

Educational Background

DVM: Purdue University. 1973.
Ph.D.: Purdue University. 1975. (Veterinary Pathology)
Diplomate: American College of Veterinary Pathologists (Clinical Pathology). 1978.

Current Position

Vice Chancellor for Research, Innovation and Economic Development, NC State University.

Work Experience

Vice Chancellor for Research, Innovation and Economic Development, NC State University.

August 31-present

Responsibilities:

As Vice Chancellor, I provide leadership for the research enterprise within NC State to strengthen its links with the external community, both in expanded partnerships and in national leadership on significant issues in the research community. I am responsible for providing charismatic intellectual leadership in articulating and implementing the overall research and partnership vision. I also work in close partnership with the Chancellor and the Provost and Executive Vice Chancellor, both of whom are highly regarded nationally. The Chancellor is known to be a champion of ORIED. I also advise on major developing issues on and off campus, including key operational issues and issues of policy, regulations, programs and institutional structure. It is important to have the leadership skills and requisite experience to nurture a strong, diverse set of relationships, inspire professionals to meet ambitious goals, and create exciting synergies among colleges and academic programs. Of equal importance is the ability to bring innovative thinking coupled with proven leadership and managerial skills gained in a comparable first-tier institution of higher education.

Senior Associate Vice President for Research and Executive Director of Discovery Park,

Purdue University. January 2006-2015

Responsibilities and accomplishments:

In this capacity I served as both the chief administrative officer of Discovery Park, the University's 11-center hub for interdisciplinary and translational research, and as the senior staff member reporting to the Vice President for Research. During my tenure, Discovery Park has grown from a \$200 million research enterprise to a \$1 billion research enterprise. Responsibilities have included developing and implementing a Discovery Park strategic plan; working with the Vice President for Research and the Associate Vice President for Research for Centers and Institutes to help set and implement the research agenda for the University; serving as a member of the joint Purdue-IU task force that helped develop the Indiana Innovation Alliance concept as directed by the two university presidents; serving as a co-investigator and Executive Committee member of the Indiana CTSI; working with the academic Deans, the Vice Provost for Engagement, and the Senior Vice President and Treasurer of the Purdue Research Foundation to coordinate the activities of Discovery Park with other university operating units; overseeing the management of the seven existing buildings of Discovery Park; overseeing the design of new Discovery Park facilities; overseeing all budgetary matters in Discovery Park; working with Discovery Park Center Directors to facilitate and coordinate the submission and execution of large scale interdisciplinary research grants; recruiting new Discovery Park Center Directors; and overseeing all outreach and development activities of Discovery Park.

Interim Director, Global Sustainability Institute, Discovery Park, Purdue University.

August 2013-present

Interim Director, Burton D. Morgan Center for Entrepreneurship, Discovery Park, Purdue University. March 2006-January 2008

Interim Senior Associate Vice President for Research and Interim Executive Director of Discovery Park, Purdue University. July 2005-December 2005

Dean, School of Veterinary Medicine, Purdue University. July 1996-July 2005.

Responsibilities and accomplishments:

As Dean I served as the chief administrative officer of the School with responsibility for all academic, financial, and engagement/development activities. During my tenure, the School implemented a new hybrid veterinary curriculum with both didactic and problem-based learning courses, a new distance learning veterinary technology degree program, a new interdisciplinary graduate program enabling clinical and pathology residents to complete PhDs in basic sciences, and the life science track of a new interdisciplinary graduate program in biomedical engineering. Faculty size grew from approximately 75 to approximately 100 and the School operating budget increased from approximately \$16 million/year to approximately \$30 million/year. New research dollars increased from approximately \$2.2 million/year to nearly \$10 million/year. Facilities upgrades included the addition of a \$1.5 million equine isolation facility, a \$1.0 million radiation therapy facility, and renovations of both our student surgery and experimental surgery laboratories. A fund-raising campaign was planned and initiated which eventually generated nearly \$30 million for the School.

Associate Dean for Research, School of Veterinary Medicine, Purdue University. July 1989-June 1996.

Interim Department Head, Veterinary Pathobiology, School of Veterinary Medicine, Purdue University. July 1993 - 1995; Head, July 1995-1996.

Acting Director of Continuing Education, School of Veterinary Medicine, Purdue University. July 1987-1995.

Director of Research Programs Development, School of Veterinary Medicine, Purdue University. July 1987-July 1989.

Director, Veterinary Cytology Resource Center. Purdue University. 1986-2005.

Professor. Clinical Pathology, School of Veterinary Medicine, Purdue University. July 1983-present.

Co-Director of Clinical Pathology Laboratory, School of Veterinary Medicine, Purdue University. July 1979-July 1987.

Associate Professor. Clinical Pathology, School of Veterinary Medicine, Purdue University. July 1979-1983.

Clinical Pathologist, Lovelace Inhalation Toxicology Research Institute. Albuquerque, New Mexico. September 1977-July 1979.

Director of Clinical Pathology Laboratory, School of Veterinary Medicine, Purdue University. January 1976-August 1977.

Assistant Professor, Clinical Pathology, School of Veterinary Medicine, Purdue University. January 1976-August 1977.

NIH Post-Doctoral Fellow (Ultrastructural studies on cobalt and isoproterenol induced cardiomyopathy in swine.), School of Veterinary Medicine, Purdue University. September 1974-December 1975.

Graduate Instructor, Veterinary Pathology, School of Veterinary Medicine, Purdue University. September 1972-August 1974.

Staff Veterinarian, Colonial Oaks Animal Hospital. Gainesville, Florida. May 1973-September 1973.

Research Assistant in Veterinary Parasitology. Purdue University. August 1967-August 1972 (part-time during school year).

Honors and Awards

Purdue University Agriculture Alumni Senior Medal Award (Veterinary Science & Medicine). 1973.
Outstanding Professor for Sophomore Veterinary Students. Presented by the Student Chapter of the American Veterinary Medical Association. Purdue University. 1986 – 1988.
Best Teacher in Veterinary Medicine. Award for Excellence in Undergraduate Teaching. Purdue University. 1988.
National Award of Merit. Presented by the American Animal Hospital Association. 1989.
All-Student Recognition for Excellence in Teaching by Faculty. School of Veterinary Medicine, Purdue University. 1989.
Distinguished Alumnus Award. School of Veterinary Medicine, Purdue University. 1990.
The Gaines Cycle Fido Award for outstanding contributions to small animal medicine and surgery. Presented by the American Animal Hospital Association. 1994.
The Waltham Award given in recognition of outstanding activities or contributions by a veterinarian that have resulted in the improvement of the well-being of companion animals in the international veterinary community. Presented by the American Animal Hospital Association. 2001.
Indiana Veterinarian of the Year Award. Presented by the Indiana Veterinary Medical Association. 2002.
Alumni Faculty Award for Excellence. School of Veterinary Medicine, Purdue University. 2006.
Lifetime Achievement Award, American Society for Veterinary Clinical Pathology, 2015.

Professional Associations and Activities

American Animal Hospital Association (AAHA)

Member of the National Program Committee. 1985–1990

American Association for the Advancement of Science

American College of Veterinary Pathologists (ACVP)

Examination Committee – 1986–1990 (Chair 1990)

Councilor. 1990–1994

American Society for Veterinary Clinical Pathology (ASVCP)

Co-chairman. National Slide Review Session held in conjunction with AVMA National Meeting, Washington, D.C. 1980

Executive Board Member. 1984–1985 Scientific Program Chair. 1986

Vice President. 1986

President. 1987

American Veterinary Medical Association (AVMA) Member, AVMA Council on Research, 1995–2001

C.L. Davis Foundation for the Advancement of Veterinary Pathology. Faculty of Discussants

Editorships:

Editor-in-Chief, Journal of the American Animal Hospital Association, 2007 to present Consulting Editor. The Five Minute Veterinary Consult. Williams & Wilkins Publisher. 1994–1995; 2006–2007; 2010–2011

Editor. Veterinary Clinical Pathology. Journal of the American Society for Veterinary Clinical Pathology. 1984–1995

Associate Editor. Veterinary Clinical Pathology. Journal of the American Society for Veterinary Clinical Pathology. 1983–1984

Editorial Board. American Journal of Veterinary Research. 1983–1985

Editorial Board. Fundamental and Applied Toxicology. 1983–1986

Section Co-Editor. Toxicologic Pathology. 1995–1998

Environmental Protection Agency (EPA) Panel on Pesticides Toxicity Member. 1992–1996
 Exxon Valdez Damage Assessment and Restoration Studies
 Expert Witness. Department of Justice
 Scientific Peer Reviewer and Scientific Advisor. Fish and Wildlife Service, Department of Interior
 Scientific Advisor. Alaska Fish and Game
 Indiana Veterinary Medical Association (IVMA)
 Indiana Academy of Veterinary Medicine (IAVM). Secretary of Board of Directors 1987–1995
 Inhalation Toxicology Research Institute (ITRI). Adjunct Scientist. 1991–present
 National Academy of Sciences. Lithium Toxicity Review Board. 1986
 Phi Zeta Veterinary Honor Society
 Vice President of local chapter. 1973
 Treasurer of local chapter. 1980
 Secretary of local chapter. 1981
 President of local chapter. 1982
 Student Chapter of the American Animal Hospital Association Faculty Advisor. 1984–1989
 Student Chapter of the American Veterinary Medical Association Faculty Advisor. 1981–1983
 Session Chair – Gordon Research Conference on Comparative Hematopoiesis. 1999
 Western Veterinary Conference
 Member, Board of Directors. 2000–2003
 IDEXX Laboratories, Inc.
 Member, External Advisory Board. 2007-present
 Animal Medical Center, New York, NY
 Member, Board of Trustees. 2007-present
 Indiana Spinal Cord and Brain Injury Research Fund
 Member of Board. 2007- 2015
 Indiana Health Industry Forum
 Board of Directors. 2009-2015
 Indiana University School of Medicine
 Scientific Advisory Council. 2010-2013
 Indiana State Museum
 Board of Directors. 2010-2015
 Regenstrief Foundation
 Board of Directors. 2014-2015
 Purdue Research Foundation Foundry Investment Fund
 Board of Directors. 2014-2015

Publications

Journal Articles and Proceedings Publications

1. Peiffer, R.L., **Rebar, A.H.**, and Burke, R. Fibrosarcoma Involving the Skeleton of the Dog. *Vet Med Small Anim Clin* 69:1143-1148, 1974.
2. **Rebar, A.H.** (PhD Thesis). Studies on the Pathogenesis of Pancreatic Necrosis Induced in Se-Deficient Chicks. Purdue University. 1975.
3. **Rebar, A.H.** and Van Vleet, J.F. A Correlative Study of Hepatic Selenium Levels and Depletion Rates with the Onset of Selenium-Vitamin E Deficiency Disease in the Chick. *Poult Sci* 56(3):797-800, 1977.
4. **Rebar, A.H.** and Van Vleet, J.F. Ultrastructural Changes in the Pancreata of Selenium-Vitamin E Deficient Chicks. *Vet Pathol* 14:629-642, 1977.
5. Van Vleet, J.F., **Rebar, A.H.**, and Ferrans, V.J. Acute Cobalt and Isoproterenol Cardiotoxicity in Swine: Protection by Selenium-Vitamin E Supplementation and Potentiation by Stress-Susceptible Phenotype. *Am J Vet Res* 38(7):991-1002, 1977.

6. Weirich, W.E., Blevins, W.E., and **Rebar, A.H.** Late Consequences of Patent Ductus Arteriosis in the Dog: A Report of Six Cases. *JAAHA* 14:40-51, 1978.
7. DeNicola, D.B., **Rebar, A.H.**, and Henderson, R.F. Early Indicators of Pulmonary Damage in Syrian Hamsters Exposed to NO₂. *Inhalation Toxicology Research Institute Annual Report*, LF-69, UC-48, pp. 352-355, 1978.
8. Lundgren, D.L., **Rebar, A.H.**, and McClellan, R.O. Biological Effects of Repeated Inhalation Exposure of Syrian Hamsters to Aerosols of Plutonium-239 Oxide. *Radiat Res* 74(3):56, 1978.
9. Van Vleet, J.F., Greenwood, L., Ferrans, V.J., and **Rebar, A.H.** Effect of Selenium- Vitamin E on Adriamycin-Induced Cardiomyopathy in Rabbits. *Am J Vet Res* 39(6):997-1010, 1978.
10. DeNicola, D.B., **Rebar, A.H.**, Carlton, W.W., and Yagen, B. T-2 Toxin Mycotoxicosis in the Guinea Pig. *Food Cosmet Toxicol* 16(6):601-610, 1978.
11. McIlwraith, C.W., Fessler, J.F., Blevins, W.E., Page, E.H., **Rebar, A.H.**, Van Sickle, D.C., and Coppoc, G.L. Experimentally Induced Arthritis of the Equine Carpus: Clinical Determinations. *Am J Vet Res* 40(1):11-20, 1979.
12. **Rebar, A.H.**, Fessler, J.F., and Erb, R. Testicular Teratoma in the Horse - A Case Report and Endocrinologic Study. *J Equine Med Surg* 3:361-365, 1979.
13. Lundgren, D.L., Hahn, F.F., **Rebar, A.H.**, and McClellan, R.O. Toxic Effects of Repeated Inhalation Exposure of Syrian Hamsters to Aerosols of CeO or PuO. In: *Proceedings of the AIEA Symposium: Biological Implications of Radionuclides Released from Nuclear Industries*, Vienna, pp. 29-42, 1979.
14. Henderson, R.F., **Rebar, A.H.**, Pickrell, J.A., and Newton, G.J. Early Damage Indicators in the Lung III: Biochemical and Cytological Response of the Lung to Inhaled Metal Salts. *Toxicol Appl Pharmacol* 50(1):123-136, 1979.
15. Henderson, R.F., **Rebar, A.H.**, and DeNicola, D.B. Early Damage Indicators in the Lung IV: Biochemical and Cytological Responses of the Lung to Lavage with Metal Salts. *Toxicol Appl Pharmacol* 51:129-135, 1979.
16. DeNee, P.B., **Rebar, A.H.**, DeNicola, D.B., and Pickrell, J.A. Application of SEM Back-Scattered Imaging to the Study of the Effects of Fibrous Glass and Asbestos on Lung Tissue. *Microbeam Analysis - 1979*, San Francisco, pp. 11-14, 1979.
17. Henderson, R.F., **Rebar, A.H.**, DeNicola, D.B., and Henderson, T.R. The Use of Pulmonary Lavage Fluid in Screening for Early Indicators of Lung Injury. *Proceedings of the Hanford Symposium on Pulmonary Toxicology of Respirable Particles*, Richland, WA, 1979.
18. Redman, H.C., Hobbs, C.H., and **Rebar, A.H.** Survival Distribution of Syrian Hamsters Used During 1972-1977. *Prog. Exp. Tumor Res.* 24:108-117, 1979.
19. **Rebar, A.H.**, Boon, G.D., and DeNicola, D.B. A Cytologic Comparison of Romanowsky and Papanicolaou Type Staining Procedures: An Outline. *Proceedings of the American Society for Veterinary Clinical Pathology*, Washington, D.C., 1980.
20. **Rebar, A.H.**, Hahn, F.F., Halliwell, W.H., DeNicola, D.B., and Benjamin, S.B. Microangiopathic Hemolytic Anemia Associated with Radiation-induced Hemangiosarcomas (in Dogs). *Vet Pathol* 17(4):443-454, 1980.
21. **Rebar, A.H.**, DeNicola, D.B., and Muggenburg, B.A. Bronchopulmonary Lavage Cytology in the Dog: Normal Findings. *Vet Pathol* 17(3):294-304, 1980.
22. Hackett, N.A., Henderson, R.F., and **Rebar, A.H.** Kinetics of Lung Cell Labeling after Lung Lavage Assay. *Toxicol Appl Pharmacol* 52(1):169-176, 1980.
23. Henderson, R.F., Wolff, R.K., **Rebar, A.H.**, DeNicola, D.B., and Beethe, R.L. Early Indicators of Lung Damage from Inhaled Sulfuric Acid Mist. *Inhalation Toxicology Research Institute Annual Report*, LF-69, UC-48, pp. 524-528, 1980.
24. DeNicola, D.B., **Rebar, A.H.**, and Henderson, R.F. Response of Syrian Hamsters to Acute Exposure to a FBC Fly Ash in the Presence and Absence of NO₂. *Inhalation Toxicology Research Institute Annual Report*, LF-69, UC-48, pp. 529-532, 1980.

