

## DAVID M. JARZEN PhD



**DAVID M. JARZEN** is a Courtesy Research Scientist in Paleobotany and Palynology at the Florida Museum of Natural History, Gainesville, Florida. Born in Cleveland, Ohio, he grew up in northern Ohio gaining an early interest in biology and natural history of the cool temperate environment. He earned his B.S. degree in 1967 from Kent State University majoring in Biological Sciences, and two years later received his M.A. degree in Botany from the same institution. In 1973 he was awarded the Ph.D. in Geology from the University of Toronto.

His research interests in the nature of extant and fossil plant life, have provided extensive field work in all regions of Canada and the United States, as well as Europe, Zambia, Cameroon, Panama, Mexico, Colombia, Puerto Rico, New Caledonia, New Zealand, Fiji, and to several localities within Australia. The focus of his work incorporates a global view towards understanding the evolution of plant life during the Earth's history, with an emphasis on palynofloras recorded from the Cretaceous and Tertiary eras. His publications of scientific papers number over 170, including both professional papers and popular articles. Some of his photography and illustrations have been seen in *Scientific American*, *The Owl Magazine*, other popular publications, on the Internet, and in museum displays in Canada and the USA. His work has been incorporated in several radio and television productions including CBC's "Nature of Things", the PBS NOVA Series, the NHK (Japan) Series "The Miracle Planet", the National Film Board of Canada, the Discovery Channel and other North American cable networks.

His work has been recognised by his colleagues through election as President of the Canadian Association of Palynologists [CAP] (1979-1980), Secretary-Treasurer to the International Federation of Palynological Societies [IFPS] (1984-1988); Vice President of the IFPS (1992-1996), and from 1988-1996 has represented the Canadian Association of Palynologists as Councillor to the IFPS. He has served as President-Elect (2000-2001) to the American Association of Stratigraphic Palynologists. He was an invited Visiting Scholar to the Department of Geology & Mineralogy (1987-1988) of The University of Queensland, Brisbane, Australia, and in 1991 and 1994 to the Botany Department of the same university. In 205 he was invited to Australia once again, this time to work with colleagues at the Queensland Museum in Brisbane, Queensland.

David has been a member of 23 learned scientific societies, including the prestigious Explorer's Club, as well as the honorary scientific society, Sigma Xi. He has served the scientific community and general public through many slide lectures, videos, CD ROMs, and popular publications. The Palynology and Paleobotany databases at the Canadian Museum of Nature (Ottawa, Canada) were designed and developed by David in co-operation with the Canadian Heritage Information Network

(CHIN) and have been used as the hallmark for all collection databases at the Canadian Museum of Nature.

At the Florida Museum of Natural History (University of Florida) he completed the restructuring of the 250,000 specimens of the Paleobotany/Palynology Collections, including a 7,000 specimen collection of extant reference pollen slides, and has raised their standards for research and display to a par with other quality museums. While at the Marie Selby Botanical Gardens in Sarasota, (2002-2003), he enriched the cultural level of educational programs and introduced the gardens and the community to internationally respected speakers through his speakers bureau and lecture series. In 2003, David was elected as Fellow National to the Explores Club, and in 2005 he was elected Fellow of the Ohio Academy of Science. David is listed in *American Men and Women of Science*, *Who's Who in Ontario (Canada)*, *Who's Who in Canadian Science*, *Who's Who in Science and Engineering*, as well as *Who's Who in America*. His extra-curricular activities include music that enhances the soul, nature photography, satirical writing, botanical illustration, and all aspects of natural history.

