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BORN:

15 February 1936

Oxford, England

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MARITAL STATUS:

Married (Deborah Bishop Fairchild)

1 child (Eleanor Felicity)

NATIONALITIES:

PROFESSIONAL APPOINTMENTS:

- 1962-63 VETERINARY OFFICER I, Department of Agriculture, Canada (Federal Meat Inspector, Calgary, Alberta).
- 1964-65 POSTGRADUATE FELLOW, Department of Parasitology, Tulane Medical School (research on human strongyloidiasis).
- 1965-77 RESEARCH OFFICER, Central Veterinary Laboratory, Ministry of Agriculture, Fisheries and Food, New Haw, Surrey. Ultimate grade, Senior Research Officer (Merit) (various epidemiological studies and the setting up and management of the Veterinary Investigation Diagnosis Analysis scheme).
- 1973-75

- 1970-1983 World Meteorological Organisation Committee for Agricultural Meteorology, Chairman, Joint WMO/FAO Working Group Weather and Animal Production & Health.
- 1983-1984 National Academy of Sciences Subcommittee on Research & Diagnosis of Foreign Animal Diseases, Member.
- 1986-1987 Attached to Department of Arboviral Entomology, Disease Assessment Division, U.S. Army Medical Research Institute of Infectious Diseases, Fort Detrick, Frederick, MD 21705-0111, for 12 month sabbatical leave through Intergovernmental Personnel Act of 1970 to study the remote identification of potential *Amblyomma variegatum* habitat.
- 1991-1995 Chairman, World Health Organisation/Veterinary Public Health Working Group Anthrax: Epidemiology and information.
- 1991-2007 Director, World Health Organization Collaborating Center for Reference and Training in Remote Sensing and Geographic Information Systems for Veterinary Public Health; 1996, renamed Collaborating Center for Remote Sensing and Geographic Information Systems for Public Health. Renewed for four years, January, 2003. 2003-2007 Deputy Director, WHOCC. WHOCC allowed to lapse in 2007.
- 1995-2004 Coordinator, World Health Organization Working Group on Anthrax Research and Control.
- 1995- Moderator responsible for ProMED AHEAD of ProMED-mail, a global electronic communication network for awareness of human, animal, and plant infectious disease outbreaks; AHEAD covers all zoonotic and veterinary diseases. Presently ProMED-mail has over 68,000 members worldwide. From 1.1.99 am now Assistant Moderator supporting Tam Garland, Arnon Shimshony, Cristina RamirezDavid, and Pablo Beldomenico, who collectively have succeeded myself as AHEAD moderators, while I moderate anthrax and back up the others when they are offline..
- 1998- Proposal reviewer, USDA National R (a)6 (l R 6ou6a)6 (l ou6a)a3 (om)-5k up (ey)0 (wh)-

TEACHING EXPERIENCE:

DEMONSTRATOR, Medical Entomology, Tulane, 1964.

LECTURER, Principles of Veterinary Epidemiology, Royal Veterinary College, London, 1971.

BULL FELLOW, Ontario Veterinary College, 4 May-14 June 1973.

LECTURER, Veterinary Administration course, Pan American Zoonosis Diseases Center, Buenos Aires, Republica Argentina, September 1976 (courses on Benefit Analysis and Mathematical Modelling).

VISITING LECTURER, presented course on "Moderna Vigilancia Epidemiologica" Escola de Veterinaria, Department of Medicina Veterinaria Preventiva, Univ. Federal de Minas Gerais, Belo Horizonte, Brazil, funded by the American Society of Microbiology and the Minas Gerais Ministry of Agriculture. 16-27 November 1992.

PROFESSOR, Department of Epidemiology and Community Health [now Department of Pathobiological Sciences], School of Veterinary Medicine, Louisiana State University, Baton Rouge, Louisiana, USA, January 1978-2004; courses in Biometrics [5122 (2 credits)], Epidemiology [5215 (2), 7301 (4) & 7302 (4)], Project Management [7107 (2)], and Veterinary Economics [7308 (2)]. Those courses with catalog numbers in italics were initiated and developed by myself.

MENTOR, DVM/MPH Concurrent Degree Studies, LSU School of Veterinary Medicine and LSUHSC School of Public Health, 2009-

Animal Husbandry and Disease Control in Ecuador. Part III a of the Report of the Cambridge TransAmerican Expedition. 1964. *ibid*2:237-250.

- 5 Hugh-Jones, M.E. and A.J. Bacon. 1964.
The "Augenidos" of South America. Part III b of the Report of the Cambridge TransAmerican Expedition. 1964. *ibid*2:251-255.
- 6 Hugh-Jones, M.E. and A.J. Bacon. 1964.
Animal Husbandry and Disease Control in Colombia. Part IV a of the Report of the Cambridge TransAmerican Expedition. 1964. *ibid*2:337-345.
- 7 Hugh-Jones, M.E. and A.J. Bacon. 1964.
Criollo Cattle Development in Colombia. Part IV b of the Report of the Cambridge TransAmerican Expedition. 1964. *ibid*2:347-352.
- 8 Hugh-Jones, M.E.; Austwick, P.K.C. 1967.
Epidemiological Studies in Bovine Mycotic Abortion I. The effect of climate on incidence. *Vet. Rec.*, Sept. 16, pp. 273-
- 9 Hugh-Jones, M.E.; Ivory, D.W.; Loosmore, R.M.; Gibbins, J. 1969.
Veterinary Investigation Diagnosis Analysis. A system of information recording and retrieval for Veterinary Investigation Laboratories in the Ministry of Agriculture, Fisheries & Food. *Vet. Rec.*, 84: 304-
- 10 Hobbs, B.C.; Hugh-Jones, M.E. 1969.
Epidemiological Studies of *Salmonella seftenberg* I. Relations between animal foodstuff, animal and human isolations. *J. Hyg., Camb.* 67: 81-
- 11 Hugh-Jones, M.E. 1969.
Epidemiological Studies of *Salmonella seftenberg* II. Infections in farm animals. *J. Hyg., Camb.* 67: 894.
- 12 Smith, L.P.; Hugh-Jones, M.E. 1969.
The Weather Factor in Foot-and-Mouth Disease Epidemics. *Nature*, 223: 712-
- 13 Hugh-Jones, M.E.; Wright, P.B. 1970.
Studies on the 1967/68 Foot-and-Mouth Disease Epidemic. The relation of weather to the spread of disease. *J. Hyg., Camb.* 68: 253-
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- 14 Hugh-Jones, M.E. 1970.
Epidemiologic Studies on the 1967/68 Foot-and-Mouth Disease Epidemic. The possible spread of infection by farm rats (*Rattus norvegicus*). *Br. Vet. J.* 126: 368-71.
- 15 Hugh-Jones, M.E. 1970.

Salmonellosis and VIDA. Vet. Rec., 87:275-6.

- 16 Hugh-Jones, M.E. 1971.
Bovine Abortion and VIDA. Vet. Rec., 89:201-
- 17 Hugh-Jones, M.E. 1972.
Epidemiological Studies on the 1967/68 Foot+Mouth Disease Epidemic.
Attack rates and cattle density. Res. Vet. Sci., 13: 411-17.
- 18 Hugh-Jones, M.E. 1972.
The Epidemiology of Airborne Animal Diseases. IV International Symposium on