25. DeNee, P.B., **Rebar, A.H.**, DeNicola, D.B., and Pickrell, J.A. Application of Scanning Electron Microscope to the Study of the Effects of Fibrous Glass and Asbestos on Lung Tissue. Inhalation Toxicology Research Institute Annual Report, LF-69, UC-48, pp. 555- 560, 1980.
26. Brownstein, D.B., **Rebar, A.H.**, Bice, D.E., Muggenburg, B.A., and Hill, J.O. Immunology of the Lower Respiratory Tract: Serial Morphologic Changes in the Lungs and Tracheobronchial Lymph Nodes of Dogs After Intrapulmonary Immunization with Sheep Erythrocytes. *Am J Pathol* 98(2):499-514, 1980.
27. **Rebar, A.H.** and Boon, G.D. A Diagnostic Approach to Bleeding Disorders in the Dog. *AAHA Proceedings*, pp. 125-129, 1980.
28. **Rebar, A.H.** and Boon, G.D. Diagnostic Cytology in Small Animal Practice. *AAHA Proceedings*, pp. 131-133, 1980.
29. **Rebar, A.H.** and Boon, G.D. White Blood Cell Responses in Disease. *AAHA Proceedings*, pp. 135-137, 1980.
30. Merickel, B.S., Hahn, F.F., Hanika-Rebar, C., Muggenburg, B.A., Brownstein, D.G., **Rebar, A.H.**, and DeNicola, D.B. Acute Parvoviral Enteritis in a Closed Beagle Colony. *Lab Anim Sci* 30(5):874-878, 1980.
31. Wolff, R.K., Merickel, B.S., **Rebar, A.H.**, and Mewhinney, J.A. Comparison of Bone Scans and Radiography for Detecting Bone Neoplasms in Dogs Exposed to $^{238}\text{PuO}_2$. *Am J Vet Res* 41(11):1804-1807, 1980.
32. Henderson, R.F., DeNicola, D.B., Pickrell, J.A., and **Rebar, A.H.** Biochemical Correlates of Airway and Tissue Injury in Rodents Exposed to NO_2 . Proceedings of the 11th Conference on Environmental Toxicology, Dayton, Ohio, November 18-20, 1980.
33. Hanika, C. and **Rebar, A.H.** Ureteral Transitional Cell Carcinoma in a Dog. *Vet Pathol* 17:232-245, 1980.
34. Adams, S.B., Fessler, J.F., and **Rebar, A.H.** Cytologic Interpretation of Peritoneal Fluid in the Evaluation of Equine Abdominal Crises. *Cornell Vet* 70(3):232-246, 1980.
35. Henderson, R.F., **Rebar, A.H.**, DeNicola, D.B., and Henderson, T.R. The Use of Pulmonary Lavage Fluid in Screening for Early Indicators of Lung Injury. Pulmonary Toxic of Resp Particles, pp. 378-391, 1980. (Proceedings of the Hanford Symposium of the 19th Annual Hanford Life Sciences Symposium at Richland, Washington. October 22-24, 1979.)
36. Schnizlein, C.T., Bice, D.E., **Rebar, A.H.**, Wolff, R.K., and Beethe, R.L. Effect of Lung Damage by Acute Exposure to Nitrogen Di Oxide on Lung Immunity in the Rat. *Environ Res* 23(2):362-370, 1980.
37. **Rebar, A.H.**, Lewis, H.B., DeNicola, D.B., Halliwell, W.H., and Boon, G.D. Red Blood Cell Fragmentation in the Dog: An Editorial Review. *Vet Pathol* 18(4):415-426, 1981.
38. Henderson, R.F., **Rebar, A.H.**, DeNicola, D.B., Henderson, T.R., and Damon, E.G. The Use of Pulmonary Washings as a Probe to Detect Lung Injury. *Chest* 80S:12S-15S, 1981.
39. Van Vleet, J.F., Greenwood, L., and **Rebar, A.H.** Effect of Selenium-Vitamin E on Hematologic Alterations of Adriamycin Toxicosis in Young Pigs. *Am J Vet Res* 42(7):1153- 1159, 1981.
40. **Rebar, A.H.** and Boon, G.D. An Approach to the Diagnosis of Bleeding Disorders in Dogs. *JAAHA* 17(2):227-232, 1981.
41. DeNicola, D.B., **Rebar, A.H.**, and Henderson, R.F. Early Damage Indicators in the Lung V. Biochemical and Cytological Response to NO_2 Inhalation. *Toxicol Appl Pharmacol* 60(2):301-312, 1981.
42. Boon, G.D., **Rebar, A.H.**, and DeNicola, D.B. A Cytologic Comparison of Romanowsky and Papanicolaou Type Stains I: Introduction, Methodology, and Cytology of Normal Organs. *Vet Clin Pathol* 11:22-30, 1982.
43. **Rebar, A.H.**, Boon, G.D., and DeNicola, D.B. A Cytologic Comparison of Romanowsky and Papanicolaou Type Stains II. Cytology of Inflammation and Neoplasia. *Vet Clin Pathol* 11:16-25, 1982.

44. **Rebar, A.H.**, Boon, G.D., and DeNicola, D.B. Interpretation of Laboratory Profiles I: General Principles and Evaluation of Liver, Pancreas, and Intestine. AAHA Proceedings 49:25-31, 1982.
45. **Rebar, A.H.**, Boon, G.D., and DeNicola, D.B. Laboratory Profiles in Endocrine Disorders. AAHA Proceedings. 49:33-39, 1982.
46. Steckel, R.R., Adams, S.B., Long, G.G., and **Rebar, A.H.** Antemortem Diagnosis and Treatment of Cryptococcal Meningitis in a Horse. J Am Vet Med Assoc 180(9):1085-1089, 1982.
47. Boosinger, T., **Rebar, A.H.**, DeNicola, D.B., and Boon, G.D. Bone Marrow Alterations Associated with Canine Parvoviral Enteritis. Vet Pathol 19(5):558-561, 1982.
48. Ash, S.R., Thornhill, J.A., Dhein, C.R., and **Rebar, A.H.** Dialytic Support of Dogs with Clinically Occurring Renal Failure: A Realistic Model of Acute Renal Failure in Man. Clin Exp Dial Apheresis 6(1):25-44, 1982.
49. Van Vleet, J.F., Amstutz, H.E., Weirich, W.E., **Rebar, A.H.**, and Ferrans, V.J. Acute Monensin Toxicosis in Swine: Effect of Graded Doses of Monensin and Protection of Swine by Pretreatment with Selenium-Vitamin E. Am J Vet Res 44(8):1460-1468, 1983.
50. Van Vleet, J.F., Amstutz, H.E., Weirich, W.E., **Rebar, A.H.**, and Ferrans, V.J. Clinical, Clinicopathologic, and Pathologic Alterations of Monensin Toxicosis in Swine. Am J Vet Res 44(8):1469-1475, 1983.
51. Lundgren, D.L., Hahn, F.F., **Rebar, A.H.**, and McClellan, R.O. Toxic Effects of Repeated Inhalation Exposure of Syrian Hamsters to Aerosols of PuO₂. Int J Radiat Biol 43(1):1-18, 1983.
52. Pickrell, J.A., Hill, J.O., Carpenter, R.L., Hahn, F.F., and **Rebar, A.H.** In vitro and In vivo Response after Exposure to Man-Made Mineral and Asbestos Insulation Fibers. Am Ind Hyg Assoc J 44(8):557-561, 1983.
53. Cantwell, H.D., **Rebar, A.H.**, and Allen, A.R. Pleural Effusions in the Dog: Principles for Diagnosis. JAAHA 19:227-232, 1983.
54. Steckel, R.R., Kazacos, K.R., Harrington, D.D., Thacker, H.L., and **Rebar, A.H.** Equine Pulmonary Habronemiasis with Acute Hemolytic Anemia Resulting from Organophosphate Treatment. Equine Pract 5(5) 35-39, 1983.
55. **Rebar, A.H.**, Boon, G.D., and DeNicola, D.B. Biochemical Profiling in Dogs and Cats: General Interpretive Principles and Evaluation of Pancreas and Intestine. AAHA Proceedings 50:59-62, 1983.
56. **Rebar, A.H.**, Boon, G.D., and DeNicola, D.B. Laboratory Profiling II: Diseases of the Urinary System. AAHA Proceedings 50:63-66, 1983.
57. **Rebar, A.H.**, Boon, G.D., and DeNicola, D.B. Clinical Pathology Update: Establishing an In-house Laboratory. AAHA Proceedings 50:67-70, 1983.
58. Van Vleet, J.F., Amstutz, H.E., Weirich, W.E., **Rebar, A.H.**, and Ferrans, V.J. Clinical, Clinicopathologic, and Pathologic Alterations in Acute Monensin Toxicosis in Cattle. Am J Vet Res 44(11):2133-2144, 1983.
59. **Rebar, A.H.** and Richardson, R.C. Neoplasia of the Hemolymphatic System in Dogs: A Clinicopathologic Approach to Diagnosis and Therapy. AAHA Proceedings 51:29-33, 1984.
60. **Rebar, A.H.**, DeNicola, D.B., and Boon G.D. A Case Oriented Approach to Hemogram Interpretation. AAHA Proceedings 51:41-46, 1984.
61. Richardson, R.C., **Rebar, A.H.**, and Elliott, G.S. Common Skin Tumors of the Dog: A Clinical Approach to Diagnosis and Treatment. Comp on Cont Vet Ed for the Pract Vet 6(12):1080-1086, 1984.
62. DeNicola, D.B., **Rebar, A.H.**, and Boon, G.D. Bone Marrow Collection and Evaluation in Small Animal Practice. AAHA Proceedings 51:49-52, 1984.
63. Richardson, J.A., Morter, R.L., **Rebar, A.H.**, and Olander, H.J. Lesions of Porcine Necrotic Ear Syndrome. Vet Pathol 21 (2):152-157, 1984.
64. Van Vleet, J.F., Amstutz, H.E., and **Rebar, A.H.** Effect of Pretreatment with Selenium-Vitamin E on Monensin Toxicosis in Cattle. Am J Vet Res 46 (11):2221-2228, 1985.

65. Benson, J.M., Henderson, R.F., McClellan, R.O., Hanson, R.L., and **Rebar, A.H.** Comparative Acute Toxicity of Four Nickel Compounds to F344 Rat Lung. *Fundam Appl Toxicol* 7(2):340-347, 1986.
66. Greenspan, B.J., Allen, M.D., and **Rebar, A.H.** Inhalation Toxicity of Lithium Combustion Aerosols in Rats. *J Toxicol Environ Health* 18(4):627-638, 1986.
67. **Rebar, A.H.**, Greenspan, B.J., and Allen, M.D. Acute Inhalation Toxicopathology of Lithium Combustion Aerosols in Rats. *Fundam Appl Toxicol* 7(1):58-67, 1986.
68. Whitney, M.S., Boon, G.D., **Rebar, A.H.**, and Ford, R.B. Evaluation of a Spectrophotometric Method for Canine Serum Lipase Determination. *Am J Vet Res* 47(2):458-462, 1986.
69. Engelhardt, J.A., Carlton, W.W., **Rebar, A.H.**, and Hayes, A.W. Rubratoxin B Mycotoxicosis in the Mongolian Gerbil. *Food Chem Toxicol* 25(11):843-854, 1987.
70. Whitney, M.S., Boon, G.D., **Rebar, A.H.**, and Ford, R.B. Effects of Acute Pancreatitis on Circulating Lipids in Dogs. *Am J Vet Res* 48(10):1492-1497, 1987.
71. Engelhardt, J.A., Carlton, W.W., **Rebar, A.H.**, and Hayes, A.W. Rubratoxin B Mycotoxicosis in the Syrian Hamster. *Food Chem Toxicol* 25(9):685-696, 1987.
72. Webb, D.M. and **Rebar, A.H.** Listeriosis in an Immature Black Buck Antelope (*Antelope Cervicapra*). *J Wildl Dis* 23(2):318-320, 1987.
73. Pickrell, J.A., Hahn, F.F., **Rebar, A.H.**, Horoda, R.A., and Henderson, R.F. Changes in Collagen Metabolism and Proteinolysis after Repeated Inhalation Exposure to Ozone. *Exp Mol Pathol* 46(2):159-167, 1987.
74. Gillett, N.A., Muggenburg, B.A., Boecker, B.B., Hahn, F.F., Seiler, F.A., **Rebar, A.H.**, Jones, R.K., and McClellan, R.O. Single Inhalation Exposure to ⁹⁰SrCl₂ in the Beagle Dog: Hematological Effects. *Radiat Res* 110(2):267-288, 1987.
75. Hastings, C.E. Jr., DeNicola, D.B., **Rebar, A.H.**, Turek, J.J., Born, G.S., and Kessler, W.V. The Effects of Chlorophenthermine Pretreatment on the Toxicity of Nitrogen Dioxide in Mice. *Fundam Appl Toxicol* 9(1):69-81, 1987.
76. Engelhardt, J.A., **Rebar, A.H.**, Honor, D.J., and Carlton, W.W. Atypical Location of Granular Cell Tumors in two Dogs. *Vet Pathol* 24(3):273-276, 1987.
77. **Rebar, A.H.** The Feline Hemogram. Proceedings for the 4th Annual Eastern States Veterinary Conference/ Kal Kan Seminar. pp. 23-32. Orlando, Florida. January 22, 1987.
78. Henderson, R.F., Mauderly, J.L., Pickrell, J.A., Hahn, F.F., Muhle, H., and **Rebar, A.H.** Comparative Study of Bronchoalveolar Lavage Fluid: Effects of Species, Age, and Method of Lavage. *Exp Lung Res* 13(3):329-342, 1987.
79. Toth, L.A. and **Rebar, A.H.** Measurement of Antinuclear Antibodies in the Dog: A Review. *Vet Clin Path* 16(3):76-82, 1987.
80. Engelhardt, J.A., Honor, D.J., and **Rebar, A.H.** What's Your Diagnosis?: Granular Cell Tumor in a Dog. *Vet Clin Path* 16(1):19, 1987.
81. Williams, T.D., Soule, J.D., Ticer, J., Farwell, C.J., and **Rebar, A.H.** Volvulus in a Sea Otter. *California Veterinarian* 41:7-8, 1987.
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12. DeNicola, D.B., **Rebar, A.H.**, and Boon, G.D. Cerebrospinal Fluid Sedimentation With Controlled Diffusion for Superior Cytomorphology. *Vet Clin Pathol* 11:19, 1982.
13. Hastings, C.E. Jr., Kessler, W.V., Born, G.S., **Rebar, A.H.**, and DeNicola, D.B. Pulmonary Toxicity of Nitrogen Dioxide Following Drug-Induced Lipoproteinosis. American College of Toxicology Annual Meeting. November 30 - December 2, 1983.
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16. Okeefe, T.L., Bottoms, G.D., Lamar, C.H., **Rebar, A.H.**, and Fessler, J.F. Endotoxin Stimulation of Thromboxane and Prostacyclin Production in Porcine Vascular Endothelial Cells and Neutrophils. *Fed Proc* 45(4):1037, 1986. (70th Annual Meeting of the Federation of American Societies for Experimental Biology. St. Louis, Missouri. April 13-18, 1986.)
17. Halliwell, W.H., Edgecomb, J.H., Davidovich, N.J., Boon, G.D., and **Rebar, A.H.** Hematologic Alterations Occurring in Beagle Dogs Treated with Dideoxycytidine (ddC). American College of Veterinary Pathologists Annual Meeting. Monterey, California. November 9-13, 1987.
18. Honor, D.J., DeNicola, D.B., Plohr, R., Boon, G.D., **Rebar, A.H.**, and Adams, S.B. Cerebrospinal Fluid Alterations in Ponies with Experimentally Induced Verminous Meningoencephalitis. American College of Veterinary Pathologists Annual Meeting. Monterey, California. November 9-13, 1987.
19. Elliott, G.S. and **Rebar, A.H.** Chemotaxis of Porcine Neutrophils. *Vet Clin Pathol* 17:13, 1988.

