB-PK Risk Assessment for Chloroform. R.H. Reitz, R.A. Corley, A.L. Mendrala, J.F. Quast, M.E. Andersen, M.L. Gargas, R.B. Conolly and D.A. Staats. Abst. #285. 29th An. Society of Toxicology Meeting. February, 1990. Miami, FL.
12. Descriptive Toxicology. In: "Mammalian and Environmental Toxicology - An Overview". J.M. Waechter, R.A. Corley and M.A. Mayes. Abst. #72-75. American Chemical Society, Central Region. June, 1990. University Center, MI.
13. Toxicology of Diethylene Glycol Butyl Ether: 1. Exposure and Risk Assessments. R. Gingell, W.J. Krasavage, T.R. Tyler, J.B. Knaak, R.A. Corley, J.H. Sayler and C.A. Stack. Abst. # 1223. 30th An. Society of Toxicology Meeting. February, 1991. Dallas, TX.
14. Rat and Mouse Liver and Kidney Response to Inhaled Propylene Glycol Monomethyl Ether (PGME). J.S. Bus, J.W. Crissman, T.R. Fox, J.M. Redmond, F.S. Cieszlak, R.A. Corley and W.T. Stott. Abst. #871. 31st An. Society of Toxicology Meeting. February, 1992, Seattle, WA.

15. The Subchronic Toxicity of Triethylene Glycol Monomethyl Ether (TGME) in Dermal-Exposed Sprague-Dawley Rats. R.A. Corley, F.S. Cieszlak, W.J. Breslin, L.G. Lomax and C.R. Stack. Abst. #868. 31st An. Society of Toxicology Meeting. February, 1992, Seattle, WA.
16. Triethylene Glycol Monomethyl Ether (TGME): Ninety-Day Subchronic Drinking Water Inclusion Neurotoxicity Study in Rats. P.E. Losco, M.W. Gill, J. P. Maurissen, R.A. Corley, R. Gingell and C.R. Stack. Abst. #869. 31st An. Society of Toxicology Meeting. February, 1992, Seattle, WA.
17. Subchronic Dietary Toxicity of 2,4-D Acid, 2,4-D Amine Salts and 2,4-D Esters in Rats. B.L. Yano, G.E. Schultze, J.R. Szabo, R.A. Corley, P.F. Cosse and L.H. Billups. Abst. #404. 31st An. Society of Toxicology Meeting. February, 1992, Seattle, WA.
18. A Physiologically-Based Pharmacokinetic Model for 2-Butoxyethanol and its Metabolite, Butoxyacetic Acid. R.A. Corley, G.A. Bormett, B.J. Markley and C.R. Stack. Abst. #1387. 32nd An. Society of Toxicology Meeting. March, 1993, New Orleans, LA.
19. Adaptive Metabolic and Pathologic Changes Following Chronic Inhalation of Propylene Glycol Monomethyl Ether in Rats and Mice. R.A. Corley, J.W. Crissman, J.R. Redmond, R.J. McGuirk, F.S. Cieszlak and W.T. Stott. International Symposium on Health Hazards of Glycol Ethers. Nancy, France. April 19-22, 1994.
20. Evaluation of the Developmental Toxicity of Inhaled Dipropylene Glycol Monomethyl Ether (DPGME) in Rabbits and Rats. W.J. Breslin, F.S. Cieszlak, C.L. Zablotty, R.A. Corley, H.G. Verschuuren and B.L. Yano. International Symposium on Health Hazards of Glycol Ethers. Nancy, France. April 19-22, 1994.
21. Toxicology of Diethylene Glycol Butyl Ether: Exposure and Risk Assessment. R. Gingell, R.J. Boatman, R.A. Corley, J.B. Knaak, K.A. Rosica, R.C. Wise. International Symposium on Health Hazards of Glycol Ethers. Nancy, France. April 19-22, 1994.
22. Physiologically-Based Pharmacokinetics of the Dermal Absorption of 2-Butoxyethanol Vapors in Humans. R.A. Corley, D.A. Markham, C. Banks, P. Delorme, A. Masterman, J.M. Houle and K.A. Rosica. Abst. #255. 34th An. Society of Toxicology Meeting. Baltimore, MD. March, 1995.
23. Analysis of 2-Butoxyethanol and Metabolites in Human Urine by GC & ESI/MS. D.A. Markham, M.J. Bartels, R.A. Corley, and A.W. Rettenmeier. Abst. #WPG

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170. 43rd ASMS Conference on Mass Spectrometry and Allied Topics. Atlanta, GA. May 21-26, 1995.
24. A Physiologically-Based Pharmacokinetic (PBPK) Model for 2-Butoxyethanol and its Hemolytic Metabolite, 2-Butoxyacetic Acid. K.M. Lee, R.D. Stenner, R.A. Corley, and K.D. Thrall. Abst. #63-PF-2. VII International Congress of Toxicology. Seattle, WA. July 2-6, 1995.
24. Multiple 2-Butoxyethanol Intoxications in the Same Patient: Clinical Findings, Pharmacokinetics and Therapy. J. Gualtieri, C. Harris, R. Roy, R. Corley and C. Manderfield. North American Congress of Clinical Toxicology. Rochester, NY. September 16-19, 1995.
25. Chronic Toxicity, Oncogenicity and Mechanistic Studies with Propylene Glycol Monomethyl Ether (PGME). R.A. Corley, J.W. Crissman, F.S. Cieszlak and W.T. Stott. Abst. # . 35th An. Society of Toxicology Meeting. Anaheim, CA. March 10-14, 1996.