- 27 Hugh-Jones M.E., Parkin R.S. & Whitney J.C. 1975
The cost of premature death in young rabbits. *Veterinary Record* 96(16):585-586
- 28 Hugh-Jones, M.E. 1976.
Simulation Spatial Model of the Spread of Foot-and-Mouth Disease Through the Primary Movement of Milk. *J. Hyg., Camb.* 77:91
- 29 Hugh-Jones, M.E. & R.R. Tinline 1976.
Studies on the 1967-68 Foot-and-Mouth Disease Epidemic: Incubation Period and Herd Serial Interval. *J. Hyg., Camb.* 77: 143-153.
- 30 Hugh-Jones, M.E. 1976.
Studies on the 1967-68 Foot-and-Mouth Disease Epidemic. The Reporting of Suspected Disease. *J. Hyg., Camb.* 77: 399-406
- 31 Hugh-Jones, M.E. 1976.
Effects of Heat and Cold on Diseases in Sheep. In "Progress in Biometeorology", Ed. H.D. Johnson, Swiss Zeitlinger BV, Amsterdam, pp. 480-486.
- 32 Ellis, P.R. and Hugh-Jones, M.E. 1976
Disease as a limiting factor. In "Beef Cattle Production in developing countries", Ed. A.J. Smith, pp. 105-116, Centre for Trop. Vet. Med., University of Edinburgh.
- 33 Whitney J.C., Blackmore D.K., Townsend G.H. , Parkin R.J., Hughes M.E., Crossman P.J., Graham Marr T., Rowland A.C., Festing M.F., & Krzysiak D. 1976
Rabbit mortality survey. *Laboratory Animal* 10(3): 203-207
- 34 Ellis, P.R.; Hugh-Jones, M.E. 1977.
Economics of Infections during Pregnancy in Farm Livestock, in "Infections and Pregnancy", Ed. C.R. Coid, Academic Press, pp. 85-95
- 35 Moorhouse, P.D.; Hugh-Jones, M.E. 1981.
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Production of Hemolysis and Protease by *Aeromonas hydrophila* in a Chemically Defined Medium. *Int. Symp. on Fish Biologics: Serodiagnosis & Vaccines*, Leetown, W. Va., USA, 1981. *Devel. Biol. Standard* 49: 325-335
- 37 Hugh-Jones, M.E. 1981.
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- 39 Moorhouse, P.D.; Hugh-Jones, M.E.; Barta, O; Swann, A.I. 1982.
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- 40 Hugh-Jones, M.E.; Kearney, M. 1983.
Student Stress: Identification of Causes and Groups in the Four Years at Veterinary School. *J. Vet. Med. Educ.* 10:6-8.
- 41 Hugh-Jones, M.E.; Kearney, M.; Olascoaga, R. Casas; Nesti, A. 1983.
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- 43 Hugh-Jones, M.E. 1984.
A Systems Approach to the Economic Assessment of Disease Control and Eradication and a Discussion of Some Control Costs and Benefits. *Prev. Vet. Med.* 2:493-503.
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The effects of reactor retention on the spread of brucellosis in strain 19 adult vaccinated herds. *Prev. Vet. Med.* 2:505-514.
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Seroepidemiology of *Anaplasma marginale* in white-tailed deer (*Odocoileus virginianus*) for Louisiana. *Journal of Wildlife Diseases* 15(3):342-246.
- 72 Morley, R.S., and M.E. Hugh Jones. 1989.
Effect of management and ecological factors on the epidemiology of anaplasmosis in the Red River plains and southeast areas of Louisiana. *Veterinary Research Communications*. 12:359-369.
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- 82 Hugh-Jones, M.E. 1991
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- 101 Keim, P., A. M. Klevytska, L. B. Price, J. M. Schupp, G. Zinser, K. L. Smith, M. Hughes, R. Okinaka, K. K. Hill, and P. J. Jackson. 1999.
Molecular diversity in *Bacillus anthracis* *Journal of Applied Microbiology* 87(2):215-217.
- 102 Keim P., L.B. Price, A.M. Klevytska, K.L. Smith, J.M. Schupp, R. Okinaka, P.J. Jackson, & M.E. Hugh-Jones. 2000.
Multiple-locus variable number tandem repeat analysis reveals genetic relationships within *Bacillus anthracis* *Journal of Bacteriology*, 2000, 182 (10): 2928-2936
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- 110 Nishi, J.S., D.C. Dragon, B.T. Elkin, J. Mitchell, T.R. Ellsworth & M.E. Hugh-Jones. 2002.
Emergency response planning for anthrax outbreaks in bison herds of northern Canada: a balance between policy and science. *Annals of the New York Academy of Sciences*, 969: 245-50
- 111 D.U. Pfeiffer & M. Hugh-Jones. 2002.
Geographical information systems as a tool in epidemiological assessment and wildlife disease management, *OIE Scientific & Technical Review* 21 (1): 91-102
- 112 M.E. Hugh-Jones & V. de Vos. 2002.
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Bacillus anthracis virulence in guinea pigs vaccinated with anthrax vaccine adsorbed is linked to plasmid quantities and clonality. *Journal of Clinical Microbiology*, 41 (3): 1212-1218

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<https://www.omicsonline.org/the-2001-attack-anthrax-key-observations-2157-2526.S3-001.php?aid=2008>

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[Ecological Niche Modeling of Bacillus anthracis on Three Continents: Evidence for Genetic Ecological Divergence?](#) PLoS ONE 8(8): e72451.
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C Other Publications

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The weather factors in fowl pest and foot and mouth disease epizootics, Ecological Systems Approaches to Aerobiology, I. Identification of Component Analysis and Their Functional Relationships, Kansas State University, Manhattan Kansas, 68 January, 1972; proceedings of Workshop/Conference I, pp69-75, US/IBP Aerobiology Program Handbook Number 2, The University of Michigan, Ann Arbor, Michigan, 1972

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Hugh-Jones, M.E. 1980

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Surveillance of Antibiotic Resistance. *Proc. Second Symposium on Computer
Applications in Veterinary Medicine, 22-25 May, 1984, Starkville, MS.* Pp. 351-
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 Agrocommunication: ProMEDmail, *Exceeding Expectations= Conference Proceedings*, Ontario Veterinary Medical Association, Toronto, January 24-26, 2002, pp 317-320
- Martin Hugh-Jones. 2002
 Foot and Mouth Disease, *Exceeding Expectations Conference Proceedings*, Ontario Veterinary Medical Association, Toronto, January 24-26, 2002, pp 321-332
- Blackburn, J.K., K.M. McNyset, M.E. Hugh-Jones, M.A. Mitchell, A. Curtis. 2007.
 Predicting the geographic distribution of *Bacillus anthracis*, the causative agent of anthrax, in Mexico using ecological niche modeling and ~~break~~ data from the United States of America. Paper. Proceedings of the V Congreso Internacional de Epidemiologia: pages 425-432. Villahermosa, Tabasco, Mexico, October 2007.
- Laura Basirico, Ralph Portier, Martin Hughes 2007
 "Veterinary Hospital & Cli

Giuliano Garofolo, Daria Di Sabatino, Antonio Fasano, Martin Hugh Jones 2015
Network for wildlife health surveillance in Europe, Diagnosis Card: Anthrax.
harmonised Approaches in monitoring wildlife Population, Health And Ecology
and Abundance (APHAEA), December, 2015
<http://www.aphaea.eu/cards/diagnosis/anthrax>

Martin Hugh-Jones, 2020
Letter writer: Country's past was rooted in slavery, The Advocate, July 6, 2020
https://www.theadvocate.com/baton_rouge/opinion/letters/article_b5bfeffe-bb17-11ea-828d-43ddd531d3c0.html

D. Book Reviews

Society for Veterinary Epidemiology and Preventive Medicine, Proceedings, 13-15 April, 1994, Belfast, M.V. Thrusfield (ed.), 1994, Preventive Veterinary Medicine 21 (1994) 263-265

Entomology & Death C A Procedural Guide, E. Paul Catts & Neal H. Haskell (eds.), Joyce Print Shop Inc., 1990, Preventive Veterinary Medicine 21 (1994) 273-277

Teaching Epidemiology: What You Should Know And What You Could Do, J. Olsen & D. Trichopoulos (eds.), Oxford University Press, Oxford, UK, 1992, Preventive Veterinary Medicine 22 (1995) 148-150

PRESENTATIONS:

1. Vth International Biometeorological Congress, Montreux, Switzerland, 31 August - 6 September, 1969

"The relationship of weather to the spread of foot and mouth disease",
Martin Hugh Jones

2. Ecological Systems Approaches to Arthropodology, I. Identification of Components Analysis and Their Functional Relationships, Kansas State University, Manhattan Kansas, 68 January, 1972

"The weather factors in fowl pest and foot and mouth disease epizootics",
Martin Hugh Jones

3. First Meeting of the PAHO Scientific Advisory Committee on Dengue, Yellow Fever & *Aedes aegypti*, Panama City, R. Panama, 26-March 1976.