Presentations

1. North Central Poultry Disease Conference. June 12-13, 1974. University of Illinois, Illinois. Pathogenesis of pancreatic necrosis in Se-deficient chicks.
2. The Lovelace Inhalation Toxicology Research Institute. February 1975. Albuquerque, New Mexico. Ultrastructural alterations in the pancreata of Se-deficient chicks.
3. C.L. Davis Foundation for the Advancement of Veterinary Pathology. Summer 1976. Purdue University, Indiana. Correlation of frozen section morphology (surgical pathology) with clinical laboratory data.
4. Fall Conference for Practicing Veterinarians. Fall 1976. Purdue University, West Lafayette, Indiana. Pathologic cytology of peritoneal fluid in the horse.
5. Indiana Veterinary Medical Association. Fall 1976. Valparaiso, Indiana. Cytology of abnormal fluid accumulation.
6. Calumet Veterinary Medical Association. Fall 1976. Valparaiso, Indiana. Diagnostic cytology of solid tissue masses.
7. Indiana Veterinary Medical Association Annual State Meeting. January 1977. Indianapolis, Indiana. An introduction to the interpretation of pathologic cytology.
8. School of Veterinary Medicine, Louisiana State University. Spring 1977. Baton Rouge, Louisiana. A clinico-pathologic approach to the interpretation of peritoneal and plural effusions.
9. Southern Indiana Veterinary Medical Association. Spring 1977. Seymour, Indiana. The dynamics of leukocyte responses to disease.
10. Wabash Valley Veterinary Medical Association. Spring 1977. Wabash, Indiana. Clinical pathology of acute abdominal crises.
11. American Animal Hospital Association Region I Meeting. Fall 1977. Cherry Hill, New Jersey. Diagnostic cytology; Clinical pathology for veterinary technicians; The cytology of lymphadenopathy in domestic animals; Cytology of bronchopulmonary lavage fluid in the dog; cytologic criteria of malignancy.
12. C.L. Davis Foundation for the Advancement of Veterinary Pathology. July 31 - August 4, 1978. Philadelphia, Pennsylvania. Diseases of the blood and bone marrow.
13. Albuquerque Veterinary Association. Spring 1978. Albuquerque, New Mexico. Biochemical profiling in veterinary medicine I and II.
14. Del Norte Veterinary Association. July 1978. Santa Fe, New Mexico. Diagnostic cytology.
15. New York State College of Veterinary Medicine - Cornell University. May 1978. Ithaca, New York. Fragmentation anemias in dogs.
16. American Animal Hospital Association Region I Meeting. October 1978. Niagara Falls, New York. Cytology of pleural effusions; synovial fluid cytology; Diagnostic cytology of the lower respiratory tract; Pathology of parasitic lung disease.
17. American College of Veterinary Pathologists. 1978. Early damage indicators of lung injury: correlation of lavage fluid enzyme levels with lavage fluid cytology and histopathologic changes in Syrian hamsters exposed to CdCl and CrCl.
18. C.L. Davis Foundation for the Advancement of Veterinary Pathology. June 1979. Columbia University, New York City, New York. Diseases of the blood and bone marrow.
19. Ralston Purina 4th Annual Seminar for Veterinarians. 1979. Palm Springs, California. Diagnostic cytology in veterinary practice.
20. C.L. Davis Foundation for the Advancement of Veterinary Pathology. March 1980. Los Angeles, California. The blood cells in disease; white blood cells in disease.
21. American Animal Hospital Association National Meeting. April 1980. University of California, Los Angeles, California. A diagnostic approach to hemorrhagic disorders in dogs; Diagnostic cytology for veterinary practitioners; hematology for animal health technicians.

22. Invited paper presented to the American Society of Veterinary Clinical Pathologists at the American Veterinary Medical Association National Meeting. July 21-24, 1980. Washington, D.C. A cytologic comparison of Romanowsky and Papanicolaou-type staining procedures.
23. American Animal Hospital Association Region I Meeting. 1980. Toronto, Canada. Clinical chemistry profiling in companion animals; White blood cell responses in disease; Veterinary hematology for animal health technicians I and II.
24. Pennsylvania Veterinary Medical Association Annual Meeting. 1980. Chambersburg, Pennsylvania. Hematology laboratory for animal health technicians; Cytology wet laboratory for veterinarians.
25. Purdue University Annual Fall Conference for Animal Health Technicians. 1980. Purdue University, West Lafayette, Indiana. Hematology for animal health technicians.
26. New Jersey Metropolitan Veterinary Association. February 1981. Newark, New Jersey. White blood cell responses in disease; Interpretive veterinary cytology.
27. Illinois Veterinary Medical Association. February 1981. Champaign-Urbana, Illinois. Diagnostic cytology (lecture and laboratory).
28. Indiana Veterinary Medical Association. March 1981. Indianapolis, Indiana. Diagnostic cytology; A case-oriented approach to clinical chemistry.
29. C.L. Davis Foundation for the Advancement of Veterinary Pathology. April 1981. Rutgers University, New Jersey. Diseases of red blood cells - peripheral blood and marrow alterations.
30. West Central Indiana Veterinary Medical Association. April 1981. Lafayette, Indiana. Clinical pathology of the endocrine system.
31. Colorado State Animal Health Technicians Conference. May 1981. Denver, Colorado. Evaluation of peripheral blood (lecture and laboratory).
32. C.L. Davis Foundation for the Advancement of Veterinary Pathology. 1981. Montana State University, Montana. Derangements of blood and bone marrow.
33. American Animal Hospital Association Region I Meeting. 1981. Montreal, Canada. Diagnostic cytology wet laboratory for veterinarians; Cytologic evaluation of pleural and peritoneal effusions.
34. Texas State Veterinary Medical Association. 1982. Dallas, Texas. Interpretation of clinical chemistry profiling for veterinary practitioners; An introduction to diagnostic veterinary cytology; Leukocyte responses in disease.
35. C.L. Davis Foundation for the Advancement of Veterinary Pathology. 1982. University of Chicago - Chicago, Illinois. Red blood cell responses in disease: A pathophysiologic approach to the evaluation of anemia.
36. Calumet Veterinary Association. 1982. Valparaiso, Indiana. Cytology of pleural and peritoneal effusions.
37. American Animal Hospital Association National Meeting. 1982. Las Vegas, Nevada. Interpretation of laboratory profiles I: General principles; Interpretation of laboratory profiles II: Acute diseases of the liver, pancreas, and gastrointestinal system; Interpretation of laboratory profiles in endocrine disorders; Cytology as an aid in the diagnosis of liver disease; Evaluation of peripheral blood smears (with Dr. Victor Perman).
38. Annual Convention of the Oklahoma State Veterinary Association. January 26, 1983. Tulsa, Oklahoma. Biochemical profiling of liver, kidney, and pancreas.
39. American Animal Hospital Association National Meeting. 1983. San Antonio, Texas. Biochemical profiling in dogs and cats: General interpretations and evaluation of pancreas and intestine; Laboratory profiling II: Diseases of the urinary system; Clinical pathology update: Establishing an in-house laboratory; Evaluation of peripheral blood smears (with Dr. William Ruchl).
40. Annual Meeting of the Mississippi Veterinary Medical Association. June 28, 1983. Jackson, Mississippi. Biochemical profiling in veterinary medicine.
41. Central Indiana Veterinary Medical Association. August 10, 1983. Indiana. A case-

- oriented approach to liver and kidney disease diagnosis.
42. Purina National Veterinary Conference. September 19, 1983. Napa Valley, California. Biochemical profiling in small animals.
 43. Annual Meeting of the Colorado State Veterinary Association. September 25, 1983. Steamboat Springs, Colorado. Cytology for veterinary technicians; cytologic interpretation for veterinarians; Biochemical profiling in canine liver and kidney disease.
 44. American Association of Clinical Chemists. October 3, 1983. Chicago, Illinois. Evaluation of regenerative anemias in laboratory animals.
 45. Annual Convention of the Connecticut Veterinary Medical Association. November 3, 1983. Hartford, Connecticut. Biochemical profiling in veterinary medicine.
 46. American College of Toxicology. November 30 - December 2, 1983. Arlington, Virginia. Pulmonary toxicity of nitrogen dioxide following drug-induced lipoproteinosis.
 47. American Animal Hospital Association National Meeting. 1984. San Francisco, California. Neoplasia of the hemolymphatic system in the dog (with Dr. R.C. Richardson); A case-oriented approach to hemogram interpretation; Bone marrow collection and evaluation in small animal practice; Evaluation of peripheral blood smears (with Dr. Victor Perman).
 48. School of Veterinary Medicine. 1984. University of California at Davis, California. Bronchoalveolar lavage profiling in experimental toxic lung disease.
 49. Gaines National Symposium. 1984. Purdue University, West Lafayette, Indiana. Evaluation and treatment of neoplasia in geriatric patients (with Drs. R.C. Richardson and G.S. Elliott).
 50. United Kingdom Division of the C.L. Davis Foundation for the Advancement of Pathology. 1984. Harrogate, England. Evaluation of anemias in domestic and laboratory animals; Bone marrow evaluation in animals.
 51. Greater Milwaukee Veterinary Association. 1984. Milwaukee, Wisconsin. Hemogram interpretation in dogs and cats; chemistry profiling in domestic animals.
 52. Purdue University Annual Conference for Veterinary Technicians. 1984. Purdue University, West Lafayette, Indiana. Hematology for veterinary technicians (keynote speaker).
 53. Eastern Division of the American Association of Clinical Chemists (Laboratory Animal section). 1984. New Jersey. Evaluation of red cell disorders in laboratory animals.
 54. American Society for Veterinary Clinical Pathology. 1984. Toronto, Canada. Cerebrospinal fluid profiling in man and animals (discussant with Drs. D.B. DeNicola and Oldrich Kolar).
 55. Greater Memphis Veterinary Association. 1984. Memphis, Tennessee. Biochemical profiling and hemogram interpretation in dogs and cats.
 56. Greater Des Moines Veterinary Association. 1984. Des Moines, Iowa. Biochemical profiling in dogs and cats.
 57. Nebraska Veterinary Medical Association. 1984. Nebraska. Biochemical profiling.
 58. Suburban Philadelphia Veterinary Medical Association. 1984. Philadelphia, Pennsylvania. Clinical pathology in small animal practice.
 59. Pfizer Pharmaceuticals. March 6, 1985. Groton, Connecticut. Drug-induced regenerative anemias in laboratory animals.
 60. Southwestern Connecticut Veterinary Medical Association. March 7, 1985. Connecticut. Hemogram interpretation in the dog and cat.
 61. Mid-Atlantic Division of the Society of Toxicology. May 17, 1985. Newark, New Jersey. Identifying hepatotoxicity in drug trials.
 62. American Veterinary Medical Association Annual Meeting. July 22 - 27, 1985. Las Vegas, Nevada. Diagnosis of renal diseases; cytology for practitioners; Biochemical profiling in dogs and cats; Cytologic techniques for technicians; urinalysis for technicians.
 63. Greater Buffalo Veterinary Association. October 30 - 31, 1985. Buffalo, New York.
 64. American Veterinary Medical Association Annual Meeting. July 22 - 27, 1985. Las Vegas,