## ***CURRICULUM VITAE***

**JARZEN, David M.**

### **FLORIDA MUSEUM OF NATURAL HISTORY**

University of Florida  
Paleobotany and Palynology Laboratory  
Dickinson Hall  
P.O. Box 117800  
Gainesville, FL 32611-7800  
dmj@flmnh.ufl.edu

Born Cleveland, Ohio, October 19, 1941, United States Citizen

Married 1962 (Susan Althea Klein), children: Thomas David (1963), Robert James (1966)

grandchildren: David Thomas-Ray (1997), Max Thomas (2003), Phillip MacArthur (2004)

### **FORMAL EDUCATION**

1973 Doctorate (PhD) Geology, Department of Geology, University of Toronto, Toronto, Ontario, Canada. " *Evolutionary and paleoecological significance of Albian to Campanian angiosperm pollen from the Amoco B-1 Youngstown Borehole southern Alberta,*" 291 pp.

1969 Master of Arts (MA) Botany, Department of Biological Sciences, Kent State University, Kent, Ohio, U.S.A. " *Palynology of the San Sebastian (Oligocene) Formation, Puerto Rico,*" 129 pp.

1967 Bachelor of Science (BS) Biology, Department of Biological Sciences, Kent State University, Kent, Ohio, U.S.A.

### **PROFESSIONAL AFFILIATIONS [boldface active]**

**American Association of Stratigraphic Palynologists (AASP):** President-Elect 2000

Association for Tropical Biology (ATB) [1967-1993]

**Botanical Society of America, Paleobotany Section (BSA)**

**Canadian Association of Palynologists (CAP):** President-Elect 1979; President 1980; Nominating Committee 1985-1986, 1986-1987; I.F.P.S. Councillor 1988-1996;

Commission Internationale de Microflore du Paleozoique (CIMP)

**Explorer's Club,** National Fellow 2003

**Florida Academy of Sciences (FAS)** [2001- ]

**Florida Paleontological Society** (2006- )  
 Geological Association of Canada, Paleontology Division (GAC)  
 International Association for Angiosperm Paleobotany (IAAP)  
**International Federation of Palynological Societies:** Secretary-Treasurer 1984-1988;  
 Vice-President 1992-1996; (IFPS)  
**International Freelance Photographers Organization** (IFPO; Lifetime member; Hall of Fame Member)  
 International Organization of Palaeobotany (IOP)  
**Ohio Academy of Science** (OAS) [1999- elected Fellow 2005]  
**Organization for Tropical Studies** (OTS)  
 Palynological and Palaeobotanical Association of Australasia (PPAA)  
 Rainforest Conservation Society of Queensland (RCSQ)  
**Reef Environmental Education Foundation (REEF)**  
**Society for Phytolith Research** (2005 - )  
**St. John's College**, University of Queensland, St. Lucia, QLD (Honorary Lifetime Member)  
**Syncreta Writer and Associate** (2000 - )  
**The Society of the Sigma Xi** ( $\Sigma\Xi$ )[1969- ]  
 World Conservation Union, Canada (CCIUCN)

## WORK EXPERIENCE

2005/present	Courtesy Research Scientist, Palynology, University of Florida, Florida Museum of Natural History, Gainesville, Florida..
2003/2005	Research Associate, Paleobotany/Palynology, University of Florida, Florida Museum of Natural History, Gainesville, Florida..
2002/2003	Director, Global Education, Marie Selby Botanical Gardens, Sarasota, Florida.
2000/2002	Co-ordinator of Museum Operations and Collection Manager for Paleobotany and Palynology. Florida Museum of Natural History, Department of Natural Sciences, Paleobotany Division, University of Florida, Gainesville, Florida.
1997 to 2000	Collection Manager and Senior Biologist, Florida Museum of Natural History, Department of Natural Sciences, Paleobotany Division, University of Florida, Gainesville, Florida.
1994	Professional Development Leave, Department of Botany, University of Queensland, St. Lucia, Queensland, Australia (June-August)
1991	Professional Development Leave, Department of Botany, University of Queensland, St. Lucia, Queensland, Australia (September-October)
1973 to 1996	Research Scientist (Class RES-1, from September 1973 to April 1978; class RES-2 from April 1978; RES-3 from April 1994). Positions: Palynologist and Curator of Fossil Plants, Canadian Museum of Nature (formerly National Museum of Natural Sciences) Ottawa, Canada; Research Scientist, Canadian Museum of Nature.
1987 to 1988	Professional Development Leave, Department of Geology and Mineralogy, University of Queensland, St. Lucia, Qld., Australia.
1970 to 1973	Research Assistant, Department of Geology University of Toronto, Ontario, Canada
1969 to 1970	Research Assistant, Department of Botany, Indiana University, Bloomington, IN, USA
1967 to 1969	Research Assistant Palynology Laboratory, Kent State University, Kent, OH, USA