"Cost-Benefit Studies in Relation to Vaccination and Immunization Programmes"
Martin Hugh Jones

4. Veterinary Preventive Medicine and Epidemiology Work Conference, National Veterinary Services Laboratories, Ames, Iowa, 27 June 1978.

"Mathematical Models of Animal Disease"
Martin Hugh Jones

5. International Symposia on Veterinary Epidemiology and Economics, ISVEE 1 New Techniques in Veterinary Epidemiology & Economics, Proceedings of a Symposium, University of Reading, England, July 1976

"An assessment of the eradication of bovine brucellosis in England & Wales"
ME Hugh Jones, PR Ellis, MR Felton

"The use of a computer model of brucellosis in a dairy herd"
ME Hugh Jones, PR Ellis, MR Felton

7. FAO Seminar on Veterinary Data Base Improvement and Economics of Disease Control, Rome, Italy, 4 September 1978.

"The Kenya Veterinary Service and Animal Disease Surveillance (i)-6 4 (v)-14 (n)-N (g)

"Introduction to Disease Modeling and Simulation"
Martin Hugh Jones (& Session Chairman)

9. Second International Symposium on Veterinary Epidemiology and Economics, Canberra, Australia, 7-11 May 1979.

"Some Effects of Foot and Mouth Disease on Cattle Production in Brazilian Beef and Dairy Herds" Martin Hugh Jones

10. FAO Seminar on Veterinary Epidemiology, Disease Surveillance and Economics of Disease Control, Denpasar, Bali, Indonesia, 21-27 September 1979 (Group Chairman).

"Real Needs in Measuring Disease Loss, Disease Control, and Training Government Veterinarians" Martin Hugh Jones

11. Veterinary Preventive Medicine & Epidemiology Work Conference, Ft. Worth Training Center, Fort Worth, Texas, 6-14 February 1980.

"What is Being Taught About the Economic Aspects of Veterinary Preventive Medicine" Martin Hugh Jones

12. Tuskegee Institute Conference on the Role of the U.S. Universities in International Rural & Agricultural Development, Tuskegee University, 18-26 April 1980.

"Trends in the Development of Veterinary Services in Developing Nations"
Martin Hugh Jones

13. AVMA Annual Conference, Washington, DC, 24 July 1980.

"Nosocomial Disease in the Surgical Unit of a Veterinary School"
Martin Hugh Jones

- 14.

"The Results from Testing Bovine Sera Stored 10EC to 30EC for
Twenty Years, with Lessons for Future Serum Banks"
P.D. Moorhouse & M. Hugh-Jones

"A Serological Survey of Brucellosis in El Salvador"
M. Reyes Koke, D.A. Rice & M. Hugh-Jones

18. International Conference. on the Impact of Diseases on Livestock Production in
the Tropics, Kissimee, Florida, 3 May 1983.

"A Suggested Database for the Economic Assessment of Disease Control
and Eradication" Martin Hugh-Jones

*Presentations at meetings of the Animal Disease Research Workers in the
Southern States: 1980 -1988*

19. 34th Annual Meeting, Oklahoma State University, Stillwater, Oklahoma, 13-
March 1980.

"*Vibrio cholerae* Contamination of *Rana catesbiana*" M. Hugh-Jones

"Detection and Characterization of Lymphocyte Antigens in the Horse"
J.J. McClure, G. Slimp, J.R. McClure, C.J. Issel & M. Hughes

21. 35th Annual Meeting, University of Georgia, Athens, Georgia, 25 March
1981.

"Epidemiologic Studies Using Twenty Year Old Frozen Bovine Sera"
M. Hugh-Jones & P.D. Moorhouse

"Relation of Soil Temperature and Moisture Content to Seasonal
Transmission of Fascioliasis in Central Louisiana"
M. Van Brackle, J.B. Malone, M. Hugh-Jones & A. Loyacano

23. 36th Annual Meeting, Louisiana State University, Baton Rouge, Louisiana, 6-
April 1982.

"Bovine Respiratory Disease Surveillance Program for Louisiana Beef
Herds" M. Hugh-Jones & R.W. Fulton

"A Survey for Trichinosis in Louisiana Pig Herds"
T.B. Stewart & M. Hugh-Jones

25. 37th Annual Meeting, Auburn University, Auburn, Alabama, ~~22~~ March 1983.
 "Preparation of Sera for a Serum Bank" M. Hugh-Jones
- 26 International Conference on Impact of Diseases on Livestock Production in the Tropics, Kissimmee, Florida, ~~13~~ May, 1983
 "Case study of estimation of prevalence of brucellosis in El Salvador"
 M.A. Reyes Knoke, D.A. Rice, & M.E. Hugh-Jones
 "A systems approach to the economic assessment of disease control and eradication and a discussion of some control costs and ~~ts~~hefi
 M.E. Hugh-Jones
 Effects of reactor retention on the spread of brucellosis in strain 19 adult vaccinated herds." F.N. Enright & M.E. Hugh-Jones
29. 38th Annual Meeting, University of Arkansas, Fayetteville, Arkansas, ~~2~~120 March, 1984.
 "Sero prevalence of bovine anaplasmosis in Louisiana"
 M.E. Hugh-Jones and D. Busch
 "Detection of IgM stain antibodies in armadillos to be phenolicglyeslipid - I antigen of *M. leprae*
 R.W. Truman, E.J. Shannon, M.E. Hugh-Jones, H.V. Hagstad, R.C. Hastings

--

- "Bluetongue infections in Louisiana Cattle."
M.E. Hugh-Jones, W.P. Taylor, F. Jones, G. Luthemüller, P. Karns,
and P. Hoyt
35. 42nd Annual Meeting, Louisiana State University, Baton Rouge, Louisiana, 27-29 March, 1988.
- "Seroconversion rates to BLV, BTV, *Leptospira hardjo*, and *Anaplasma* infections in a random series of Louisiana beef cattle." M.E. Hugh-Jones
- "Recognition of *Amblyomma variegatum* habitats in Guadeloupe using Landsat™ Imagery." M.E. Hugh-Jones
37. Second Symposium on Computer Applications in Veterinary Medicine, Starkville, Mississippi, 25 May 1984:
- A mathematical model of genetic drift in a virus population..
Hugh-Jones, M.E.
- Surveillance of Antibiotic Resistance.
Bell, J. & Hugh-Jones, M.E.
- Louisiana Veterinary Medical Diagnostic Laboratory Database System.
Erwin, M.; England, J.J.; Hugh-Jones, M.E.
40. 4th International Symposium on Veterinary Epidemiology and Economics, Singapore, 1-2 November, 1985.
- "The epidemiological uses of remote sensing and satellites."
M.E. Hugh-Jones and P. O'Neil
- "Utilization of a working serum bank." M.E. Hugh-Jones
42. XXIII World Veterinary Congress, Montreal, 1-5 August, 1987.
- "The epidemiological uses of remote sensing and satellites."
M.E. Hugh-Jones
43. Louisiana Academy of Sciences, Baton Rouge, Louisiana, 6-7 February, 1988.
- "Dummy Calf Syndrome: the lack of suckling ability in newborn beef calves."
Kim, Hak-Nam, M. Hugh-Jones, B.M. Olcott, G.M. Strain, R.A. Godke.
44. V International Symposium on Veterinary Epidemiology and Economics, Copenhagen, Denmark, 29-31 July, 1988.

"Seroconversion rates to bovine leukosis virus, bluetongue virus, *Leptospira hardjo*, and *Anaplasma marginale* infections in a random series of Louisiana beef cattle."
M.E. Hugh-Jones, W. Hubbert.

"The prevalence of bovine dermatophilosis in Zambia."
K.L. Samui & M.E. Hugh-Jones.

"The financial impact of bovine dermatophilosis in Zambia"
K.L. Samui & M.E. Hugh-Jones.