- Nevada. Diagnostic cytology.
65. American Animal Hospital Association Region I Meeting. November 6 - 10, 1985. Philadelphia, Pennsylvania. Biochemical profiling - introduction to liver, kidney and endocrine diseases; CSF collection techniques; Lymph node cytology; cytohematology; Wet laboratory; Bone marrow collection techniques.
 66. Toronto Veterinary Medical Academy. November 10 - 11, 1985. Toronto, Canada. Biochemical profiling - introduction to liver, kidney and endocrine diseases; Hemogram interpretation.
 67. Society of Ontario Veterinarians. Feb. 1 - 2, 1986. Toronto, Canada. Diagnostic cytology. Intermountain (Western States) Veterinary Meeting. February 15 - 21, 1986. Las Vegas, Nevada. Diagnosis of acute abdominal disease; Cytology of effusions; Cytologic collection techniques; Cytology of inflammation; Significance of red cell morphology.
 68. Southern California Veterinary Medical Association. March 7 - 9, 1986. San Diego, California. Diagnosis of the bleeding dog; Cytology of the upper respiratory tract; Cytology of the lower respiratory tract; Cytology of effusions.
 69. Tuskegee Annual Conference. March 21 - 24, 1986. Tuskegee, Alabama. Red cell fragmentation: good, bad, and ugly (keynote speaker). Biochemical profiling in dogs and cats; diagnostic cytology.
 70. American Animal Hospital Association National Meeting. March 25 - 26, 1986. New Orleans, Louisiana. Blood smear evaluation; Hematology wet laboratory.
 71. National Ortho Users Group Conference. April 10 - 11, 1986. Raritan, New Jersey. Evaluation and recognition of drug-induced anemia.
 72. American College of Veterinary Internal Medicine. May 22 - 24, 1986. Washington, D.C. Hematology short course (12 hours).
 73. Searle Laboratories. June 11, 1986. Chicago, Illinois. Laboratory evaluation of liver disease.
 74. Oak Ridge National Laboratories. June 12, 1986. Oak Ridge, Tennessee. Bronchoalveolar lavage profiling.
 75. 11th Annual Purina Seminar for Small Animal Practitioners. September 23 - 27, 1986. Vermont. Biochemical profiling in dogs and cats.
 76. American Animal Hospital Association Regional Meeting. October 22 - 26, 1986. Charleston, South Carolina. Diagnostic cytology in veterinary practice; Biochemical profiling.
 77. National Bovine Practitioners Meeting. November 17 - 18, 1986. Louisville, Kentucky. Bovine hematology; Interpretation of biochemical profiling.
 78. Eastern States Veterinary Association Meeting. January 21 - 25, 1987. Orlando, Florida. Evaluating feline hemograms; Biochemical profiling; Lymph node cytology.
 79. Western States Veterinary Medical Association Meeting. February 16 - 19, 1987. Las Vegas, Nevada. Hemogram interpretation; Urinalysis; Vaginal cytology.
 80. American Animal Hospital Association Annual Meeting. March 22 - 27, 1987. Phoenix, Arizona. Urinalysis update. Evaluation of cytologic preparations. Cytology I: The basics; Cytology II: Round cells; Cytology III: Body fluids; Cytology IV: Cytology of specialized tissues; Blood reading film session (with Dr. Victor Perman); Update on biochemical profiles.
 81. Veterinary Emergency and Critical Care Society. March 23, 1987. Phoenix, Arizona. Clinical pathology support and findings in the critical/emergency patient.
 82. Swiss Veterinary Congress. May 1987. Basel, Switzerland. White blood cell responses in disease.
 83. University of Zurich. June 1987. Zurich, Switzerland. Veterinary hematology.
 84. Montana State Veterinary Association Meeting. June 28 - July 1, 1987. Kalispell, Montana. Diagnostic cytology.
 85. American Veterinary Medical Association. July 19 - 22, 1987. Chicago, Illinois. Animal technician seminars.

86. C.L. Davis Foundation for the Advancement of Veterinary Pathology. September 13 - 20, 1987. London, England. Hematology of white blood cells; bone marrow cytology.
87. Veterinary Cytology Resource Center's Diagnostic Cytology Symposium. December 3 - 4, 1987. West Lafayette, Indiana. Collection techniques and approach to cytologic evaluation: features of inflammation and neoplasia (with Dr. Victor Perman); The stain controversy: new methylene blue, Wright's and Papanicolaou (with Dr. Victor Perman); Cytology of lymph nodes and round cell tumors (with Dr. Mary Anna Thrall); Cytology of the liver; The Veterinary Cytology Resource Center; Cytology of body cavity fluids; Diagnostic cytology wet laboratory - sessions I and II.
88. 105th Annual Meeting of the Pennsylvania Veterinary Medical Association. December 10, 1987. Champion, Pennsylvania. Diagnostic cytology for practitioners: Interpretive principles, lymph node cytology and evaluation of fluids.
89. New Mexico Academy of Veterinary Practice. December 12 - 13, 1987. Albuquerque, New Mexico. Diagnostic cytology for practitioners: Interpretive principles, lymph node cytology and evaluation of fluids.
90. Central Florida Veterinary Academy Annual Meeting. February 5 - 8, 1988. Orlando, Florida. Biochemical profiling of organ systems.
91. 60th Annual Western States Veterinary Conference. February 15 - 16, 1988. Las Vegas, Nevada. Introduction to biochemical profiling; diagnosis of pancreatic disease; Cytologic evaluations of peritoneal effusions; Blood film interpretation.
92. Annual Ohio Veterinary Medical Association. February 25 - 27, 1988. Columbus, Ohio. Cytologic collection techniques; General principles of cytologic interpretation; Lymph node cytology; plural and peritoneal effusions; Liver cytology; Cytologic findings with common skin lesions; Cytology for technicians.
93. Milwaukee Veterinary Medical Association. March 25 - 27, 1988. Milwaukee, Wisconsin. Diagnostic cytology; hematology.
94. American Animal Hospital Association Annual Meeting. April 18 - 22, 1988. Washington, D.C. Red cell production, destruction and metabolism; Canine regenerative anemias I and II; Blood film reading; What's new: Cytology of vitreous and aqueous fluids; The white blood cell; White blood cell responses in disease I and II; Hands-on workshop. Red cell and platelet disorders; Hands-on workshop: White blood cell disorders.
95. Japanese Society of Veterinary Clinical Pathology. April 30 - May 16, 1988. Osaka, Nagoya, and Tokyo, Japan. Clinical chemistry lecture series.
96. 6th Annual American College of Veterinary Internal Medicine Forum. May 26 - 29, 1988. Washington, D.C. Introduction to biochemical profiling I and II; renal disease I and II; Endocrine disease I, II, and III; Respiratory cytology.
97. Alaska Veterinary Medical Association Annual Meeting. July 16 - 26, 1988. Anchorage, Alaska. Hematology for your practice; Cytology for your practice; Hematology for technicians; Cytology for technicians.
98. 76th Annual Fall Conference for Veterinarians at Purdue University. September 15 - 16, 1988. West Lafayette, Indiana. What's your diagnosis?: Interactive video laboratory; intraophthalmic cytology.
99. 100th Annual California Veterinary Medical Association Meeting. October 28 - 30, 1988. Anaheim, California. Biochemical profiling I: Introduction and interpretive principles; Biochemical profiling II: Liver and renal disease; Diagnostic cytology: Interpretive principles and vaginal cytology; In-house laboratories.
100. 35th Annual Meeting of the Hawaii Veterinary Medical Association. November 11 - 13, 1988. Honolulu, Hawaii. Hematologic interpretation in the horse; Approach to cytologic interpretation and evaluation of plural and peritoneal effusions; Biochemical profiling; Approach to cytologic interpretation; Fine needle biopsy procedures; Aspiration biopsies.
101. Albany Veterinary Medical Association. January 21, 1989. Albany, New York. Hematology for the veterinarian; Cytology wet laboratory.

102. 105th Annual Meeting of the Indiana Veterinary Medical Association. January 30, 1989. Indianapolis, Indiana. Blood disorders and geriatrics.
103. Madison County Veterinary Medical Association. March 4 - 5, 1989. Huntsville, Alabama. Introduction to biochemical profiling and hemogram interpretation; Hemogram interpretation; Profiling of hepatic disease; Profiling of pancreatic disease; Profiling of endocrine disorders; Disease profiling of the urinary tract.
104. Southeast Michigan Veterinary Medical Association. March 8, 1989. Detroit, Michigan. Cytologic collection; General principles of cytologic interpretation; Lymph node cytology; Pleural and peritoneal effusions; Liver cytology.
105. Second Annual Symposium on Veterinary Diagnostic Cytology. March 16 - 18, 1989. St. Paul, Minnesota. Approach to cytologic evaluation and cytology of inflammation; Pleural and peritoneal effusions; Diagnostic cytology two-day hands-on laboratory.
106. 1989 Military Veterinary Conference. April 4, 1989. Washington, D.C. The hemogram. The WBC differential: What it tells you; Anemia - assessing the prognosis; Clinical case assessment.
107. Specialty Seminar for Walter Reed Military Hospital. April 4, 1989. Washington, D.C. Cytology for pathology residents.
108. 56th Annual American Animal Hospital Association. April 7-14, 1989. St. Louis, Missouri. Cytology collection and approach to interpretation; Cytology of effusions; Cytology of the liver; Introduction to biochemical profiling; Profiling of renal disease I and II; Cytology hands-on laboratory.
109. 15th Annual Veterinary Emergency and Critical Care Society Meeting. April 9, 1989. St. Louis, Missouri. Hematology in emergency patients; Interpreting biochemical tests in emergency patients.
110. Annual American Association of Feline Practitioners Meeting. April 10, 1989. St. Louis, Missouri. Cytology and hematology for the feline.
111. Arrowhead Veterinary Medical Association. April 29, 1989. Superior, Wisconsin. Balancing diagnostic skills; tetrad of blood, urine, chemistry, and cytology.
112. Dallas-Ft. Worth Veterinary Seminars. May 21, 1989. Dallas, Texas. Clinical pathology workshop.
113. 81st Annual Meeting of the Tennessee Veterinary Medical Association. August 3-6, 1989. Memphis, Tennessee. White cell response in disease; Collection techniques and general principles of interpretation; Evaluation of anemias; Evaluation of effusions and cytology of the liver; Hematology for technicians; Evaluation of blood films for technicians.
114. Chicago Veterinary Association Meeting. September 10-11, 1989. Chicago, Illinois. Clinical chemistry profiling in the dog and cat (keynote speaker); A case-oriented approach to chemical profiling.
115. D.C. Academy of Veterinary Medicine Meeting. October 4-6, 1989. Washington, D.C. Canine and feline anemias and leukemias (keynote speaker); White blood cell response in disease; Practical hematology for the technician.
116. 62nd Annual Western Veterinary Conference. February 17-21, 1990. Las Vegas, Nevada. Laboratory evaluation of emergency patients; Laboratory evaluation of geriatric patients; the white cell.
117. Georgia Academy of Veterinary Practice. March 9-11, 1990. Atlanta, Georgia. A case oriented approach to clinical pathology; Introduction to biochemical profiling; Biochemical profiling of renal diseases; Biochemical profiling II: Renal & liver; White cell response in diseases; Clinical pathology of exocrine pancreatic disease; Diagnostic cytology-hepatic disease.
118. Diagnostic Cytology Symposium. Purdue University. March 15-17, 1990. West Lafayette, Indiana. Pleural and peritoneal effusions; Cytology of nasal washes, transtracheal aspirates, and bronchopulmonary lavage.
119. American Animal Hospital Association 57th Annual Meeting & 3rd Annual Management Conference - World Small Animal Veterinary Association 15th World Congress. March 24-

- 30, 1990. San Francisco, California. Lab evaluation of geriatric patients; White cell response in disease; Clinical chemistry evaluation of emergency patients; Hematologic evaluation of the emergency patient.
120. Metropolitan New Jersey Veterinary Medical Association. April 17-19, 1990. Newark, New Jersey. Diagnostic cytology I: Collection techniques; Diagnostic cytology in veterinary practice.
 121. Utah Veterinary Medical Association Meeting. June 28-29, 1990. Provo, Utah. New look at hematology in diagnosis; Clinical pathology of the liver, spleen and kidney.
 122. 127th Annual Meeting of the American Veterinary Medical Association. July 20-25, 1990. San Antonio, Texas. Laboratory evaluation of the geriatric patient; Getting the maximum from that urine sample; Canine-cytological evaluation of the respiratory tract; Evaluating anemias in the cat; Cytology for the veterinary technician; Cytologic collection techniques and general approach to interpretation.
 123. Central Veterinary Conference. August 28-30, 1990. Kansas City, Missouri. Laboratory evaluation of renal disease; Laboratory evaluation of hepatic disease; Laboratory evaluation of pancreatic disease; Evaluation of pleural, peritoneal and pericardial effusion; Cytologic collection and general approach to interpretation; Cytology of the respiratory tract.
 124. C. L. Davis European Pathology Symposium. September 11-13, 1990. Harrogate, North Yorkshire, England. Integrated hematology and clinical chemistry in animals.
 125. Second Annual International Veterinary Emergency and Critical Care Symposium. September 16-18, 1990. San Antonio, Texas. Hematologic evaluation of the emergency patient; Clinical chemistry in the emergency patient.
 126. Eastern States Veterinary Conference. January 11-15, 1991. Orlando, Florida. General approach to cytologic evaluation; Cytology of inflammatory lesions; Cytology of hemic neoplasia; cytology of fluids; Cytology of lumps and bumps; Hematology slide reading.
 127. 58th Annual Meeting of the American Animal Hospital Association. April 13-18, 1991. Toronto, Canada. Getting the most out of urinalysis; bone marrow evaluation in practice; Blood film reading.
 128. Danish Small Animal Veterinary Association. May 31-June 1, 1991. Hellerup, Denmark. Interpretation of hemogram based on actual cases; Principles of biochemical profile interpretation; Biochemical reaction in kidney disease; Biochemical reactions in liver disease.
 129. Armed Forces Institute of Pathology Laboratory Animals Course. August 12-16, 1991. Bethesda, Maryland. Highlights of clinical pathology.
 130. Cytologic Diagnosis in Veterinary Medicine Symposium. September 12-14, 1991. Zurich, Switzerland. Cytology of liver; Cytology of synovial fluid; Cytology of pleural, peritoneal, and pericardial effusions; Collection techniques and cytologic evaluation.
 131. World Small Animal Veterinary Association World Congress. October 2-5, 1991. Vienna, Austria. Diagnosis of liver disease; Evaluation of the feline hemogram; Laboratory profiling of geriatric patients.
 132. American Animal Hospital Association Northeast Regional Meeting. October 31-November 3, 1991. Hyannis, Massachusetts. Interpreting hemograms; Introduction to biochemical profiling and evaluation of renal disease; Biochemical profiling of liver and pancreatic diseases; Geriatric profiling - a legitimate practice builder; What should I do in my in-house lab?; Blood film reading; Clinical pathology for veterinary technicians - an overview of cytology, Hematology and urinalysis.
 133. Fourth Symposium in Veterinary Diagnostic Cytology. November 14-16, 1991. Fort Collins, Colorado. Bone marrow cytology; Cytology of peripheral blood cells.
 134. Eastern States Veterinary Conference. January 11-16, 1992. Orlando, Florida. General approach to cytologic evaluation; Cytology of inflammatory lesions; Cytology of neoplasia; Cytology of fluids; Cytology of lumps and bumps.
 135. Denver Area Veterinary Medical Society Meeting. February 12, 1992. Denver, Colorado. Systems approach to clinical pathology.