## HONORS

2007	Entered in "Who's Who in America"
2007	Entered in "Who's Who in Science and Engineering"
2005	2005-2006 The America's Registry of Outstanding Professionals

- 2005 Elected Fellow of the Ohio Academy of Science.
- 2004 Jessup-McHenry Fellowship Award for study at the Academy of Natural Sciences, Philadelphia, PA, with Dr. Lucinda McDade, palynology collections.
- 2003 Elected Fellow National to the Explorers Club, New York City, NY.
- 2001 Elected Research Associate, Marie Selby Botanical Gardens, Sarasota, Florida.
- 1994 Promotion at the Canadian Museum of Nature to RES 3 (Senior Scientist).
- 1986 Jessup-McHenry Fellowship Award for ten days study at the Academy of Natural Sciences, Philadelphia, PA, to study with Dr. B.C. Stone on evolutionary trends in the Pandanaceae.
- 1971 Scholarship at University of Toronto, Department of Geology, Graduate Fellowship.

### **EPONYMS IN HONOUR OF D.M. JARZEN**

- 1976 *Damarites yarzenii* Huertas, *Caldasia* 11:18. [Mesozoic *Agathis* cone]
- 1979 *Jarzenipollenites trinus* (Stanley) Kedves, *Acta Mineralogica-Perographica Szeged.* 24: 172. [Tertiary pollen grain]
- 1984 *Libopollis jarzenii* Farabee, et al., *Palynology*, 8: 151. [Cretaceous pollen grain]
- 1996 *Coniochaetasporites jarzenii* n. sp. in Ph.D. Thesis of Tetej Sudjaah Sulaeen, University of Queensland, Australia. [Tertiary fungal spore]
- 2002 *Jarzenia kanbrasota* Hongshan Wang; Hongshan Wang Ph.D. Thesis, University of Florida, Gainesville, Florida [Cretaceous plant macrofossils]
- 2002 *Jarzenia reticulatus* Hongshan Wang; Hongshan Wang Ph.D. Thesis, University of Florida, Gainesville, Florida [Cretaceous plant macrofossils]

### **PROFESSIONAL ORIENTATION**

Although my background training and education have prepared me for equal enthusiasm in zoological, botanical and geological studies, my endeavors into palynological studies have rewardingly combined two disciplines. A multidisciplinary approach is key towards an understanding of recent and paleoecosystems. The question of "what" has and will continue to be examined through taxonomic studies. A sound nomenclatural and taxonomic system will form the basis for research into the "why" and "how." It is the "why" and "how" which stir my imagination in answering such questions as "Why were the angiosperms successful in dominating the plant kingdom during the close of the Cretaceous and dawn of the Tertiary?" "How did the present distribution of plants come to be?" I have been fortunate during my career to make and maintain valuable contacts with colleagues in academic, government and private research organisations, who have provided me with information and assistance which would be otherwise lacking. I fully enjoy, and hope to continue active research and learning activities which require imagination and sound scientific knowledge and practice.