"Remote recognition of *Amblyomma variegatum* habitats in Guadeloupe using LANDSAT-TM imagery." M.E. Hugh-Jones, N. Barre, G. Nelson, C. Wheyness, J. Warner, G. Garris, W. Hubbert.

48. Entomological Society of America, Louisville, Kentucky, 4-8 December, 1988.

Poster "Identification of *Amblyomma variegatum* habitat in Guadeloupe using Landsat-TM imagery." M.E. Hugh-Jones, N. Barre, G. Nelson, G. Garris.

49. International Workshop on Anthrax, Winchester, England, 13-14 April, 1989.

"Global trends in the incidence of Anthrax in livestock."
M.E. Hugh-Jones.

50. Seventh International Conference on Production Disease in Farm Animals, Cornell University, Ithaca, New York, 25-27 July, 1989.

"Suckling problem calves: some epidemiologic observations."
M.E. Hugh-Jones, H.N. Kim, R.A. Godke, B.M. Olcott, G.M. Strain, D. Cho.

51. Joint Meeting of the Louisiana Mosquito Control Association and the Texas Mosquito Control Association, Shreveport, Louisiana, 19-20 October, 1989.

"A proposed rapid response system for equine encephalitis."
M.E. Hugh-Jones.

52. Entomological Society of America National Meeting, San Antonio, Texas, 1-4 December, 1989.

"Application of satellite images (remote sensing) in modelling distribution and population dynamics of ticks and tick-borne diseases."
M.E. Hugh-Jones.

53. Ames Research Center, National Aeronautics and Space Administration, Moffett Field, California 94035, 02 February, 1990. Invited seminar.
- "LANDSAT-TM identification of the habitats of the cattle tick, *Amblyomma variegatum*, in Guadeloupe, F.W.I." M.E. Hughes.
54. American Mosquito Control Association Annual Meeting, Lexington, Kentucky, 1-5 April, 1990.
- "The future for remote sensing in mosquito surveillance and epidemiology." M.E. Hughes.
55. International Conference on the Application of Remote Sensing to Epidemiology and Parasitology, Baton Rouge, Louisiana, USA, June, 1990.
- Poster -"Identification of *Amblyomma variegatum* habitat in Guadeloupe using LANDSAT-TM imagery." M.E. Hughes, N. Barre, C. Wehren, J. Warner, J. Garvin, G. Nelson, G. Garris.
56. American Meteorology Society, Central Louisiana Chapter, Baton Rouge, Louisiana, 13 September 1990.
- "Animal health and weather." M.E. Hughes.
57. Animal Disease Research Workers in Southern States Southern Conference on Avian Diseases and Southern Conference on Animal Parasites, Auburn, Alabama, 24-26 March, 1991.
- "Applications of Remote Sensing and Geographic Information Systems to Epidemiology and Igor Piskun's Rule." M.E. Hughes.
- "Anthrax: An eradicable zoonosis?" M.E. Hughes.
59. VI International Symposium on Veterinary Epidemiology and Economics, Ottawa, Canada, 16 August, 1991.
- "Remote Sensing and Geographic Information Systems, Epidemiology and Igor Piskun's Rule." M.E. Hughes.
- Poster -"Anthrax, an eradicable zoonosis?" M.E. Hughes.
- Poster -"The development of a new USDA residue surveillance program." Tari P. Kindred and Martin E. Hughes.

Martin Hugh Jones

78. ISVEE, Paris, France, 31 July, 1997

“Chromosomal genetic markers of *Bacillus anthracis* and related epidemiology.”

M.E. Hugh Jones, P. Jackson, P. Keim, A. Khalif, & K. Smith

79. International Disaster Conference, Havana, Cuba, March 20, 1998

“Application of GIS & Remote Sensing in natural emergencies involving

"Distinguishing natural and unnatural outbreaks of animal diseases."
Martin Hugh Jones

87. Louisiana Mosquito Control Association, Lafayette, LA, October, 1998
"Anthrax in cattle" Martin Hugh Jones & Kimothy Smith
88. WHO - Future trends in Veterinary Public Health, Teramo, Italy, March, 1999
"Future developments in information technology and availability in relation to Veterinary Public Health" Martin Hugh Jones, Frederick Angulo, Ottorino Cosivi, & Randy Crom
"Increased trends in population growth, international travel and urbanisation, climatic and other environmental changes and their implications in Veterinary Public Health" Martin Hugh Jones, Adriano Mantovani, & Carlos de Souza Mierelles
90. Indications and warning of biological warfare use by terrorists: Workshop IV of Working with the Public Health Sector, MitreTek, McLean, VA, 12 April, 1999
"ProMED-mail and the Internet" Martin Hugh Jones
91. NATO - Advanced Research Workshop, Bucharest, Romania, June, 1999
"Animal disease reports" Martin Hugh Jones
92. Society for Tropical Veterinary Medicine, 5th Biennial Conference, >Tropical diseases: Control and prevention in the context of the New World Order, Key West, FL, June 12-16, 1999
"What and how we communicate" Martin Hugh Jones (keynote address)
93. Second International Workshop on the Molecular Biology of *Bacillus cereus*, *Bacillus anthracis* and *Bacillus thuringensis*, Taos, New Mexico, August 11-13, 1999
"Molecular diversity in *B. Anthracis*" L.B. Price, A.M. Klevytska, K.L. Smith, M. Hugh Jones, J.M. Schupp, K. Hill, G. Zinser, R. Okinaka, D.M. Adair, P. Jackson, and P. Keim.
94. Topics in Emerging Infectious Disease, Tufts University School of Veterinary Medicine, New Grafton, MA, Saturday, March 25, 2000

"Global Anthrax Surveillance" Martin Hugh-Jones

95. Diseases in Nature, Texas Department of Public Health, San Antonio, TX, 28-March, 2000

"Molecular Epidemiology of Anthrax." Martin Hugh-Jones

96. Annual Conference of the Louisiana Public Health Association, Lafayette, LA, 26-April, 2000

"Public Health Aspects of Anthrax." Martin Hugh-Jones

97. III Annual Meeting of the Gulf Coast Tropical Medicine Association, Baton Rouge, LA, 10 June, 2000

"Anthrax epidemiology." Martin Hugh-Jones

98. 55th Annual International Northwestern Conference on Diseases in Nature Communicable to Man, Fort Collins, Colorado, USA, August, 2000

"Epidemiological applications of *Bacillus anthracis* multi-locus VNTR analysis" K. Smith, C. Keyes, M. Hugh-Jones, P. Keim

"Evolutionary and epidemiological relationships in *Bacillus anthracis* G. Zinser, L. Price, A. Klevytska, K. Smith, J. Schupp, R. Okinaka, P. Jackson, M. Hugh-Jones, P. Keim

100. IX International Symposium of Veterinary Epidemiology & Economics, Breckenridge, CO, 1 August, 2000

"Markov-chain model simulation of *Mycobacterium leprae* infection in nine-banded armadillos" D.T. Scholl, R.W. Truman, & M.E. Hugh-Jones

"ProMED." M. Hugh-Jones, T. Garland & P. Cowen [and poster]

"Chromosomal genetic markers of *Bacillus anthracis* and related epidemiology." M. Hugh-Jones, P. Keim, K. Smith & P. Coker

102. "Agro-terrorism: What is the threat?" Peace Studies Program, Cornell University, Ithaca, NY, 1-3 November, 2000