136. D.C. Academy of Veterinary Medicine. March 5, 1992. Washington, D.C. Hematology and chemical evaluation of the emergency patient.
137. Cleveland Academy of Veterinary Medicine. March 18, 1992. Cleveland, Ohio. Evaluation of geriatric patient; Evaluation of pleural, peritoneal and pericardial effusions.
138. South Georgia Veterinary Medical Association. April 12, 1992. Tifton, Georgia. Diagnostic cytology and hematology.
139. 59th Annual Meeting of the American Animal Hospital Association. April 25-20, 1992. New Orleans, Louisiana. White cell responses in disease; Cytology workshop; Blood film reading.
140. International Symposium of the Society of Toxicologic Pathologists. May 31-June 5, 1992. Phoenix, Arizona. General responses of the bone marrow to injury.
141. Japanese Animal Hospital Association. June 9-July 1, 1992. Tokyo, Japan. Cytology of lymph nodes; Pleural and peritoneal effusions; Cytology of skin, liver, synovial fluids; Biochemical profile of urinary system, liver disease, exocrine, and endocrine.
142. 129th Annual Meeting of the American Veterinary Medical Association. August 1-5, 1992. Boston, Massachusetts. Interpretation of hemogram data; Laboratory evaluation of hepatic, renal and pancreatic disease; Evaluation of pleural, peritoneal and pericardial effusions; Cytology of the respiratory tract.
143. Third International Veterinary Emergency and Critical Care Symposium. September 20-23, 1992. San Antonio, Texas. Blood films and cytology in emergency patients; Case studies - hematology in emergency patients, cytology findings in emergency patients.
144. Indiana Veterinary Medical Association. February 5-7, 1993. Indianapolis, Indiana. Diagnostic cytology: Collection techniques and interpretive principles; The in-house hematology laboratory; Getting the most out of urinalysis.
145. American Association of Feline Practitioners. February 7-9, 1993. Reno, Nevada. Feline hematology and cytology.
146. 65th Annual Western Veterinary Conference. February 14-18, 1993. Las Vegas, Nevada. Hematology slide evaluation; Hemogram interpretation.
147. American Animal Hospital Association 60th Annual Meeting. March 13-18, 1993. Seattle, Washington. Evaluating the cytologic specimen.
148. 2nd European Symposium of Diagnostic Cytology. March 25-27, 1993. Zurich, Switzerland. Introduction to veterinary cytology: Collection techniques and interpretive principles; Cytology of effusions.
149. Comparative Pathobiology of Environmental Disasters. April 19-20, 1993. Rockville, Maryland. Water pollution: The Exxon Valdez experience (participated in case study presentation).
150. Ninth Annual Veterinary Technicians and Staff EXPO 93. May 2, 1993. Dallas, Texas. Blood film evaluation: The good, the bad, and the ugly.
151. Ninth Annual Veterinary Technicians and Staff EXPO 93. June 27, 1993. Atlanta, Georgia. Blood film evaluation: The good, the bad, and the ugly.
152. Orange Belt Veterinary Medical Association meeting. July 24, 1993. Riverside, California. Interpretation of the hemogram; Biochemical profile interpretation.
153. Ninth Annual Veterinary Technicians and Staff EXPO 93. July 25, 1993. Anaheim, California. Blood film evaluation: The good, the bad, and the ugly.
154. Arizona Academy of Veterinary Practice. August 13-15, 1993. Sedona, Arizona. A case-oriented approach to hematology and cytology.
155. Purdue University 81st Annual Veterinary Conference. September 9-10, 1993. West Lafayette, Indiana. A case-oriented approach to hemogram interpretation; Blood film evaluation; Diagnostic cytology - introduction and slide interpretation; Cytology slide interpretation; Biochemical profiling; An integrated approach to diagnosis and management of abdominal diseases in horses.
156. Central Illinois Veterinary Medical Association meeting. September 14, 1993. Springfield,

- Illinois. Hematology and cytology.
157. Kansas City Veterinary Medical Association. October 21, 1993. Kansas City, MO. A case-oriented approach to hemogram interpretation.
 158. Veterinary Technicians and Assistants Association of Pennsylvania. October 23, 1993. Harrisburg, PA. Blood film evaluation; Getting the most out of urinalysis; Cytology for technicians.
 159. Wabash Area Lifetime Learning Association (WALLA). November 9, 1993. West Lafayette, IN. Animals in the environment: The Exxon Valdez story.
 160. Minnesota Veterinary Medical Association. February 5, 1994. Minneapolis, MN. Hemogram interpretation and clinical chemistry.
 161. Western Veterinary Conference. February 1994. Las Vegas, NV. Multiple topics in clinical pathology.
 162. American Animal Hospital Association. March 1994. Boston, MA. Multiple topics in clinical pathology. Southern California Veterinary Medical Association. March 1994. Manhattan Beach, CA. Veterinary Hematology.
 163. Danish Veterinary Medical Association. May 1994. Copenhagen, Denmark. Diagnostic cytology workshop.
 164. Lifelearn V - Seminar Series. June, October, December, 1994. Guelph, Ontario, CA. Hematology, cytology and clinical chemistry lecture and laboratory series.
 165. Cytology Resource Center Annual Symposium. July 1994. Fort Collins, CO. Cytology of the hemopoietic system.
 166. New Mexico Veterinary Medical Association. July 1994. Cloudcroft, NM. Multiple topics in clinical pathology.
 167. Central Veterinary Conference. August 1994. Kansas City, MO. Multiple topics in clinical pathology.
 168. Region I American Animal Hospital Association. November 1994. Toronto, CA. Multiple topics in clinical pathology.
 169. North American Veterinary Conference. January 1995. Orlando, FL. Multiple topics in clinical pathology.
 170. American Animal Hospital Association. March 1995. Denver, CO. Multiple topics in clinical pathology.
 171. Third European Symposium on Diagnostic Cytology. April 1995. Zurich Switzerland. Urinalysis, cytology of the upper respiratory tract.
 172. First World Conference on Spontaneous Animal Tumors. April 1995. Genoa, Italy. Cytology of round cell tumors.
 173. North American Veterinary Conference. January 1996. Orlando, FL. Interpretation of CBC: Case Presentation-Part 1 and 2; Interpretation of biochemical profiles; Multiple topics in cytology.
 174. Alabama Academy of Veterinary Practitioners. February 1996. Auburn, AL. A case-oriented approach to hemogram interpretation; A case-oriented approach to laboratory profiling.
 175. Indiana Veterinary Medical Association Annual Meeting. February 1996. Indianapolis, IN. Clinical pathology of exocrine pancreatic disease; Interpretation of the hemogram; Introduction to biochemical profiling; Biochemical profiling of renal disease; Profiling in endocrine disease; Clinical pathology of hepatic disease.
 176. Western Veterinary Conference. February 1996. Las Vegas, NV. Multiple topics in cytology.
 177. American Animal Hospital Association. March 1996. San Antonio, TX. Red cell morphology in disease; White cell responses in disease; Abnormal red cell shapes – the good, the bad, the ugly.
 178. British Small Veterinary Association Annual Congress. April 1996. Birmingham, England. Clinical pathology: Case oriented approach to biochemical profiling.

179. District of Columbia Academy of Veterinary Medicine. May 1996. Fairfax, VA. Introduction to biochemical profiling; Biochemical profiling II: renal & liver disease; Interpretation of the hemogram.
180. New England Veterinary Medical Association. September 1996. Falmouth, MA. Multiple topics in clinical pathology.
181. Fifth International Emergency and Critical Care Symposium. September 1996, San Antonio, TX. Multiple topics in cytology.
182. North American Veterinary Conference. January 1997. Orlando, FL. Cytological interpretation.
183. Western Veterinary Conference. February 1997. Las Vegas, NV. Multiple topics in clinical pathology.
184. American Animal Hospital Association. March 1997. San Diego, CA. Multiple topics in clinical pathology.
185. Alabama Veterinary Medical Association Annual Meeting. June 1997. Orange Beach, AL. Introduction to biochemical profiling; Biochemical profiling II: renal and liver; Interpretation of the hemogram.
186. Greater Baltimore Veterinary Medical Association Annual Meeting. October 1997. Baltimore, MD. Multiple topics in clinical pathology.
187. Veterinary Surgical Consultants. October 1997. Newark, NJ. Multiple topics in cytology.
188. American College of Veterinary Pathologists. November 1997. Albuquerque, NM. Environmental toxicologic pathology: the effects of the Exxon Valdez oil spill on sea otters.
189. North American Veterinary Conference. January 1998. Orlando, FL. Diagnostic cytology II; Evaluation of pleural, peritoneal, and pericardial effusions.
190. Congress of Small Animal Diseases. February 1998. Rhon, Holland. Biochemical profiling of renal diseases; White blood cell responses in disease; Red blood cell responses in disease.
191. American Animal Hospital Association. March 1998. Chicago, IL. Cytologic Evaluation of Lymph Nodes.
192. The Central Veterinary Conference. August 1998. Kansas City, MO. Getting the most out of urinalysis; Diagnostic cytology; A case-oriented approach to the hemogram; Biochemical profiling in dogs and cats.
193. Irish Veterinary Congress. October 1998, Cork, Ireland. Interpretation of the hemogram & choosing metabolic profiles.
194. North American Veterinary Conference. January 1999. Orlando, FL. General principles of cytologic interpretation; Cytology of inflammatory lesions I and II; Cytology of fluids I.
195. AAHA Technician Academy. April 1999, Washington, DC. June 6, 1999, Seattle, WA. White cell responses in disease; Red cell and platelet responses in disease; Hemogram interpretation.
196. Göteborg International Veterinary Meeting. August 1999. Göteborg, Sweden. Interpretation of the hemogram; Biochemical profiling I: Exocrine pancreatic disease; Biochemical profiling II: Renal and liver disease.
197. Wild West Veterinary Conference. October 1999. Reno, NV. A case-oriented approach to hemogram interpretation; White cell responses in disease; Red cell responses in disease; General principles of cytologic interpretation; Cytological evaluation of pleural & peritoneal effusions; Cytological evaluation of skin lesions.
198. North American Veterinary Conference. January 2000. Orlando, FL. Cytologic features of cancer; Cytologic evaluation of pleural and peritoneal effusions I; Cytologic evaluation of pleural and peritoneal effusions II; Cytologic evaluation of skin lesions, liver and lymph nodes.
199. IVMA Sea Breeze Cruise, February-March 2000. Western Caribbean. A case-oriented approach to hemogram interpretation; Biochemical profiling: general introduction and urinary tract disease; Biochemical profiling of hepatic disease; Biochemical profiling of exocrine pancreatic disorders; Diagnostic cytology in daily practice.

200. American Animal Hospital Association. March 2000. Toronto, Canada. Getting the most out of urinalysis; Cytology for technicians.
201. Armed Forces Institute of Pathology. April 2000. Washington, DC. Weekly Slide Conference, Invited Course Moderator.
202. Alameda County Veterinary Medical Association. May 2000. Oakland, CA. Interpreting the hemogram; Laboratory evaluation of the liver; Profiling the urinary system.
203. Faculty of Veterinary Medicine, University College Dublin. June 2000. Dublin, Ireland. Consultant on University and School Organization and Structure.
204. American Veterinary Medical Association. July 2000. Salt Lake City, UT. Chair session on The Changing Face of Veterinary Practice—Diagnosis and Treatment in the Next Century.
205. Armed Forces Institute of Pathology. October 2000. Washington, DC. Weekly Slide Conference, Invited Course Moderator.
206. North American Veterinary Conference. January 2001. Orlando, FL. Diagnosis of anemia in dogs; Evaluating inflammatory lesions I & II; Cytology of lumps and bumps I & II; Cytology of effusions I.
207. Indiana Veterinary Medical Association. January 2001. Indianapolis, IN. A case-oriented approach to hemogram interpretation I & II; Biochemical profiling: general introduction & urinary tract disease; Biochemical profiling of hepatic disease.
208. Midwest Veterinary Conference. February 2001. Columbus, OH. White cell responses in disease; Red cell responses in disease; Urinalysis for technicians; Case presentations and case treatment/management; Hematology wet lab—evaluating the blood film I, II & II; Cytology wet lab—evaluating the cytologic smear I, II & III.
209. American Animal Hospital Association. March 2001. San Antonio, TX. Cytology technician lab; Blood film analysis; Blood film reading.
210. Cytology Symposium, University of Veterinary Medicine. June 2001. Vienna, Austria. Case-Oriented approach to hemogram interpretation; White cell responses; Red cell responses; Bone marrow evaluation in dogs and cats; Bone marrow interpretation; Cytologic evaluation of lymph nodes; Urinalysis; Diagnostic approach to pleural and peritoneal effusions; Cytologic evaluation of liver.
211. Tufts Animal Expo. October 2001. Boston, MA. Introduction to biochemical profiling; A case-oriented approach to clinical pathology of the urinary system I & II; A case-oriented approach to clinical pathology of the liver I & II; A case-oriented approach to clinical pathology of the pancreas; A case-oriented approach to hemogram interpretation I, II & III; Introduction to cytology; Interpretation of pleural and peritoneal effusions I & II.
212. North American Veterinary Conference. January 2002. Orlando, FL. Cytology of inflammation I & II; Cytology of neoplasms I; Cytology of the respiratory tract I & II.
213. Michigan Veterinary Conference. January 2002. East Lansing, MI. Cytology collection technique and slide preparation; General approach to cytologic interpretation; Cytology of inflammation; Pleural & peritoneal cytology; Cytology of lumps & bumps; Laboratory evaluation of urinary tract disease (including urinalysis).
214. American Animal Hospital Association. March 2002. Boston, MA. Bone marrow evaluation in dogs and cats; Blood film readings; A case based approach to hemogram interpretation I, II & III.
215. IDEXX CE Presentation, April 2002. Falls Church, VA.
216. Southeast Veterinary Conference. June 2002. Myrtle Beach, SC. A case-oriented approach to hemogram interpretation and introduction to biochemical profiling; A case-oriented approach to biochemical profiling of the urinary system; A case-oriented approach to biochemical profiling of the live r and exocrine pancreas.
217. Central Veterinary Conference. August 2002. Kansas City, MO. Hematology testing: a critical component of a thorough diagnostic work-up.
218. IDEXX CE Presentations, October 2002. Dallas, TX and San Francisco, CA. Clinical Pathology for Small Animal Practitioners.