### **PERSONAL INTERESTS**

My foremost interest centers around the welfare and happiness of my wife and friend Susan. Photography, music and reading play an important part of the activities that I enjoy. Weekend field trips provide an appreciation of our natural world, while at the same time develop my photographic skills. Several of my photographs have been used by private and government agencies for display or publication. Music has nearly always been present in my life, for I believe as Beethoven did, that "*music should strike fire in the hearts of men, and bring tears to the eyes of women.*"

### **REFERENCES**

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## LIST OF PUBLICATIONS OF D.M. JARZEN

### REFEREED RESEARCH PAPERS

- Graham, A. and **Jarzen, D.M.** 1969. Studies in Neotropical Paleobotany. I. The Oligocene Communities of Puerto Rico. *Annals of the Missouri Botanical Garden* 56: 308-357.
- Norris, G., **Jarzen, D.M.**, and Awai-Thorne, B.V. 1975. Evolution of the Cretaceous terrestrial palynoflora in Western Canada. In: W.G.E. Caldwell (ed.), *The Cretaceous System in the Western Interior of North America, The Geological Association of Canada Special Paper* No. 13: pp. 333-364.
- Jarzen, D.M.** and Norris, G. 1975. Evolutionary significance and botanical relationships of Cretaceous angiosperm pollen in the Western Canadian Interior. *Geoscience and Man*, 11: 47-60.
- Jarzen, D.M.** 1976. The affinities of *Marsypiletes cretacea* Robertson. *Pollen et Spores*, 18(3): 395-397.
- Jarzen, D.M.** 1976. Palynological research at the National Museum of Natural Sciences - Today and Tomorrow. *Syllogeus*, No. 10: 1-14.
- Jarzen, D.M.** 1977. *Aquilapollenites* and some Santalalean genera. A botanical comparison. *Grana*, 16: 29-39.
- Jarzen, D.M.** 1977. Angiosperm pollen as indicators of Cretaceous-Tertiary environments. In: K-TEC Group (Eds.) Cretaceous-Tertiary Extinctions and Possible Terrestrial and Extraterrestrial Causes. *Syllogeus*, No. 12: 39-49.
- Jarzen, D.M.**, Norris, G. and Rouse, G. 1977. Paleobotany and Palynology. In: The Geosciences in Canada 1976. A Status Report. *Geological Survey of Canada Paper*, 77-6: 52-53.
- Jarzen, D.M.** 1978. Some Maastrichtian palynomorphs and their phytogeographical and paleoecological implications. *Palynology*, 2: 29-38.
- Jarzen, D.M.** 1978. The terrestrial palynoflora from the Cretaceous-Tertiary transition, Alabama, U.S.A. *Pollen et Spores*, 20(4): 535-553.
- Jarzen, D.M.** 1979. Spore morphology of some Anthocerotaceae and the occurrence of *Phaeoceros* spores in the Cretaceous of North America. *Pollen et Spores*, 21(1-2): 211-231.
- Jarzen, D.M.** 1979. Zygosporangia of Zygnemataceae in the Paleocene of southern Saskatchewan (Canada). *Review of Palaeobotany and Palynology*, 28: 21-25.
- Lerbekmo, J.F., Singh, C., **Jarzen, D.M.** and Russell, D.A. 1979. The Cretaceous-Tertiary boundary in south-central Alberta--a revision based on additional dinosaurian and microfloral evidence. *Canadian Journal of Earth Science*, 16(9): 1866-1869.
- Jarzen, D.M.** 1980. The occurrence of *Gunnera* pollen in the fossil record. *Biotropica*, 12(2): 117-123.
- Jarzen, D.M.** 1981. A preliminary report on the palynomorphs recovered from Tendaguru Hill Tanzania). *Pollen et Spores*, 23(1): 149-163.
- Jarzen, D.M.** 1982. Palynology of Dinosaur Provincial Park (Campanian) Alberta. *Syllogeus*, No. 38: 1-69.
- Jarzen, D.M.** 1982. Angiosperm pollen from the Ravenscrag Formation (Paleocene) southern Saskatchewan, Canada. *Pollen et Spores*, 24(1): 119-155.
- Jarzen, D.M.** 1982. Angiosperm pollen: keys to the understanding of Cretaceous and Tertiary flowering plants. *Proceedings Third North American Paleontological Convention*, 1: 263-268.
- K-TEC II. 1982. Cretaceous-Tertiary Extinctions and Possible Terrestrial and Extraterrestrial Causes. Proceedings of the Workshop held in Ottawa, Canada, 19-20 May 1981. *Syllogeus*, 39: 1-151.
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- Nichols, D.J., **Jarzen, D.M.**, Orth, C.J. and Oliver, P.Q. 1986. Palynological and iridium anomalies at the Cretaceous-Tertiary boundary, South-Central Saskatchewan. *Science*, 231(4739): 714-717.
- Jarzen, D.M.** and Elsik, W.C. 1986. Fungal palynomorphs recovered from recent river deposits, Luangwa Valley, Zambia. *Palynology*, 10:35-60.
- Coe, M., Dilcher, D.L., Farlow, J., **Jarzen, D.M.** and Russell, D.A. 1987. Dinosaurs and land plants. In: Friis, E.M., Chaloner, W.G. and Crane, P.R. (eds.) *The Origins of Angiosperms and Their Biological Consequences*. Cambridge University Press, Cambridge. pp. 225-258.