"Mission: Strategies of an agroterrorist." Martin Hugh-Jones

104. Anthrax Workshop, University of Alberta, Edmonton, AB, Canada, 24 November, 2000
- "Anthrax in wildlife." Martin Hugh-Jones
105. Bioterrorism: Public Health Emergency & National Security Threat, The 2nd National Symposium on Medical & Public Health Response, Washington, DC, 28-29 November, 2000.
- "Global awareness of disease outbreaks: The experience of ProMED
Martin Hugh-Jones
106. Western Veterinary Conference, Las Vegas, NV, 14 February, 2001.
- Emergency Preparedness Exercise: "Bioterrorism Anthrax: Natural or Intentional."
Ronald Anderson, Ted Cieslak, Gary Dirks, Martin Hugh-Jones, Kim Randall & Randall Todd
107. Graduate student association, Department of Geography & Anthropology, Louisiana State University, Baton Rouge, 23 March, 2001
- "Strategies of bioterrorists" Martin Hugh-Jones
108. Nightline, national ABC TV, 27 March, 2001, interview on foot and mouth disease and its threat to the USA; taped in Baton Rouge.
109. ITN Evening News, London, 30 March, 2001, interview on foot and mouth disease; taped in Baton Rouge.
110. Russian Academy of Science National Academy of Sciences USA Workshop on Terrorism in High Tech Society, Moscow, 6 June, 2001.
- "Agricultural Bioterrorism." Martin Hugh-Jones
111. 4th International Conference on Anthrax, Annapolis, MD, USA, 30 June, 2001.
- "Global Report" Martin Hugh-Jones
- "Epidemiological applications of the *Bacillus anthracis* multi-locus VNTR analysis in the Kruger National Park" K.L. Smith, V. De Vos, H. Bryden, M.E. Hugh-Jones, P. Keim

"Molecular epidemiology of *Bacillus anthracis* in Italy." A. Fasanella, K.L. Smith, C. Keys, P. Coker, P. Keim, M. Hughes

"Molecular epidemiology of *Bacillus anthracis* in China." B. Wang, K.L. Smith, C. Keys, P. Coker, P. Keim, M. Hughes

"Dissection of *Bacillus anthracis* into distinct types using MLVA." P. Keim, G. Zinser, D. Solomon, C. Keyes, L. Price, A. Klevytska, K. Smith, M. Hugh-Jones

Poster:

"Seroconversion in bison (*Bison bison*) in northwestern Canada experiencing sporadic and epizootic anthrax." C.B. Turnbull, J. Ricks, I. Thompson, M. Hugh-Jones, B. Elkins

117. GISVET: Geographical Information Systems in Veterinary Science, Lancaster University, England, 14 September, 2001

"Whither medical and veterinary GIS?" Martin Hugh-Jones

118. Louisiana Mosquito Control Association - Texas Mosquito Control Association South Central Regional Mosquito Control Conference, Lake Charles, LA, USA, 29-31 October, 2001

"Characterizing temporal distribution of potential arbovirus vectors: Initial results from a St. Tammany parish field experiment." Gleiser, R.M., R. Campanella, B. Shelby, M.E. Hughes & D. Wesson

119. New Orleans Citywide Infectious Diseases Conference, "Bioterrorism: Selected Topics", Children's Hospital, New Orleans, 2 November, 2001

"Organizing responses to bioterrorism: An overview" Martin Hugh-Jones

120. 50th Annual meeting of the American Society of Tropical Medicine & Hygiene, Atlanta, GA, USA, 11-15 November, 2001

"Temporal distribution of mosquitoes in southeast Louisiana." Gleiser, R.M., R. Campanella, B. Shelby, M.E. Hughes & D. Wesson

121. American Association of State Colleges and Universities, annual meeting, New Orleans 18-20 November, 2001: "Moral leadership in the new millennium"; spouse session, November 18, "Courage today: A call to action and a voice of calm."

"Anthrax and Universities" Martin Hugh-Jones

122. Lagniappe Studies Unlimited, First Christian Church Fellowship Hall, 8484 Old Hammond Highway, Baton Rouge, 28 November, 2001

"All you wanted to know about anthrax and didn't dare" ask
Martin Hugh-Jones

123. DARPA, "Genome Sequencing for Defense Workshop", Walter Reed Army Medical Center, Forest Glen Annex, Silver Spring, MD, 4 December, 2001

"All you never wanted to know about anthrax" Martin Hugh-Jones

124. Agency for Toxic Substances & Disease Registry, "Quantifying Anthrax Exposure & Risk," Holiday Inn, Decatur, Georgia, 9 December, 2001

"Sverdlovsk data" Martin Hugh-Jones

125. "Exceeding Expectations" Conference Proceedings Ontario Veterinary Medical Association, Toronto, 24-26 January, 2002

"Bioterrorism" Martin Hugh-Jones

"Agrocommunication: ProMEDmail" Martin Hugh-Jones

"Foot and Mouth Disease" Martin Hugh-Jones

128. "Bioterrorism." Royal Society of Medicine, London, 26 March, 2002

"Anthrax Events in USA" Martin Hugh-Jones

129. "Academic Symposium on Bioterrorism: Science, Security, and Preparedness", Lewis Thomas Laboratory, Princeton University, Princeton, NJ, 11 October, 2002

"The Anthrax Incidents in the USA" Martin Hugh-Jones

130. Agenda for Action: Veterinary Medicine's Role in Biodefense & Public Health, JW Marriot Hotel and National Press Club, Washington, DC, 1 November, 2002

"Surveillance for Emergencies" Martin Hugh-Jones

131. Western Veterinary Conference, Las Vegas, NV, 19 February, 2003

"Bioterrorism Attacks Against Animals & Public Health"

Martin Hugh-Jones

"Recognising Bioterrorism" Martin Hugh-Jones

133-40 5th International Conference on Anthrax, 6th International Workshop on Molecular Biology of *Bacillus cereus*, *B. anthracis* and *B. thuringensis* Nice, France, March 30 to April 3, 2003

"Evolution of *B. anthracis* subtypes from a *B. cereus* ancestor: VNTR and SNP for evolutionary analysis." Paul Keim, M. van Ert, T. Read, J. Busch, J. Ravel, T. Pearson, L. Huynh, G. Zinser, D. Solomon, J. Farlow, C. Keys, K. Smith, L. Price, J. Schupp, P. Coker, K. Hill, K. Harding, P. Jackson, M. Hughes

"Global anthrax ." Martin Hugh-Jones

"Anthrax in North America" K.L. Smith, M.E. Hugh-Jones, P.R. Coker, M. van Ert, J. Farlow

"Improving Public Health preparedness for anthrax epidemics
Williamina Wilson, Peter Turnbull, Ottorino Cosivi, Martin Hughes,
Rachel Bauquerez & David Ashford

Posters

"Strain typing using single nucleotide polymorphisms from whole

- Mekary, R.A., Lindsey, S., Lindberg, J., Hugones, M., Hegsted, M.,
142. Department of Veterinary & Microbiological Sciences, North Dakota State University, Fargo, ND, 2 May, 2003
- “ProMED” Martin HughJones
143. “Hot Zone Lecture”, Century Theater, NDSU Memorial Union, North Dakota State University, Fargo, ND, 2 May, 2003
- “Epidemiology of Anthrax.” Martin HughJones
144. 53rd Annual Southwest Conference on Diseases in Nature Transmissible to Man, Ambassador Hotel, Amarillo, TX, June 25, 2003
- “The ecology of anthrax in Texas” Martin HughJones
145. “Antrace: Una malattia antica, una emergenza attuale”, International Conference, Vieste, Italy, 10-11 October, 2003
- “Incidence of anthrax worldwide” Martin HughJones
- “Anthrax ecology: North America & elsewhere.” Martin HughJones
147. Anthrax Collaborators Meeting, School of Veterinary Medicine, Louisiana State University, Baton Rouge, LA, 20 February, 2004
- “Ecology of anthrax in Texas” Martin HughJones & Jason Blackburn
148. 1er Simposio Argentino sobre Investigación y Conservación de Rapaces – SAICR, Museo de Isa Plata, La Plata, Buenos Aires, Argentine, October 2004
- “Presencia de *Bacillus anthracis* en rapaces de Argentina”
Miguel D. Saggese, Ramón P. Nosedá, Marcela Uhart, Sharon L. Deem, Hebe Ferreyra, Marcelo Romano, María C. Ferreras y Martin Hugh-Jones
149. “Sanitary Security of the Commonwealth of Independent States: Issues of Biological Safety and Bioterrorism Countermeasures in Modern Conditions’, Volgograd, Russia 2005
- “Application of Geographical Information System in Surveillance of Especially Dangerous Infections in Kazakhstan (Anthrax surveillance example)”
A.M. Aikimbaev, E.B. Sansizbaev, M.E. Hugones, J. Blackburn, A. Curtis, L.Y. Lukhnova

“Field validation of fundamental niche predictions of *Bacillus anthracis* for the US.” JK Blackburn, ME Hugh-

“Investigation on *Bacillus anthracis* circulating in Bangladesh through the analysis of soil samples in areas at risk and imported animal feed.”