219. North Carolina Veterinary Conference. November 2002. Raleigh, NC. Case-oriented approach to hemogram interpretation I, II & III; Introduction to biochemical profiling and profiling the urinary system I, II & III; Case-oriented approach to profiling the liver and exocrine pancreas I, II & III.
220. North American Veterinary Conference. January 2003. Orlando, FL. Cytologic features of inflammation; Cytologic criteria of malignancy; Etiologic agents and their cytologic reaction I & II; Cytology of skin masses I, II & III; Getting the most out of laboratory data: case studies; Using WBC information more effectively – a logical approach.
221. Indiana Veterinary Medical Association. January 2003. Indianapolis, IN. Red and white cell responses in disease.
222. Western Veterinary Conference. February 2003. Las Vegas, NV. Case hemogram interpretations I, II & III; Liver profiling I & II; Blood film evaluation: red cell responses; Blood film evaluation: white cell responses; Cytologic interpretation in inflammation; Cytologic features of malignancy; Cytology of pleural and peritoneal effusions I & II; Tips for collecting bone marrow.
223. Flims Symposium. March 2003. Flims, Switzerland. Bone marrow responses in health and disease; Normal structure and function in leukocytes; Hematology case studies.
224. American Animal Hospital Association. March 2003. Phoenix, AZ. Blood film readings.
225. Cytology Symposium, University of Veterinary Medicine. June 2003. Vienna, Austria and Faculty of Veterinary Medicine in Brno, Czech Republic. Principles of Cytologic Interpretation, Inflammatory Reactions/Criteria of Malignancy, Cytology of Effusions, Cytology of Lumps and Bumps, Hemogram Interpretation in Dogs and Cats: A Case-Oriented Approach.
226. Central Veterinary Conference. August 2003. Kansas City, MO. Diagnostic Cytology for Technicians, A Case-Oriented Approach to Hemogram Interpretation, An Introduction to Biochemical Profiling: A Case Oriented Approach to Evaluation of the Urinary System, A Case-Oriented Approach to Evaluating Liver Disease, A General Approach to Diagnostic Cytology, Clinical Laboratory Findings in Case Studies.
227. Japanese Animal Hospital Association. December 2003. Tokyo & Osaka, Japan. Case-Oriented Approach to Hemogram Interpretation, Diagnostic Cytology I, Diagnostic Cytology II: Evaluating Effusions, Diagnostic Cytology III: Cytology of Lumps and Bumps, Exocrine Pancreatic Disease, Biochemical Profiling of Urinary Tract Disease, A Case Oriented Approach to Biochemical Profiling: Liver Disease, A Case Oriented Approach to Biochemical Profiling: Exocrine Pancreatic Disease.
228. North American Veterinary Conference. January 2004. Orlando, FL. Blood Film Challenges: Getting the Most from Blood Cell Morphology, Cytology of Inflammatory Lesions, Cytology of Neoplasia, Cytology of Body Fluids I, II & III, Cytology of Common Dermal Lesions I, II & III.
229. Midwest Veterinary Conference. February 2004. Columbus, OH. Case Oriented Approach to Hemogram Interpretation I, II & III, A Case Oriented Approach to Biochemical Profiling I & II. Evaluating the Urinary System, A Case Oriented Approach to Biochemical Profiling. Evaluating the Liver.
230. Flims Hematology Conference. March 2004. Flims, Switzerland. Bone marrow responses in health and disease; Normal structure and function in leukocytes; Hematology case studies.
231. American Animal Hospital Association. March 2004. Tampa, FL. Blood Film Reading.
232. American Veterinary Medical Association. July 2004. Philadelphia, PA. Case Rounds: Clinical Pathology & Internal Medicine Perspective on Challenging Cases, A Case-Oriented Approach to Liver Disease, Blood Film Evaluation: Videomicroscopy of Blood Films to Demonstrate the Microscopic Recognition of Hematologic Abnormalities, Videomicroscopy: General Cytology – Features of Inflammation and Malignancy, Videomicroscopy: Cytology of Fluids, Clinical Pathology: Hematology Laboratory, Clinical Pathology: Cytology Laboratory.
233. Northeast Veterinary Conference. August 2004. Providence, RI. Veterinary Technicians in Private Practice: Looking Back and Looking Ahead, Blood Film Evaluation: The Good, the

- Bad and the Ugly I & II, Red & White Cell Responses in Disease I, II & III, Case- Oriented Approach to Hemogram Interpretation.
234. Atlantic Coast Veterinary Conference. October 2004. Atlantic City, NJ. Interactive Diagnostic Cytology for Practitioners, Interactive Clinicopathologic Case Discussions, Biochemical Profiling in Urinary Tract Disease, Biochemical Profiling in Hepatic Disease.
 235. IDEXX CE Presentations. November 2004. Oak Brook, IL and Burnsville, MN. Case-Oriented Approach to Hemogram Interpretation.
 236. North American Veterinary Conference. January 2005. Orlando, FL. Cytology of Inflammation, Cytology of Neoplasia, Cytology of Internal Organs (Liver, Spleen, thyroid, etc.).
 237. Indiana Animal Health Foundation Cruise. March 2005. Panama. Cytologic Evaluation of the Skin, Cytology Collection Techniques, Evaluation of Effusions, General Approach to Cytologic Interpretation, interpretation of Lymph Node Cytology, respiratory Cytology.
 238. Cytology Symposium, University of Veterinary medicine. June 2005. Vienna, Austria. Introduction to Laboratory Profiling and Recognizing Acid-Base Disturbances, Profiling the Urinary System and Urinalysis, Profiling the Liver and Exocrine pancreas, Cytology Case Studies by Videomicroscopy.
 239. American Veterinary Medical Association. July 2005. Minneapolis, MN. Biochemical Profiling: Urinary Disease, Biochemical Profiling: Liver Disease; Clinical Pathology: Hematology Laboratory, Clinical Pathology: Cytology Laboratory.
 240. Clinical Pathology Symposium, Purdue University. July 2005 (Sponsored by IDEXX). White Blood Cells Lab; Red Blood Cells Lab; Approach to Complete Hemogram Data and Blood Smears; Case Studies.
 241. Toronto Academy of Veterinary Medicine. October 2005. Toronto, Canada. Case Oriented Approach to Hemogram Interpretation; Introduction to Biochemical Profiling and Biochemical Profiling in Urinary Tract Disease; Biochemical Profiling in Hepatic Disease.
 242. North American Veterinary Conference. January 2006. Orlando, FL. Moderate Case Challenge Series on Hematology/Cytology; Moderate Cytology Symposium.
 243. Indiana Veterinary Medical Association Annual Meeting. January 2006. Indianapolis, IN. General Approach to Cytologic Interpretation; Cytologic Evaluation of Pleural and Peritoneal Effusions; Cytologic Evaluation of Lymph Nodes and Liver; Cytologic Evaluation of Skin.
 244. Northern Kentucky Veterinary Medical Association. March 2006. Cincinnati, OH. Case Oriented Approach to Hemogram Interpretation; Introduction to Biochemical Profiling and Urinary Tract Disease; Profiling the Liver.
 245. American Animal Hospital Association Annual Meeting. March 2006. Long Beach, CA. A Case Oriented Approach to Urinary Tract Disease, Part I & II; A Case Oriented Approach to Hemogram Interpretation Part I, II and III; Battle of the Bloods, Blood Film Reading.
 246. Engineering Development Forum Conference. June 2006. Corvallis, OR. Purdue's Discovery Park.
 247. World Small Animal Veterinary Association Congress. October 2006. Prague, Czech Republic. Interpreting Hemograms: White Cell Disorders Part 1 and 2; Interpreting Hemograms: Red Cell Disorders Part 1 and 2; Cytology of Inflammation; Cytology of Neoplasia; Cytology of Effusions; Cytology of Lumps & Bumps; Cytology of Internal Organs.
 248. Colonial Veterinary Conference. November-December 2006. Williamsburg, VA. Case Oriented Approach to Hemogram Interpretation; Urinalysis; Introduction to Biochemical Profiling & Profiling the Urinary System; A Case Oriented Approach to Liver Disease; Cytology for Practitioners;
 249. North American Veterinary Conference. January 2007. Orlando, FL. Cytology of Inflammatory Lesions; Cytology of Neoplasia; Cytology of Body Fluids (Pleural, Peritoneal, Pericardial, Cerebrospinal, Respiratory & Synovial); Cytology of Lumps and Bumps.
 250. New Jersey Veterinary Medical Association Meeting. March 2007. Florham Park, NJ. A Case Oriented Approach to Hemogram Interpretation I, II & III; Introduction to Biochemical Profiling and Profiling the Urinary System; A Case Oriented Approach to the Diagnosis of

Liver Disease; Biochemical Profiling of the Exocrine Pancreas; Diagnostic Cytology for Practitioners.

251. American Animal Hospital Association Annual Meeting. March 2007. Denver, CO. Blood Film Reading.
252. Central Veterinary Conference East. April 2007. Baltimore, MD. Case Oriented Approach to Hemogram Interpretation; Introduction to Biochemical Profiling and Profiling the Urinary System; Case Oriented Approach to Diagnosing Liver Disease; Diagnostic Cytology for Practitioners; Cytology for Technicians.
253. American Veterinary Medical Association Annual Meeting. July 2007. Washington, DC. Case Oriented Approach to Hemogram Interpretation; Introduction to Biochemical Profiling and Profiling the Urinary System; Hematology Lab; Cytology Lab.
254. Mayo Department of Medicine Research Innovation Summit. September 2007. Rochester, MN. Capitalizing on Discovery – Purdue’s Discovery Park.
255. Pre-Congress Programme – European Society of Veterinary Clinical Pathology. September 2007. Budapest, Hungary. Bone Marrow Cytology Evaluation in Dogs and Cats.
256. Atlantic Coast Veterinary Conference. October 2007. Atlantic City, NJ. Case Oriented Approach to Hemogram Interpretation I, II & III; Introduction to Biochemical Profiling and Profiling the Urinary System; General Approach to Cytologic Interpretation; Cytology of Pleural and Peritoneal Effusions; Cytology of Lymph Nodes; Profiling the Liver.
257. Alpe Adria Diagnostic Cytology Symposium. October 2007. Ljubljana, Slovenia. General Approach to Cytology, Collection and Preparation Techniques; Cytology in Inflammatory Processes; Tumor Cytology; Cytology of Effusions; Case Studies.
258. North American Veterinary Conference. January 2008. Orlando, FL. Chemistry: Profiling and Trending; General Approach to Cytologic Interpretation; Cytology of Inflammation; Cytology of Neoplasia; Cytology of Blood & Bone Marrow I & II; Cytology of Internal Organs.
259. American Association of Feline Practitioners Conference. February 2008. Palm Springs, CA. Feline Hematology I: White Cell Responses; Feline Hematology II: Red Cell Responses; Cytology of Effusions; Laboratory Profiling.
260. Western Veterinary Conference. February 2008. Las Vegas, NV. Interpreting the Hemogram – What Every Practitioner Should Know; Anemia Case Challenge: Regenerative, Nonregenerative, and Everything In-Between; Chemistry Confusion Case Challenge: When the Blood Work Just Doesn’t Make Sense; It’s Getting HOT in Here- FUOs, UFOs, & Other Unexplained Phenomena; Renal Disease Case Challenge: Tips to Improve Your Renal Disease Diagnostics; Liver Disease Case Challenge: Catching It Before Your Patients Turn Yellow; Coagulation Case Challenge: A Practical Approach to the Bleeding Patient; The Most Perplexing of All: The ADR.
261. Mayo Clinic Center for Innovation. June 2008. Rochester, MN. Discovery Park: A Paradigm for Interdisciplinary Research.
262. 33rd Annual World Small Animal Veterinary Association Meeting. August 2008. Dublin, Ireland. A Case Oriented Approach to Liver Laboratory Profiling in Dogs and Cats; A Case Oriented Approach to Urinary System Laboratory Profiling in Dogs and Cats; Cytology of Lumps and Bumps; Cytology of Lymph Nodes – What You Need to Know.
263. Washington State Veterinary Medical Association Meeting. October 2008. Spokane, WA. Introduction to Laboratory Profiling; Case Oriented Approach to Hemogram Interpretation I, II, and III; Profiling the Liver; Profiling the Urinary System I and II.
264. North American Veterinary Conference. January 2009. Orlando, FL. Laboratory Profiling: Case Studies; Cytologic Techniques and Approach to Interpretation.
265. Indiana Veterinary Medical Association Meeting. February 2009. Indianapolis, IN. Looking Back to the Future: A Historical Perspective of PUSVM Research; White Cell Responses in Disease; Red Cell Responses in Disease; General Approach to Cytologic Interpretation; Effusion Cytology.
266. Western Veterinary Conference. February 2009. Las Vegas, NV. Interpreting the Hemogram: What Every Practitioner Should Know; Chemistry Confusion Case Challenge:

- When the Blood Work Just Doesn't Make Sense; I Need a CBC, Chem. 12, & UA Stat! Emergency Testing for Emergency Cases; Most Perplexing of All: The ADR "Ain't Doin' Right" Case.
267. California Veterinary Medical Association Conference. March 2009. Yosemite, CA. Case Oriented Approach to Hemogram Interpretation; General Approach to Biochemical Profiling and Profiling the Urinary Tract; A Case Oriented Approach to Liver Disease.
 268. American Animal Hospital Association Annual Meeting. March 2009. Phoenix, AZ. Cytology via Videomicroscopy; Blood Film Evaluation via Videomicroscopy; How I Diagnose & Differentiate Hemolytic Anemias; White Cell Responses in Disease: A Case Oriented Approach; Red Cell Responses in Disease: A Case Oriented Approach; Laboratory Profiling in Liver Disease: A Case Oriented Approach.
 269. Alpe Adria Diagnostic Cytology Symposium. June 2009. Italy. General Approach to Cytology. Collection and Smear Preparation; Cutaneous and Subcutaneous Lesions; Lymph Node Cytology.
 270. Southern Veterinary Conference. August 2009. Birmingham, Alabama. Case Oriented Approach to Hemogram Interpretation; Introduction to Biochemical Profiling and Profiling the Urinary System; Cytologic Collection Techniques and Approach to Interpretation; Cytology of Effusions; Urinalysis.
 271. Central Veterinary Conference. August 2009. Kansas City, MO. A Case Oriented Approach to Hematologic Interpretation - Introduction; Red Cell Responses in Disease; White Cell Responses in Disease; In-House Laboratory Profiling: Challenges and Opportunities; Cytologic Collection Techniques and an Organized Approach to Cytologic Interpretation; Cytology of Effusions; Cytology of Lymph Nodes; Cytology of Lumps and Bumps; Introduction to Laboratory Profiling; Laboratory Profiling of the Urinary System: A Case Oriented Approach; Cytology for Technicians.
 272. Atlantic Coast Veterinary Conference. October 2009. Atlantic City. Introduction to Biochemical Profiling and Profiling the Urinary System; Profiling the Liver; Approach to Cytologic Interpretation; Cytology of Effusions; Lymph Node Cytology; Live Microscopic Examination of Blood Films: Part I, II & III.
 273. Buffalo Academy. March 2010. Niagara Falls, NY. Laboratory Profiling in Dogs and Cats; Diagnostic Cytology for Technicians.
 274. Animal Medical Center. April 2010. New York, NY. White Blood Cell Responses. Part I & II; Organ System Profiling - An Overview.
 275. Parkland College Fall Conference for Veterinary Technicians. September 2010. Urbana, IL. Red and White Cell Responses in Disease; Evaluating and Interpreting Urinalysis; Cytology for Veterinary Technicians.
 276. Central Veterinary Conference. November 2010. San Diego, CA. Cytology Skills Wet Lab; A Case-Based Approach to Hematologic Interpretation; Cytology of Effusions; Cytology of Lymph Nodes.
 277. American Animal Hospital Association Annual Meeting. March 2011. Toronto. Blood Film Reading; Cytology for Practitioners: Cytology of Lumps & Bumps; Cytology for Practitioners: Effusions;
 278. New Hampshire Veterinary Medical Association Meeting. April 2011. Manchester, NY. A Case Oriented Approach to Hemogram Interpretation I: White Cell Responses; A Case Oriented Approach to Hemogram Interpretation II: Red Cell Responses; A Case oriented Approach to Chemistry Profiling I: Introduction and the Urinary System; A Case Oriented Approach to Chemistry Profiling II: Liver Disease.
 279. 3rd Alpe-Adria Diagnostic Cytology Symposium. May 2011. Carinthia, Austria. An Overview of Cytologic Slide Interpretation; General Cytologic Responses; Evaluating Cavity Fluids: Common Cytologic Findings; Common Mistakes and Artifacts in the Workup of Cytologic Specimen; Cytology of Lumps, Bumps and Internal Organs; Mystery Cases.
 280. Served as a Panelist at the Indianapolis Business Journal Life Sciences Breakfast. July 2011. Indianapolis, IN.