- Pirozynski, K.A., **Jarzen, D.M.**, Carter, A. and Day, R.G. 1988. Palynology and Mycology of Organic Clay Balls Accompanying Mastodon Bones, New Brunswick, Canada. *Grana*, 27: 123-139.
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- Jarzen, D.M.** and Pocknall, D.T. 1993. Tertiary *Bluffopollis scabratus* (Couper) Pocknall & Mildenhall, 1984 and modern *Strasburgeria* pollen: a botanical comparison. *New Zealand Journal of Botany*, 31(2): 185-192.
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- Dettmann, M.E., **Jarzen, D.M.** and Jarzen, S.A. 1995. Feeding habits of the Mahogany glider: palynological evidence. *Palynology*, 19:137-142.
- Dettmann, M.E. and **Jarzen, D.M.** 1996. Pollen of proteaceous-type from latest Cretaceous sediments, southeast Australia. *Alcheringa*, 20:103-160.
- Jarzen, D.M.** and Nichols, D.J. 1996. Chapter 9: Pollen. In: Jansonius, J. and McGregor, D.C. (Ed.). *Palynology: principles and applications*, American Association of Stratigraphic Palynologists Foundation, Vol. 1: 263-293.
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- Dettmann, M.E. and **Jarzen, D.M.** 1998. The early history of the Proteaceae in Australia: the pollen record. *Australian Systematic Botany*, 11(3-4):401-438.
- Dettmann, M.E. and **Jarzen, D.M.** 1999. *Proteacidites aeimnestos* new name for *Proteacidites cooksoniae* Dettmann & Jarzen 1996 (fossil proteaceous pollen). *Alcheringa* 23(2):153.
- Dettmann, M.E. and **Jarzen, D.M.** 2000. Pollen of extant *Wollemia* (Wollemi pine) and comparisons with pollen of other extant and fossil Araucariaceae. In: M.M. Harley, C.M. Morton and S. Blackmore (Editors.) *Pollen and Spores: Morphology and Biology*, pp. 187-203. Royal Botanic Gardens, Kew..
- Nadkarni, N., Parker, G.G., Rinker, H.B. and **Jarzen, D.M.** 2004. The Nature of Forest Canopies, pp. 3-23. In: M. D. Lowman and H. B. Rinker (Editors). *Forest Canopies*, Second Edition. Academic/Elsevier, San Diego.
- Rinker, H.B. and **Jarzen, D.M.** 2004. The Reintegration of Wonder into the Emerging Science of Canopy Ecology, pp. 486-500. In: M. D. Lowman and H. B. Rinker (Editors). *Forest Canopies*, Second Edition. Academic/Elsevier, San Diego
- Wanntorp, L., Dettmann, M.E. and **Jarzen, D.M.** 2004. Tracking the Mesozoic distribution of *Gunnera*: comparison with the fossil pollen species *Tricolpites reticulatus* Cookson. *Review of Palaeobotany and Palynology* 132(2004):163-174.