CREATIVE ACTIVITIES:

Epidemiological Studies of Chronic Diseases of Animals, WHO, Geneva, 4 July 1969.

Department of Microbiology and Immunology, Ontario Veterinary College, University of Guelph, Canada, 4 May-14 June 1973.

Department of Microbiology and Immunology, Ontario Veterinary College, University of Guelph, Canada, 5 June 1977, FAO/CIDA course for Epidemiologists.

Central Veterinary Laboratory, Kabete, Kenya, 12 May (and 10-15 June, FAO, Rome) 1978, to evaluate and design the development program for a national animal disease surveillance system.

Food and Agriculture Organisation of the United Nations, Rome, 27 August-September 1978, to take part in discussions on the future strategies and activities of the Animal Health Division in relation to veterinary epidemiology and economics.

Food and Agriculture Organisation of the United Nations, Rome, 8-9 September 1978, to help run Seminar on Veterinary Data Base Improvement and Economics of Disease Control.

United Nations Development Program, 22-October 1978, to chair a joint UNDP/PAHO/CDA mission to evaluate project CAR/74/OO8 diagnostic laboratories on Grenada, St. Vincent, and St. Kitts.

Ministry of Livestock and Range Management, Mogadishu, Somalia, 13 August-September 1979 (through FAO) to advise on the future activities of the veterinary diagnostic laboratories and Project SOM/78/006.

Food and Agriculture Organization of the United Nations, Seminar on Veterinary Epidemiology, Disease Surveillance Systems, and Economics of Disease Control, FAO appointed Group Chairman, 27-September 1979, Bali, Indonesia.

Caribbean Epidemiology Research Centre, Pan American Health Organisation, Trinidad, BWI.

18-25 April 1981, to advise and develop a system for zoonotic disease surveillance in CAREC associated countries in the Caribbean, including Belize, Guyana and Suriname.

4-28 July 1981, tour of Trinidad, Suriname, Guyana, Barbados, St. Vincent and Grenada to identify surveillance capacities and important zoonotic diseases.

5-25 September 1981, to tour St. Kitts/Nevis, Antigua, Montserrat, Dominica, St. Lucia, Barbados, Jamaica, Cayman, Bahamas and Belize, to complete study in preparation for the submission of the proposed surveillance system at the Veterinary Public Health Regional Workshop in Jamaica, 11 November 1981.

World Health Organization, Washington, D.C., 15-April 1983. Consultation on Veterinary Participation in Primary Health Care.

Inter-American Institute for Cooperation on Agriculture, St. Lucia 26-27 November and 13-22 December, 1983, preliminary studies on the economic feasibility of an *Amblyomma variegatum* eradication program.

Food and Agriculture Organisation of the United Nations, Jamaica. Consultant Project Leader for \$US 60,000 project TCP/JAM/44O4(f) to improve veterinary services in Jamaica. Project scheduled for 18 months, extended to 2 years. Site visits 12 July - August, 1984; 22 December, 1984; 23 March, 1985; 17 July 7 August, 1985; 4-8 January, 1986; 17 May 7-June, 1986.

Food Safety and Inspection Service, United States Department of Agriculture, Review of enzyme immunoassay for trichinellosis. March 19, 1985. Beltsville, Maryland.

Food and Agriculture Organisation of the United Nations, Chairman and Organizer of "Roundtable on Animal Health and Improvement of Productivity in English-Speaking Caribbean," Kingston, Jamaica. 22 September, 1986.

USDA/FSIS "Health Related Program Planning and Evaluation" Workshop, Workshop Chairman, USDA Annex Bldg, 300 12th St., NW, Washington, DC, 16 March 1990.

International Conference on Applications of Remote Sensing to Epidemiology and Parasitology, Conference Chairman and Organizer, Baton Rouge, Louisiana, USA, 6-June, 1990.

World Health Organization/National Aeronautical and Space Administration/United Nation Environment Programme Workshop on the Surveillance of Vectorborne Diseases, Rapporteur, Baton Rouge, Louisiana, USA, 6 June, 1990.

WHO Informal Consultation on Anthrax Control and Research, World Health Organization, Geneva, Switzerland, 15-November, 1990.

Academy of Sciences of the USSR, Moscow, with Dr. Oscar Huh, Earth Scan Laboratory, LSU, to discuss collaborative USSR/Russia-LSU programme of research and training in applications of remote sensing and GIS, 26 December, 1990, to 13 January, 1991.

Environmental Research and Information Centre, Ministry of Environment, and Institute of Hygiene and Occupational Health, Bulgarian Medical Academy, with Dr. Oscar Huh, Earth Scan Laboratory, Louisiana State University, to continue discussions on collaborative USSR-Bulgaria-LSU program of research and training in applications of remote sensing. GIS, Sofia, Bulgaria, 29 May, 1991.

Participated as Session Chairman & Rapporteur in the NASA funded workshop "Remote Sensing, Environmental Change and Human Health," Aspen Center for Environmental Change Institute, Aspen, Colorado, 12-17 July, 1991. This extremely valuable workshop defined the NASA middle- and long-term strategies for remote sensing applications in health and disease control. The attendance was by invitation and represented thirteen U.S. universities, and experts from the UK, France and Argentina, and AAAS, NASA, USAMRIID, USGSEROS.

Official Observer at the PAHO/CARICOM/Jamaica Government meeting in Kingston, Jamaica, 2-24 October, 1991, on:

1st Meeting of the Technical Group of the Subcommittee of Food and Mouth Disease-Free countries of the Caribbean Subregion;

Seminar on the Risk of Transmission of Foot and Mouth Disease Virus through Meat Imported from Infected Countries;

Working Group for the Preparation of the 5-year Strategic Plan for the Development and Strengthening of Veterinary Public Health in the Caribbean.

Participated in investigation of the 1979 Anthrax epidemic in Sverdlovsk, visiting Moscow and Yekaterinburg (Sverdlovsk). 17 June 1992.

Presented case on "Moderna Vigilancia Epidemiologica" at Escola de Veterinaria, Department of Medicina Veterinaria Preventiva, Univ. Federal de Minas Gerais, Belo Horizonte, Brazil, funded by the American Society of Microbiology and the Minas Gerais Ministry of Agriculture. 16-27 November 1992.

Participated in the NASA "Workshop on Remote Sensing of Vector Borne Diseases Associated with Environmental and Cultural Change" 6-12 May, 1993, at the Marconi Conference Center, Marin County, California. This meeting involved 37 invited individuals in public health, entomology, remote sensing, veterinary medicine, and space engineering from Argentina, Brazil, Switzerland, UK, the Netherlands, and the USA, and from CDC, NASA, NIH, USAID, World Bank, and ITC, WHO/PEEM. Elected to be a member of the NASA Public Health Action Committee.

WHO Consultation on Development and Application of Geographic Methods in the Epidemiology of Zoonoses, Federal Research Centre for Virus Diseases of Animals, Institute of Epidemiology, Wusterhausen, Germany, 30 May-2 June, 1994, Session Chairman and Speaker.

Session Chairman, "Modelling Animal Disease", First World Congress on Computational Medicine, Public Health and Biotechnology, Austin, ~~28~~ April, 1994.

Coordinator, 1st Meeting of the IAEA/FAO/PAHO/WHO Coordinated Research Project on Application of Irradiation for the Prevention of Foodborne Diseases, LSU School of Veterinary Medicine, Baton Rouge, Louisiana, ~~16~~ September, 1994.

PAHO Working Group on Prevention, Control, and Eradication of Brucellosis in Latin America and the Caribbean, Instituto Panamericano de Proteccion de Alimentos y Zoonosis, Buenos Aires, ~~16~~ November, 1994.