INVITED PRESENTATIONS

1. Short and Long Range Effects of Pesticides in Agriculture. R.A. Corley. Quad Cities Chapter, Amer. Soc. of Agric. Eng. November 3, 1983. Moline, IL. .
2. The Toxicology of Glycols. R.A. Corley. Society of Automotive Engineers. August 17, 1989. Tulsa, OK..
3. A Physiologically-Based Pharmacokinetic Model for Chloroform/Chloroform Risk Estimations using PB-PK Models. R.A. Corley and R.H. Reitz. Interagency Pharmacokinetics Group. October 17, 1989. Washington, D.C.
4. A Physiologically-Based Pharmacokinetic Model for Chloroform/Chloroform Risk Estimations using PB-PK Models. R.A. Corley and R.H. Reitz. American Industrial Health Council. October 17, 1989. Washington, D.C.
5. Dose-Route Extrapolations in Quantitative Toxicology: Physiologically-Based Pharmacokinetics and Pharmacodynamics of Chloroform. R.A. Corley. EPA/ILSI Workshop: Principles of Route-to-Route Extrapolations for Risk Assessment. March 20, 1990. Hilton Head, S.C.
6. Physiologically-Based Pharmacodynamic Models in Cancer Risk Assessment. R.A. Corley. U.S.C. Biomedical Simulations Resource Short Course on "Advanced Modeling Methodologies in Pharmacokinetics and Pharmacodynamics". May 17, 1991. Los Angeles, CA.

7. Physiologically-Based Pharmacodynamic Models in Cancer Risk Assessment. R.A. Corley. University of Pittsburgh Graduate School of Public Health Seminar Series. July 24, 1991. Pittsburgh, PA.
8. Using Physiologically-Based Pharmacokinetic Modeling in Risk Assessments. R.H. Reitz and R.A. Corley. Short Course for the State of Michigan Department of Natural Resources. September 12, 1991. Lansing, MI.
9. Improvements in Health Risk Assessment: Biologically-Based Models for Tissue Dosimetry. R.A. Corley. ACS Symposium: "The Role of Mechanistic Data in Regulatory Decisions". 204th National Meeting, American Chemical Society. August 25, 1992. Washington, D.C.
10. A Physiologically-Based Pharmacokinetic Model for 2-Butoxyethanol and its Metabolite, Butoxyacetic Acid. R.A. Corley. Chemical Manufacturers Association, Glycol Ethers Toxicology Research Task Group. October 14, 1992. Washington, D.C.
11. A Physiologically-Based Pharmacokinetic Model for 2-Butoxyethanol and its Metabolite, Butoxyacetic Acid. R.A. Corley. U.S.E.P.A. RfC Work Group. February 12, 1993. Research Triangle Park, NC.
12. Improvements in Health Risk Assessment: Biologically-Based Models for Tissue Dosimetry. R.A. Corley. University of Kentucky Graduate Center for Toxicology Seminar Series. April 5, 1993.
13. Toxicology in the Chemical Industry. R.A. Corley. University of Kentucky Graduate Center for Toxicology (TOX 680 Advanced Toxicology). April 6, 1993.
14. Improving Health Risk Assessments Using Biologically-Based Models for Tissue Dosimetry. R.A. Corley. Michigan Society for Risk Analysis. Dearborn, MI. October, 26, 1993.
15. Improving Health Risk Assessments Using Biologically-Based Models for Tissue Dosimetry. R.A. Corley. Pharmacokinetics (U.K.). Birmingham, U.K. November 12, 1993.
16. A Physiologically-Based Pharmacokinetic Model for 2-Butoxyethanol and its Metabolite, Butoxyacetic Acid, in Rats and Humans. R.A. Corley. International Symposium on Health Hazards of Glycol Ethers. Nancy, France. April 19-22, 1994.

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17. Multiple Endpoints. N. Krivanek and R.A. Corley. Office of Technology Assessment Workshop on Testing and Screening Technologies for Review of Chemicals in Commerce. Washington, D.C. April 24-25, 1995.
18. Physiologically Based Pharmacokinetics of 2-Butoxyethanol: Biological Basis for an Occupational Exposure Limit. R.A. Corley. ACGIH TLV Committee. San Antonio, TX. October 14, 1995.
19. Use of Physiologically-Based Pharmacokinetic Modeling as an Approach to Risk Assessment of 2-Butoxyethanol. R.A. Corley. 1995 Fall Mtg. of the MI Chapter of the Society of Toxicology. Novi, MI. October 20, 1995.
20. Physiologically-Based Pharmacokinetics and the Dermal Absorption of 2-Butoxyethanol Vapors by Humans. R.A. Corley. Pacific Northwest National Laboratory. Richland, WA. November 30, 1995.