- Hu, Shusheng, Dilcher, D., Schneider, H. and **Jarzen, D.M.** 2006. Eusporangiate ferns from the Dakota Formation, Minnesota, USA. *International Journal of Plant Sciences* 167(3):579-589.
- Jarzen, D.M.**, and Dilcher, D. 2006. Middle Eocene terrestrial palynomorphs from the Dolime Minerals and Gulf Hammock quarries, Florida. *Palynology*, 30: 89-110.
- Jarzen, D.M.** and Jarzen, S.A. 2006. Collecting pollen and spore samples from herbaria. *Palynology*, 30: 111-119.
- Jarzen, D.M.** and Dilcher, D.L. 2007. Report on a palynological assessment of Holocene mangrove vegetation at the American Memorial Park, Saipan, Northern Marianas. *In: Starmer, J. (ed.). Ecological Assessment of the Mangrove Habitat in the American Memorial Park, Saipan, Northern Mariana Islands. Pacific Marine Resources Institute Survey Report 2007-2*, pp. 41-63.
- Jarzen, D.M.**, Manchester, S.R., Retallack, G. and Jarzen, S.A. (Editors). 2007. Advances in Angiosperm Paleobotany and Paleoclimate Reconstruction—Contributions honouring David L. Dilcher and Jack A. Wolfe. *Courier Forschungsinstitut Senckenberg* 258: 1-189.
- Manchester, S.R., Retallack, G.R. and **Jarzen, D.M.** 2007. Preface. *In: Jarzen, D.M., Manchester, S.R., Retallack, G. and Jarzen, S.A. (Editors) 2007. Advances in Angiosperm Paleobotany and Paleoclimate Reconstruction—Contributions honouring David L. Dilcher and Jack A. Wolfe. Courier Forschungsinstitut Senckenberg* 258.
- Steadman, D.W., Franz, R., Morgan, G.S., Albury, N.A., Kakuk, B., Broad, K., Franz, S.E., Tinker, K., Pateman, M., Lott, T.A., **Jarzen, D.M.**, and Dilcher, D.L. 2007. Exceptionally well-preserved late Quaternary plant and vertebrate fossils from a blue hole on Abaco, The Bahamas. *Proceedings of the National Academy of Sciences* 104(50): 19897-19902.
- Hu, S., Dilcher, D.L., **Jarzen, D.M.** and Taylor, D.W. 2008. Early steps of angiosperm-pollinator coevolution. *Proceedings of the National Academy of Sciences* 105(1): 240-245.
- Elsik, W.C. and **Jarzen, D.M.** (in press). New species of the Neogene fungal form-genus *Mediaverrunites*. *Palynology* 31(2):xx-xx.
- Pocknall, D.T. and **Jarzen, D.M.** (in press). Pollen with viscin threads from the late Cretaceous Mito Juan formation, western Venezuela. *Palynology* 31(2):xx-xx.
- Hu, S., **Jarzen, D.M.** and Dilcher, D.L. (in press). New species of angiosperm pollen from the Cenomanian Dakota Formation, Minnesota, USA. *Palynology*.
- Jarzen, D.M.**, Corbett, S. and Manchester, S.R. (in prep). Palynology of the Alum Bluff, (Miocene) locality, Liberty County, Florida.
- Jarzen, D.M.** and Jarzen, S.A. (in prep). Microfossil analysis of a coprolite from a 4000 year old mummy from coastal northern Chile.
- Nelson, L.A. and **Jarzen, D.M.** (in prep.). Investigation of Post-Flight Solid Rocket Booster Foreign Material. *The Microscope*.