WHO-Coordinated Working Group on Anthrax, Winchester, England, ~~23~~ September, 1995. Chaired meeting and presented two papers on surveillance problems and biological warfare.

IXth Inter-American Meeting at the Ministerial Level on Animal Health, RIMS9, PAHO/WHO, Washington DC, ~~27~~ April, 1995, presented, in plenary session, the report of the PAHO Working Group on "The Prevention, Control, and Eradication of Brucellosis in Latin America" /P(e)63 (y s)-1 frucEMC /P(e)63 (y se.nd E)1 (r).(.)2 (g)oa

External examiner to the graduate programme at North Carolina State University Veterinary College, Raleigh, NC, 17-19 November, 2002.

Louisiana Mexico Hurricane Workshop, Louisiana Office of Emergency Preparedness, Baton Rouge, 21-23 January, 2003. Presented project on the development of plans & relevant databases for veterinary clinic preparedness in New Orleans.

Committee on Disaster & Emergency Issues (CDEI), American Veterinary Medical Association, 1931 North Meacham Rd., Schaumburg, IL 60173, 6-7 February, 2003, presented paper on "Surveillance for Emergencies."

Chaired WHO Anthrax Working Group meeting, Nice, France, March 30-31, 2003

Invited Observer, Meeting of the Hemispheric Committee for the eradication of Foot and Mouth Disease, IX COHEFA, Pan American Health Organization, World Health Organization, Washington, DC, 22 April, 2003

Invited Observer, 3rd Ordinary Meeting of the Pan American Commission for Food Safety, III COPAIA, Area Disease Prevention & Control Veterinary Public Health Unit, ~~City of State/Dept (C-11) 23 (E) 4 (S) BDD (i) ETC (t) 42 (H) 2 (a) 4 (r) 23 (r) 1 (e) -~~

Bovine Spongiform Encephalopathy in the Americas: Being proactive and building national capacity, IICA & PAHO, Crowne Plaza Hotel, Houston, 4 March, 2004,

Bio-Terrorism Brainstorming Workshop, University of Kansas, Lawrence, 27-28 May, 2004

"In Vitro and Animal Models for Emerging Infectious Diseases and BioDefense." (Parts C, D & E) NIAID/NIH Grants Review, June-80, 2004, Arlington, VA

Ad-Hoc Surveillance Meeting, OIE, Paris, France, November 4, 2004

Bioterrorism Risk Assessment – Systematic Subject Matter Expert (SME) Elicitation Workshop, Biological Threat Characterization Program Department of Homeland Security, Cheyenne Mountain Resort, Colorado Springs, CO, 05 July, 2005

Anthrax Consultation Meeting, Fargo, North Dakota, October 24, 2005. Purpose to review that summer's severe anthrax outbreak that occurred in multiple (North Dakota (ND), South Dakota (SD), Minnesota (MN) and Montana (MT)) and Manitoba (MB)

Review of the Center for Nonproliferation Studies, Monterey Institute of International Studies, CDC project, Monterey, CA, USA, January 9, 2006

The Cooperative Biological Research Program Review, Crystal City Marriott, Arlington, Va, USA, 23-26 January, 2006

KZ-1 CRDF visit to KZSCQZD, Almaty, Kazakhstan, 26-June, 2006

KR1101 trip with project collaborators, Dr Antonio Fasanella (Istituto zooprofilattico Sperimentale della Puglia della Basilicata, Foggia), and Dr. Asankadsyr Junushov (Biotechnology Institute of National Academy of Sciences of Kyrgyzstan, Bishkek) to Southern Italy and Kyrgyzstan (MHJ, not AF), 8 to 24 September, 2007

VMP 945-200, "Epidemiology & Public Health", College of Veterinary Medicine, North Carolina State University, "Challenges & Opportunities in Animal & Human Health" subsection, 19 February, 2008, 10am EST by teleconference class discussion on global warming and emerging infectious diseases.

2008 Biological Threat Reduction Program (BTRP) Science Review, Edelweiss Conference Center, Garmisch-Partenkirchen, Germany, April 14-17, 2008

58th James H. Steele Conference on Diseases in Nature Transmissible to Man, -April 22-24, 2008, Moody Gardens Hotel, Galveston, TX

Beyond Borders: Regional Animal AgroSecurity, FargoDome, NDSU, Fargo, ND, June

PROFESSIONAL ORGANIZATIONS:

Royal College of Veterinary Surgeons
American College of Epidemiology, Fellow
British Veterinary Association (1965-1988)
Epidemiology Club (UK)
International Epidemiological Association
International Biometeorological Society
American Veterinary Medical Association
Society for Computer Simulation (1978-1981)
Association of American Veterinary Medical Colleges
United States Animal Health Association
Association of Teachers of Veterinary Public Health and Preventive Medicine
Louisiana Livestock Association

COMMITTEES:

World Meteorological Organisation, Committee for Agricultural Meteorology, Joint WMO-FAO Working Group on "Weather and Animal Production and Health", Chairman (1970-1983)

World Health Organisation, Anthrax Research & Control Working Group, Coordinator (1996): Member of Working Group for Global Eradication of Anthrax (1989-1995)

National Academy of Sciences, Subcommittee on Research and Diagnosis on Foreign Animal Disease (1983-1984)

International Society of Veterinary Epidemiology & Economics

- a) III International Symposium on Veterinary Epidemiology & Economics, 10-16 September 1982, Arlington, Virginia, USA, Scientific Subcommittee (Chairman)
- b) Secretary, ISVEE (1982-1985)

United States Animal Health Association Committee on Morbidity & Mortality (1981)

Association of Teachers of Veterinary Public Health and Preventive Medicine, Member of Council (1980)

International Conference on Impact of Diseases on Livestock Production in the Tropics, IV Int. Conf. Inst. Trop. Vet. Med., 9-13 May 1983, Kissimmee, Florida, USA. Member of Organizing Committee and Session Chairman

NASA Public Health Action Committee (1992)

Member of Organising Committee for *First World Congress on Computational Medicine, Public Health and Biotechnology*, 24-28 April, 1994, Austin, Texas

Courses and Curriculum Committee (1993-20012)
Selection Committee for Faculty Distinguished Scholar Award (1995)
Faculty Recognition and Teaching Excellence Committee (1991-19992002)

AWARDS, LECTURESHIPS, OR PRIZES THAT SHOW RECOGNITION OF SCHOLARLY OR ARTISTIC ACHIEVEMENT:

Bull Fellow, Ontario Veterinary College, 4 May-4 June, 1973
Aesculapian Lecturer, in recognition of distinguished achievement, Louisiana State University School of Veterinary Medicine, 1984
Distinguished Scholar Award, School of Veterinary Medicine, LSU, 1993
Excellence in Teaching, Louisiana State University, 1993
Award of Recognition, in recognition of his leadership, guidance and service in *Veterinary Medicine*, Award of Recognition Member for 1995, Association of Teachers of Veterinary Public Health & Preventive Medicine
Colonel (Hon), Oklahoma Air National Guard. 1999
Specialist in Veterinary Epidemiology, Royal College of Veterinary Surgeons, 2000-2004
Mary Louise Martin Professor. LSU School of Veterinary Medicine. June 2000 – December 2004
KZ-1 Team (member), *Scientific Achievement Award*, The Cooperative Biological Research (CBR) Program Review, Garmisch, Germany April 2-5, 2007
Honorary Lifetime Membership, Society for Veterinary Epidemiology & Preventive Medicine, United Kingdom 2004
Honorable Professor, Biotechnology Institute of the National Academy of Sciences of the Kyrgyz Republic 2007
Certificate of Lifetime Membership, Louisiana Veterinary Medical Association, 2009
Sr. Academico Correspondiente Extranjero, Academia Nacional de Agronomia y Veterinaria de Republica Argentina June 10, 2016

EDITORIAL BOARD:

Preventive Veterinary Medicine (1998-2006); Book Review Editor (1999-2006)

GRANTS AND CONTRACTS. FUNDING SOURCE AND OTHER PERTINENT INFORMATION:

Research Projects, Funded or Awaiting Funding:

FUNDED

Principal Investigator

'Calf Mortality Study'

- Co-Investigator, Dr H.V. Hagstad (ECH)
- Organized Research Funds SVM 82, 1999, \$2300.00
- Organized Research Funds SVM 161, 1980, \$1520.00

'Epidemiological Studies on Porcine Trichinosis in Southern Louisiana'

- Principal Investigators, Drs. M. Hughes and H.V. Hagstad (ECH), and Dr. T.B. Stewart (VMP & Vet Science)
- Louisiana Pork Promotion Board, 1980, \$9630.00
- Louisiana Pork Promotion Board, 1982, \$3000.00 (awarded 1983)

'Bovine Respiratory Disease and Sentinel Herd Project'

- Principal Investigators, Dr. M. Hughes (ECH) and Dr. R. Fulton (VMP)
- Co-Investigators, Dr. I. Smart (AnSci), Dr. W. Springer (VS), Drs. H. Cox & J. Malone (VMP), Dr. H. Hagstad (ECH)
- Louisiana Beef Industry Council, 1982, \$25,000.00
- Louisiana Beef Industry Council, 1983, \$25,000.00

'Remote Counting of Cattle'

- Principal Investigator, Dr. M. Hughes (ECH)
- Organized Research Funds, SVM 242, 1982, \$1500.00

'Serum Bank'

- Principal Investigator, Dr. M. Hughes (ECH)
- Louisiana Department of Agriculture, 1981, \$37,000.00
- Louisiana Department of Agriculture, 1982, \$31,000.00
- Louisiana Department of Agriculture, 1983, \$30,000.00

'Economic Implications of Anaplasmosis in Louisiana'

- Co-Investigator, Dr. R.S. Morley (ECH) and Dr. R. Corstvet (VMP)
- Organized Research Funds SVM 380, 1983, \$3,332.00
- Organized Research Funds SVM 473, 1984, \$2,180.00

'Neonatal Anorexia' ("Dummy Calf" Syndrome)

- (1) -- Principal Investigators, Drs. M. Hughes (ECH), G. Strain (VPT), B. Olcott (VCS), D. Cho (VP)
 - American Brahman Breeders Association, 1984, \$6,228.00.
- (2) -- Principal Investigators, Drs. M. E. Hughes (ECH), G. Strain (VPT), R. Godke (An. Sci)
 - Kerr Foundation, 1986, \$12,870.

'Animal Health Programming, TCP/JAM/ 4404(F)'

- Principal Investigator, Dr. M. Hughes (ECH)
- Food and Agriculture Organization of the United Nations, 1984-1985, \$60,000.00

'Sabbatic with U.S. Army Medical Research Institute of Infectious Diseases, I.P.A. Grant,' 1986-87

- Principal Investigator Dr. M. Hugh Jones
- Estimated value \$60,000

'International Conference on Application of Remote Sensing to Epidemiology and Parasitology,' 6-7 June, 1990

- Conference Chairman Dr. M. Hugh Jones
- Louisiana State University \$3,263
- Pfizer Inc- \$2,600
- Department of U.S. Army \$7,000
- World Health Organization \$10,000

'Remote sensing and geographic information systems at the Louisiana State University School of Veterinary Medicine

- Principal Investigators: Martin Hugh Jones (ECH) and Jack Haynes (Cadgis Lab)
- Co-Investigators: Nia S. Lam (Geography and Anthropology) and Jack Malone (VMP)
- Louisiana Education Quality Support Fund (LEQSF) 1990 \$76,508

St. Tammany Mosquito Control District No. 2 for studies on Eastern Equine Encephalitis

- 1992 -\$3,500
- 1993 -\$3,500
- 1994 -\$3,500

Emerging Disease Program/Office of Research & Development, Washington, DC, for

- "Strain Identification #8080, \$375,000, July 1995-December 1997
- "Economic Impact (of Newcastle Disease) #8150, \$100,000, July 1996 -June 1997

Chemical & Biological NonProliferation Program, Department of Energy, Washington, DC:

- "BioFoundations The Strain Archive"
2000 -\$70,000
2001 -\$38,000

Emerging Diseases Program, National Institutes of Health PI with Dr. Paul Keim, Northern Arizona University, Flagstaff. 2000-2003 c \$1,542,300.

- Co-PI share:2000-2001: \$59,000
2001-2002: \$60,000
2002-2003: \$68,000

Hurricane Project: "Assessment and remediation of Public Health impacts due to

-- United States Department of Agriculture, Grant No. CRIS-2-2446,
\$104,881, 07/01/84-06/30/87

'Use of polymerase chain reaction for detection of *Mycoplasma mycoides*
subspecies *mycoides* SC type DNA from clinical samples in Africa

-- Principal investigator, Dr. A.S.H. Kalif (Graduate Student, ECH)
-- The Rockefeller Foundation, \$19,100, 07/01/93-30/94

Baton Rouge Healthy Start Project, four years, \$700,000

-- Subcontract: "Eliminating disparities in perinatal health; evaluation
component," LSU 14603, \$217,430
-- Principal Investigator, Dr Andrew Curtis (LSU Geog & Anth)
-- Co-Investigator, Dr. Martin Hughes, PBS

FUNDING AGREED BUT NO FUNDS AVAILABLE

'Control and Eradication of Bovine Brucellosis and Control of Liver Flukes in
Louisiana Coastal Marshes'

-- Principal Investigators, Dr F Enright (VP), Dr M Hughes (ECH)
and Dr J Malone (VMP)
-- USDA-APHIS, 198081, \$100,000.00

'Control and Eradication of Bovine Brucellosis and Control of Liver Flukes in
Louisiana Coastal Marshes'

-- Principal Investigators, Dr F Enright (VP), Dr. M Hughes (ECH),
and Dr J Malone (VMP)
-- Louisiana Department of Agriculture, 1980, \$100,000.00

THESIS/DISSERTATIONS DIRECTED

PhD	Alberto Orego	1982	Department of Vet Science.
	Randy Morley	1985	ECH, Committee Chairman
	Anne Jackson	1985	Department of Geography (student withdrew)
	Richard Truman	1985	Department of Microbiology and Parasitology
	K. Yogasundram	1988	ECH
	David Stallknecht	1989	ECH

Susan E. Turnquist	1988	ECH
Clyde T. Raby	1991	ECH
Stephanie Alexander	1992	ECH
Abdullahi Kalif	1992	ECH, Committee Chairman
Donal E. Evans	1993	ECH
Ahmedin Jemal	1993	ECH, Committee Chairman
Patricia S. Rosa	1993	ECH
Desta Amare	1994	ECH
Janis Milliken	1995	ECH
Krause Wilson	1995	ExpStat
Kathleen Feaheny	1996	ExpStat
Jian Luo	1996	ExpStat
Sovann Sen	1996	ECH
Songkai Yan	1996	ExpStat
Sharron E. Barras	1997	ECH
Brent Berger	1997	ExpStat
Xiaoji Huang	1997	ExpStat
Christopher Paige	1998	ECH
Xianghua Zhang	1998	Exp Stat
Paul Spurlock	1999	ECH, Committee Chairman (student w/drew)
Jose Villamil	2000	ECH
Misty Richard	2002	ECH/PBS, Committee Chairman
Natalee Peart	2002	ECH/PBS
Terri Cochran	(2000)	ExpStat
Preston Fulmer	2003	PBS
Jason Blackburn	2003	Geog & Anth
Arianne Watkins	2003	PBS
Binru Huang	2003	ExpStat
Kate Streva	2007	College Basic Sciences
Laura Basico	2007	ENVS
Ariele Baker	2007	ENVS
Priyan Perera	2007	ENVS
Christen Gautreau	2010	ENVS
Heather Spindel	2013	ENVS
Max Miller	2014	ENVS
Isobel Pribil	2018	ENVS

External Doctoral Student Examiner:

Roly Tinline (Bristol)	1972
Dan Dragon (Edmonton)	2000
Jonathan Knight (Brisbane)	2008
Ayesha Hassan (Pretoria)	2016