281. Wild West Veterinary Conference. October 2011. Reno, NV. A Case Oriented Approach to Hemogram Interpretation I: White Cell Responses in Disease; A Case Oriented Approach to Hemogram Interpretation II: Red Cell Responses in Disease; Cytologic Collection Techniques and Approach to Interpretation; Cytology of Effusions and Lymph Nodes; A Case Oriented Approach to Clinical Chemistry I: Introduction and Evaluation of the Urinary System; A Case Oriented Approach to Clinical Chemistry II. Liver Profiling.
282. Parkland College Fall Conference for Veterinary Technicians. October 2011. Urbana, IL. Blood Film Evaluation: White Cell Responses; Blood Film Evaluation: Red Cell Responses; Cytologic Findings in Inflammation; Effusion Cytology; Cytology of Lumps and Bumps.
283. Missouri Veterinary Medical Association Meeting. January 2012. St. Charles, MO. The 3 Minute Blood Film Evaluation; Principles of Cytologic Evaluation; Cytology of Effusions; Profiling the Urinary System Including Urinalysis.
284. 4th Alpe-Adria Diagnostic Cytology Symposium, March 2012. Portoroz, Slovenia. Introduction to Lab Profiling, Urinary Profiling, Profiling the Liver, Lymph Node Cytology
285. Central New York Academy of Continuing Education, September 2012. Case Oriented Approach to White Cell Interpretation, Introduction to Laboratory Profiling and Profiling the Urinary System.
286. The Asia Pacific Veterinary Conference 2012, October 2012. Bangkok, Thailand. Hemogram Interpretation I – White Cell Responses, Hemogram Interpretation II – Red Cell Interpretation, Evaluating and Interpreting Urinalysis, Laboratory Profiling the Liver, General Approach to Cytology in Veterinary Practice, Effusion Cytology, Challenging Cases: A Systematic Approach to Laboratory Profiling.
287. Hong Kong Vet Association, October 2012. Hong Kong, China. An Introduction to Laboratory Profiling, Profiling the Urinary System.
288. 2013 Conference for Veterinary Care, May 2013. Washington, DC. Clinical Pathology - Cytology for Technicians, Case-oriented Approach to the CBC - Red Cell Responses, Case-oriented Approach to the CBC - White Cell Responses, Introduction to Clinical Laboratory Profiling - Chemistry Confusion, Evaluating Bone Marrow in Dogs, Laboratory Profiling the Urinary System: A Case-based Approach, Laboratory Profiling the Liver – A Case-based Approach, Cytology for Practitioners – An Overview
289. Southwest Veterinary Symposium, September 2013. San Antonio, TX. A General Approach to Cytologic Collection & Interpretation: Part I, A General Approach to Cytologic Collection & Interpretation: Part II, Cytology of Pleural and Peritoneal Effusions, Lymph Node Cytology, Biochemical Profiling of Liver Disease, Master Class on Hematology and Cytology
290. 15th Annual Conference of the European Society of Veterinary Clinical Pathology, November 2013. Berlin, Germany. Hematology and Neoplasia: Case Studies w/John Harvey, Introduction to Laboratory Profiling, Profiling the Liver Part 1: The Primary and Secondary Liver Tests, Profiling the Liver Part 2: Case Studies, Profiling the Urinary System
291. Western Veterinary Conference. February 2014. Las Vegas, NV. A Case-Oriented Approach to Interpretation of the Leukogram I & II; A Case-Oriented Approach to Interpretation of the Erythron I & II.
292. Florida Veterinary Medical Association Conference. April 2014. Orlando, FL. Part 1 & 2: Case Oriented Approach to Biochemical Profiling of the Urinary System; Part 1 & 2: Case Oriented Approach to Biochemical Profiling of the Liver; Part 1 & 2: Cytological Collection Techniques and General Approach to Interpretation; Cytology of Lymph Nodes; Cytology of the Liver; Part 1 & 2: Case Oriented Approach to Blood Film Evaluation.
293. Southern Veterinary Conference. August 2014. Birmingham, AL. A Case Oriented Approach to Leukogram Interpretation Part 1 & 2; A Case Oriented Approach to Erythrogram Interpretation Part 1 & 2; A Case Oriented Approach to Chemistry Profiling: Intro and Urinary Part 1 and 2; A Case Oriented Approach to Profiling the Liver.

294. North Carolina Academy of Small Animal Medicine. October 2014. Asheville, NC. Case Oriented Approach to Hemogram Interpretation: White Cells I & II; Case Oriented Approach to Hemogram Interpretation: Red Cells/Platelets I & II; Introduction to Biochemical Profiling; Case Oriented Approach to Biochemical Profiling of the Urinary System I & II; Case Oriented Approach to Biochemical Profiling of the Liver I & II.
295. Atlantic Coast Veterinary Conference. October 2014. Atlantic City, NJ. White Cell Responses in Disease I & II; Red Cell Responses in Disease I & II; Introduction to Laboratory Profiling; A Case Oriented Approach to Profiling the Liver; A Case Oriented Approach to Profiling the Urinary Tract I & II; Cytology of Lymph Nodes.
296. Missouri Veterinary Medical Association Conference. January 2015. St. Louis, MO. Introduction to Laboratory Profiling; A Case Oriented Approach to Biochemical Profiling of the Liver I & II.

Consultantships

Georgetown Animal Clinic. Indianapolis, Indiana. 1975 - 1985.
 Raltech Laboratories. Madison, Wisconsin. 1979 - 1981.
 Elars Bioresearch Laboratory. Fort Collins, Colorado. 1979 - 1981.
 Abbott Laboratories. Chicago, Illinois. 1979 - 1981.
 International Research & Development Corporation. Mattawan, Michigan. 1979 - 1980.
 Thornton-Haymond Medical Laboratories. Indianapolis, Indiana. 1979 - 1983.
 Westpath Laboratories. Fort Collins, Colorado. 1979 - 1981. Advanced
 Veterinary Laboratory. Chicago, Illinois. 1982 - 1985. Veterinary
 Clinical Laboratory. Fort Lauderdale, Florida. 1982 - 1985. Ortho
 Pharmaceuticals. Toronto, Canada. 1983 - 1984.
 Lovelace Inhalation Toxicology Research Institute. Albuquerque, New Mexico. 1983 - 1996.
 Illinois Institute of Technology (IIT). Chicago, Illinois. 1984 - 1986.
 Merrell-Dow Pharmaceuticals. Indianapolis, Indiana. 1984.
 Carter Wallace Pharmaceuticals. Cranbury, New Jersey. 1984 - and intermittently thereafter.
 Smith, Kline and French. King of Prussia, Pennsylvania. 1984.
 Consultants in Veterinary Pathology. Lafayette, Indiana. 1984 - 1996.
 Scientific Applications. LaJolla, California. 1985.
 Toxicity Research Laboratories. Muskegon, Michigan. 1985 - 1986.
 Searle Pharmaceutical Laboratories. Chicago, Illinois. 1985 - and intermittently thereafter.
 Mobil Oil Company. Princeton, New Jersey. 1985 - 1986.
 American Critical Care (subsidiary of DuPont). Chicago, Illinois. 1986 - 1987.
 Sandoz Laboratories. East Hanover, New Jersey. 1986 - and intermittently thereafter.
 Pfizer Chemical. Connecticut. 1986 - and intermittently thereafter.
 Mystic Marine Study Center. Connecticut. 1986.
 Oak Ridge National Laboratories. Oak Ridge, Tennessee. 1986.
 Stanford Institute for Transplant Immunology. California. 1986 - 1987.
 New Mexico State University. New Mexico. 1987.
 Merck Pharmaceuticals. West Point, Pennsylvania. 1987.
 Hoffman - La Roche Pharmaceuticals. Nutley, New Jersey. 1987 - and intermittently thereafter.
 CIBA - Geigy. Greensboro, North Carolina. 1987 - and intermittently thereafter.
 Monterey Bay Aquarium. Monterey, California. 1987 - and intermittently thereafter.
 Burroughs Wellcome Company. Research Triangle Park, North Carolina. 1988 - and intermittently
 thereafter.
 Hafslund Nycomed Pharma Ag. Linz, Austria. 1988 - and intermittently thereafter.
 IDEXX Corporation. Portland, Maine. 1988 - present.
 North Eastern Ohio University, College of Medicine. Rootstown, Ohio. 1988 - 1991.

Norden Laboratories. Lincoln, Nebraska. 1989.
Bristol-Meyers. Syracuse, New York. 1989.
The Jackson Laboratory. Bar Harbor, Maine. 1991.
McNeil Consumer Products. Fort Washington, Pennsylvania. 1991.
Springborn Laboratories. Spencerville, Ohio. 1991.
Alaska Fish and Game. Anchorage, Alaska. 1992 - 1996.
Applied Marine Sciences. Livermore, California. 1992 - 1996.
Arco Oil Company. Los Angeles, California. 1992.
Department of Justice. Exxon Valdez Oil Spill. 1992.
Entrix. Walnut Creek, California. 1992.
Fish and Wildlife Service, Department of Interior. Exxon Valdez Oil Spill. 1992 - 1996.
Procter & Gamble. Cincinnati, Ohio. 1992 - and intermittently thereafter.
Synergen. Boulder, Colorado. 1992.
Utah Biomedical Test Laboratory. Salt Lake City, Utah. 1992.
Boehringer Ingelheim Pharmaceuticals, Inc. Ridgefield, Connecticut. 1999 - and intermittently thereafter.
Elan Pharmaceuticals. San Francisco, California. 1999 - and intermittently thereafter.
Eli Lilly & Co. Indianapolis, IN. 2003 - 2004.
Fort Dodge Animal Health. Overland Park, KS. 2004 - 2005.
Cargill Corporation. Minneapolis, MN. 2013
Hoffman-La Roche. Basel Switzerland. 2013

Teaching Experience

VMI 110-13 (now VMI 131): Clinical Pathology for Veterinary Technicians. 1976 - 1982.
VMI 404: Seminar and Clinic Rounds (Sophomores). 1974 - 1986.
VMI 455(L): Hematology and Cytology (Sophomores). 1979 - 1988.
VMI 461: Clinical Pathology (Sophomores). (Replaced VMI 463-8) 1980 - 1984.
VMI 463-468: Phase IIB Systemic Pathobiology. 1973 - 1983.
VMI 485: Clinical Pathology, Microbiology, & Necropsy (Senior Rounds). 1975 - 1986.
SAC 485: Clinics. Summer 1987.
VMI 489: Clinical Pathology Clerkship. 1983 - 1986.
SAC 495: Clinics. Summer and Fall 1987.
SAC 496: Clinics. Fall 1987.
VMI 600: Special Problems in Pathology/Independent Study. 1984 - 1988.
SAC 607: Independent Study. Fall 1987.
VMI 611: Advanced Hematology. 1980, 1984.
VMI 613: Advanced Clinical Chemistry. 1982 - 1983.
VMI 614: Advanced General Pathology. Fall 1979, 1982.
VMI 680: Graduate Special Topics (Histopathologic Descriptions). 1979 - 1987.
VMI 681: Special Problems in Bacteriology, Immunology, Mycology, & Virology (Cytology). Spring 1982.
VMI 694: Seminar in Clinical Pathology. Spring and Fall 1986.
VMI 697: Graduate Research Seminar. Spring and Fall 1986.
VPB 555: Veterinary Hematology (Sophomores). Spring 1999, Spring 2000, Spring 2003, Spring 2004, Spring 2005, Fall 2005, Fall 2006.
CPB 555: Veterinary Hematology (Sophomores). Fall 2007.
CPB 855: Veterinary Hematology (Sophomores). Fall 2008, Fall 2009, Fall 2010, Fall 2011, Fall 2012, Fall 2013, Fall 2014.
VM 525: Grand Rounds. Fall 2002, Spring 2003.
VM 540: Applications & Integrations III (Sophomores). Fall 2005.

Involvement with Graduate Research Programs

Major Professor

Dennis B. DeNicola: Ph.D. 1981

Thesis Title: Evaluation of Bronchopulmonary Lavage Profiling as a Screening Method for Pulmonary Damage Induced by Nitrogen Dioxide (NO₂), Fly Ash, and NO₂-Fly Ash Combinations.

Glenn S. Elliott: Ph.D. 1989

Thesis Title: Evaluation of Neutrophil Function Assays in Pigs.

Ronald Herbert: Ph.D. 1990

Thesis Title: Investigation of the Morphologic Pathogenesis of Radiation-induced Pulmonary Carcinomas (supported by NIH postdoctoral fellowship award).

Bryan Stegelmeier: Ph.D. 1992

Thesis Title: A Study of the Molecular Alterations of the Progression of 239 Plutonium- induced Rat Lung Carcinogenesis (supported by NIH postdoctoral fellowship award).

John Christian: Ph.D. 1992

Thesis Title: In Vivo Aging of Canine Biotinylated Erythrocytes: Validation and Preliminary Findings as a Model System for the Study of Erythrocyte Senescence (supported by NIH postdoctoral fellowship award).

Dan Rudmann: Ph.D. August 1997 (Co-Major Professor)

Thesis Title: The Role of Tumor Necrosis Factor and Interferon Gamma in Inflammatory and Infectious Disease.

Susan Jones: Ph.D. December 1997

Thesis Title: Kras Gene Polymorphisms: Role in Tumor Susceptibility.

Ken Schafer: Ph.D. May 1998

Thesis Title: The Role of Cyclin B1, Cdc2, Wee1, and Cdc25 in G₂ Cell Cycle Arrest following Ionizing Radiation.

Richard Westhouse: Ph.D. August 1999

Thesis Title: In Vitro Effects of Particles.

Cindy E. Fishman: Ph.D. August 2001 (Co-Major Professor)

Thesis Title: Quantitative Image Analysis of Cerebral β -Amyloidosis in the APPV717F Transgenic Mouse Model of Alzheimer's Disease

Member of Ph.D. Committees

Wayne McIlwraith (Veterinary Medicine), 1979

James R. Richardson (Veterinary Medicine), 1982

Donald R. Miller (Chemical Engineering), 1983

Charles E. Hastings (Pharmacy), 1984

G.W.R. Davidson (Chemical Engineering), 1984 Susan

White (Pharmacy), 1986

Marlyn S. Whitney (Veterinary Medicine), 1986

Evan B. Janovitz (Veterinary Medicine), 1986

Jeffery A. Engelhardt (Veterinary Medicine), 1987

David Honor (Veterinary Medicine), 1987

Antonios Mikos (Chemical Engineering), 1988

Tony Skowronek (Veterinary Medicine), 1995

Lydia L. Andrews-Jones (Veterinary Medicine), 2001

Florenta Segal (Chemistry), 2011

Member of M.S. Committees

Stephen B. Adams (Veterinary Medicine), 1980

James F. Norton (Veterinary Medicine), 1984
Marilyn S. Whitney (Veterinary Medicine), 1984
Glenn S. Elliott (Veterinary Medicine), 1985
Linda Holste (Veterinary Medicine), 1986
Ann Hubbs (Veterinary Medicine), 1986
Ned Kuehn (Veterinary Medicine), 1987

Research Grant Proposals

Evaluation of Cerebrospinal Fluid Protein Electrophoresis as an Aid in the Diagnosis of Central Nervous Disorders in Horses and Cattle. A.H. Rebar and G.D. Boon (co-principal investigators). USDA /SEA Formula Fund Grant. \$10,000 for 1 year. 1980.

Evaluation of Serum Lipase in Naturally Occurring and Induced Canine Pancreatitis. Dow Chemical Company. A.H. Rebar, G.D. Boon, and R.B. Ford, (co-principal investigators). \$5,000 for 1 year. 1981.

An Investigation into the Potential Changes in CSF Associated with Repeated Sample Collection and Myelogram Procedures with Metrizamide. D.B. DeNicola, H.D. Cantwell, and A.H. Rebar (co-investigator). Canine Disease Research Funds. \$2,900 for 1 year. 1983.

Cerebrospinal Fluid Analysis in Horses with Cervical Spondylopathy. D.B. DeNicola, A.H. Rebar, G.D. Boon, and S.E. Adams. USDA/SEA Formula Fund Grant. \$4,000. 1984 - 1987.

Endotoxemia in Horses and Calves: Pathophysiologic Effects on Neutrophils. A.H. Rebar, D.B. DeNicola, G.D. Bottoms, and J.F. Fessler. USDA/SEA Formula Fund Grant. \$10,000. 1984 - 1987.

Specific and Non-Specific Immune Function in Dogs with Lymphosarcoma. A.H. Rebar (principal investigator). Canine Disease Research Funds. \$ 6,290 for 1 year. 1985.

Evaluation of Neutrophil Function in Dogs with Well Regulated, Poorly Regulated, and Uncontrolled Diabetes Mellitus. A.H. Rebar (principal investigator). Canine Disease Research Funds. \$4,604 for 1 year. 1985.

Vit E-Sel and Salmonella interactions - affects on neutrophil function. J.F. Van Vleet, D.B. DeNicola, C.H. Lamar, A.H. Rebar, and W.M. Reed. USDA/SEA Formula Fund Grant. \$11,000. 1984-1987.

Establishment of a Veterinary Cytology Resource Center. A.H. Rebar. American Veterinary Medical Foundation. \$13,000. 1986.

Establishment of a Veterinary Cytology Resource Center. A.H. Rebar. American Animal Hospital Association. \$3,000. 1986.

Ralston Purina Graduate Fellowship in Animal Welfare. A.H. Rebar, A.M. Beck, L.T. Glickman. \$125,000 (over 4 years). 1991-1994.

Genentech Co., Graduate Fellowship in Molecular Pathology. A.H. Rebar. \$125,000 (over 5 years). 1992-1997.

USDA Plum Island Cooperative Graduate Student Agreement. A. H. Rebar. Approximately \$180,000 (over 5 years). 1989-1995.

Searle Company Graduate Fellowship in Toxicologic Pathology. A. H. Rebar. \$60,000 (over 4 years). 1994-1998.

Biotechnical Approaches to Avian Health Training Grant. USDA. A.H. Rebar, P. Guo. \$54,000. 1997-1999.

Ewing Marion Kauffman Foundation Planning Grant. The Ewing Marion Kauffman Foundation. A.H. Rebar, \$50,000. 7/27/06-12/15/06.

Kauffman Collegiate Entrepreneurial Initiative. The Ewing Marion Kauffman Foundation. A.H. Rebar, \$1,500,000. 2007-2013 (PI switched to R. Cosier 1/1/11)

Indiana Clinical and Translational Sciences Institute. NCRR. A. Shekhar, Principal Investigator; A.H. Rebar, Co-Investigator. \$21,168,775. 5/1/08-4/30/13.

Discovery Park Sustainability. Indiana Economic Development Corporation. A.H. Rebar,

\$2,000,000. 1/9/09-11/15/11.

Center for Student Innovation and Entrepreneurship. American Councils for International Education. A.H. Rebar, \$64,750. 3/1/11-12/31/11.

The Yegor Gaidar Annual Leadership Program. U.S. Russia Foundation. A.H. Rebar, \$94,836.

10/1/11-9/30/12. Kazan National Research Technological University. The New Eurasia Foundation. A.H. Rebar,

\$10,000. 9/8/11-12/31/11.

Indiana Clinical and Translational Sciences Institute. NCRR. A. Shekhar, Principal Investigator; A.H. Rebar, Co-Investigator. \$396,979. 06/06/13-10/31/13.

The Yegor Gaidar Annual Leadership Program. U.S. Russia Foundation. A.H. Rebar.

\$151,405. 02/01/13-08/31/13.

Committees

University

University Senate.

Member. 1985 – 1989.

Member, Senate Advisory Committee. 1987 – 1989.

Chair, Faculty Affairs Committee. 1987 – 1989.

University Program in Toxicology Steering Committee.

Member. 1986 – 1987.

University Academic Representatives Council.

Member. 1987 – 1995.

University Prestigious Fellowships Committee.

Member. 1988 – 1990.

University Graduate Council.

Member. 1988 – 1991.

Search Committee to select Executive Vice President for Academic Affairs. 1990 – 1991

University Committee on Good Laboratory Practices. 1995.

University Task Force on Future Directions. 1993.

University Task Force, Excellence 21 Initiative.

Member. 1995.

North Central Accreditation Study Committee

Co-Chair Criterion Four. 1998-1999

Human Capital Research Planning Committee. 1999-2000

New Facilities Committee. 2002

Life Sciences Mall Committee. 2002-2003

Search Committee to select Vice President for Research. 2004-2005

Search Committee to select Director of Regenstrief Center. 2004-2005

Search Committee to select Cancer Center Director. 2004-2005 and 2006-2007

Search Committee to select Avrum and Joyce Gray Director, Burton D. Morgan Center for Entrepreneurship. 2006-2007

Campus Master Planning Committee. 2007

Global Council. 2011-2012

Faculty Leadership Committee, Global Policy Research Institute, 2010-2012

CTSI Executive Committee, 2012 - present

Entrepreneurship Leadership Council, 2012 – present

Engaging with India Taskforce - 2013

Research and Teaching Lab Renovation (DL2) Committee, 2013 - present

GPRI Director Search Committee – 2013

Academic Program Assessment Validation Committee – 2013

Purdue Economic Development Roundtable - 2013

School

- SVM Teaching Hospital Development Committee.
Member. 1978 – 1980.
- SVM Faculty Grievance Committee.
Member. 1980 – 1982.
- SVM Admissions Committee.
Member. 1982 – 1985.
- SVM Grade Appeals.
Member. 1982 – 1985.
- SVM Clinical Pathology Board.
Member. 1982 – 1984.
- SVM Academic Advisor, Seniors. 1984 – 1987.
- SVM Strategic Plan Overview Committee (Task Force B).
Chair. 1986 – 1987.
- SVM New Building Committee.
Chair. 1986 – 1995.
- SVM Canine Disease Research Board.
Chair. 1987 – 1990.
- SVM Continuing Education Advisory Board.
Chair. 1987 – 1995.
- SVM Research Programs Development Advisory Board.
Chair. 1987 – 1996.
- SVM Faculty Committee.
Member. 1986 – 1988.
- SVM Academic Leaders Group.
Member. 1987 – 2005.
- SVM Executive Committee (EXCOM).
Member. 1987 – 1995; Chair 1996 – 2005.
- SVM Animal Care and Use Committee
Ex-officio Member. 1987 – 1996.
- SVM Internal Development Advisory Committee.
Member. 1988 – 2005.
- SVM Graduate School Committee.
Chair. 1988 – 1991.

Departmental

- Department of Veterinary Pathobiology Primary Promotions Committee.
Member. 1983 – 1996; 2006 to present
- Department of VMI, Pathology Strategic Plan Committee.
Editor. 1986.

A.H. Rebar



3612 Farnsworth Drive West Lafayette, IN 47906 Phone: (765)
714-1431 E-Mail: mclaughl@purdue.edu

February 16, 2015

Ms. Terryl Holzinger
Witt/Kiefer
Via E-mail: tholzinger@wittkiewer.com

Dear Ms. Holzinger,

Thank you for bringing the position of Vice Chancellor for Research, Innovation and Economic Development at North Carolina State University to my attention. While I am quite happy with the challenges offered by my present position at Purdue, the prospect of overseeing the research portfolio of North Carolina State University is too intriguing to ignore.

I believe that I am well prepared to assume the responsibilities of Vice Chancellor for Research at North Carolina State University. I began my research career as a senior scientist on the staff of the Lovelace Inhalation Toxicology Research Institute in Albuquerque at a time when Lovelace was still part of the national laboratory system. I have spent my entire academic career in various faculty and administrative posts at a major research university. For the past ten years I have served Purdue University as Senior Associate Vice President for Research and Executive Director of Discovery Park, Purdue's ten-center hub for interdisciplinary and translational research. In addition at various times I have also directed two of Discovery Park's core centers, the Burton D. Morgan Center for Entrepreneurship, and the Global Sustainability Institute.

In these Discovery Park and Vice President for Research Office roles I have worked closely with Purdue's President, Provost, Vice President for Research, Vice Provost for Engagement, and the Senior Vice President and Treasurer of the Purdue Research Foundation to help develop and drive the University's research and technology commercialization agenda. The Discovery Park external Advisory Council boasts leaders of industry, academia, and national laboratories among its members. Under my leadership, Discovery Park has grown from a \$200 million to a \$1 billion research enterprise. New sponsored research has increased steadily. In 2005-2006, Discovery Park generated \$44 million in new sponsored research; in 2013-2014, new research funding totaled \$80+ million. A major point of emphasis has been technology commercialization and economic development. Since its inception, Discovery Park has helped to facilitate the launch of nearly 70 new businesses, has interacted with more than 100 corporate partners, and has partnered with several national laboratories on major research initiatives.

I have had considerable experience setting strategic agendas for and leading complex academic organizations. Discovery Park has approximately 160 permanent staff and approximately 1000 affiliated faculty. Nearly 300 graduate students are housed and do thesis research in Discovery Park. Over 4000 undergraduate students have participated in its programs. In my prior position as Dean of the School of Veterinary Medicine, I oversaw three academic departments, the veterinary teaching hospital and, jointly with the Dean of Agriculture, the State's Animal Disease Diagnostic Laboratory. The School of Veterinary Medicine has a total staff of approximately 300 and student body of approximately 600 in several academic programs. During my nine-year tenure as Dean,

faculty size grew from approximately 75 to approximately 100 tenure-track faculty lines and the overall operating budget grew from approximately \$16 million/year to nearly \$30 million/year.

I have enjoyed considerable success in working to upgrade existing facilities and in bringing new facilities to campus. I have learned that such success is dependent upon being able to build partnerships both within the university and externally. As Associate Dean for Research and Head of the Department of Veterinary Pathobiology in the School of Veterinary Medicine, I served as the School's point person in bringing a \$30 million building addition to the School. This involved working closely with the university's Vice President for Governmental Relations to build university, private sector, agricultural commodity, and legislative support for this agenda. As Dean, I was successful in achieving significant upgrades in research animal housing facilities, experimental surgery facilities, clinical facilities, and teaching laboratories. A number of these were accomplished through solicitation of private donations. Since becoming Senior Associate Vice President for Research and Executive Director of Discovery Park, I have overseen the construction of three Discovery Park facilities (Mann Hall, the Hall for Discovery and Learning Research, and the Drug Discovery Building) and the successful grant application to build a fourth (the multi-disciplinary cancer research facility funded through NIH). The Discovery Park facilities I now oversee occupy more than 300,000 sq. ft. of prime campus research space.

One of the challenges I faced as Dean of Veterinary Medicine was the lack of diversity throughout the veterinary profession and particularly in academic and leadership roles. In an effort to increase the number of women and underrepresented minorities on the veterinary faculty at Purdue, I originated a policy that allowed us to hire faculty into partial, flexible appointments. As a result, we were extremely successful in recruiting and retaining excellent individuals who wished to pursue additional postgraduate educational opportunities or who wanted/needed additional time to raise young families. I was also the first Purdue veterinary dean to appoint women and African Americans to leadership positions (e.g., Assistant Dean for Academic Affairs, Director of the Veterinary Teaching Hospital, Associate Dean for Research). I am fully committed to the belief that diversity is an integral part of the fabric of every great college and university.

Throughout my career, I have remained active as a faculty member and research scientist, and consultant to government and industry. Even today, I continue to teach in the professional veterinary curriculum and to mentor residents and graduate students in my discipline of clinical pathology and related disciplines. I believe that my continuous experience as an experimental comparative pathologist and faculty member will serve me well as the Vice Chancellor for Research. As a pathologist I have spent much of my career working at the interface of a variety of disciplines. In my various work and consultative roles, I have had the opportunity to work directly with engineers, physicians, lawyers, radiation biologists, chemists, molecular biologists, computer scientists, pharmacologists, epidemiologists, statisticians, social scientists, and humanists. My experience in Discovery Park has broadened and deepened this interdisciplinary experience even further as faculty from every college on campus are involved in Discovery Park programs. I believe that this varied background has helped prepare me for a role as complex as that which your job description outlines.

Ms. Terryl Holzinger
February 10, 2015
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In summary, I believe that the combination of my experience, leadership skills and accomplishments make me a good fit for the position of Vice Chancellor for Research, Innovation, and Economic Development at North Carolina State University. I look forward to hearing from you further as the search process unfolds.

As requested, a CV, list of references, and history of funded research are enclosed. I request that my application be kept confidential as long as feasible.

Sincerely,

A handwritten signature in cursive script that reads "A.H. Rebar". The signature is written in black ink and is positioned above the typed name and title.

A.H. Rebar, DVM, PhD, Diplomate ACVP Senior
Associate Vice President for Research Executive
Director, Discovery Park
Professor of Clinical Pathology