## REVIEWS, ABSTRACTS AND ARTICLES

- Norris, G., **Jarzen, D.M.** and Awai-Thorne, B.V. 1973. Evolution of the Cretaceous terrestrial palynoflora in western Canada. *Annual Meetings of the Arctic Symposium Cretaceous Colloquium*, Program and Abstracts, p. 41.
- Jarzen, D.M.** and Norris, G. 1973. Cretaceous pollen and spore succession in Western Canadian interior. *Abstracts 6th Annual Meeting of the American Association of Stratigraphic Palynologists*, p. 20.
- Jarzen, D.M.** 1974. The Living Fossil. *The Emerald Necklace*, 23(5): 4.
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- Jarzen, D.M.** and Whalen, G.J. 1978. Catalogue of the pollen spore exchange collection. National Museum of Natural Sciences. *Syllogeus*, No. 16: 1-29.
- Jarzen, D.M.** 1979. The Dawn Redwood. *Neotoma Series*, No. 9: 1-2.
- Jarzen, D.M.** 1980. The Spice of Life. *Neotoma Series*, No. 10.
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- Jarzen, D.M.** 1980. The morphology and Cretaceous occurrence of *Gunnera* pollen. *Abstracts, 5th International Palynological Congress*, p. 190.
- Jarzen, D.M.** 1980. Angiosperm pollen sequences across the Cretaceous/Tertiary boundary in the western interior of North America. *Abstracts, 5th International Palynological Congress*, p. 191.
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- Jarzen, D.M.** 1982. Canada's Oldest Fossils. *Neotoma Series*, No. 13.
- Jarzen, D.M.** 1982. Angiosperm pollen: keys to the understanding of Cretaceous and Tertiary flowering plants. Abstracts: North American Paleontological Convention II, Montreal, Quebec, *Journal of Paleontology*, 56(2-Supplement): 13.
- Jarzen, D.M.** 1982. Report of the IPC Representative to XXI General Assembly, International Union of Biological Sciences (IUBS), Ottawa, Ontario, Canada. August 22-27, 1982. *International Commission for Palynology Newsletter*, 5(2) December.
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- Greenhalgh, R., Humphreys, G.R., **Jarzen, D.M.**, Neish, G.A., Oliver, W.T. and Schiefer, H.B. 1984. Verification of the use of CBW agents--a critical review of the situation as seen in March 1984. *Report to the Arms Control and Disarmament Division, Department of External Affairs, Ottawa, Canada*, 1-15 pp.
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- Nelson, L.A. and **Jarzen, D.M.** 2008 (Abstract). Investigation of Post-Flight Solid Rocket Booster Foreign Material. Inter/Micro 2008 Conference, July 7-11, 2008, Chicago, Illinois.

## FIELD WORK EXPERIENCE

- 1967 **Mexico** (Nuevo Laredo and Coatzacoalcos); collection of lignite samples for pollen analysis.
- 1967 **Puerto Rico**; collection of lignite samples for pollen analysis. Material used for MA Thesis.
- 1967 **Panama Canal Zone**, collection of Tertiary outcrops for palynological analysis.
- 1970 **Florida Keys**, summer course, "Shallow Water Marine Environments," Dr. Donald Hattin, Indiana University, Bloomington, Indiana.
- 1971 **Alberta, Canada**; collection of rock material from Cretaceous outcrops as supplemental use for PhD Dissertation; with S.A. Jarzen.
- 1972 **Gaspé, P.Q.**, geological exploration and teaching field course, University of Toronto.
- 1973 **Colombia**, South America (Leticia and Bogotá) Botanical exploration of Amazon rainforest communities; paleontological examination of Late Cretaceous outcrops north of Bogotá.
- 1975 **Alabama**, Collection of paleomagnetic and palynological sediments (Cretaceous-Tertiary) for analysis.
- 1975 **Denmark** (Kolby Gard) collection of paleomagnetic and palynological samples of Maastrichtian-Danian age for analysis.
- 1975 **France** (Aix-en-Provence) geological reconnaissance of classic dinosaur egg locality; collection of sediment samples for palynological analysis.
- 1976 **New Zealand**; botanical survey of forest communities, collection of pollen samples from the type Waipara (Upper Cretaceous - Lower Tertiary).
- 1977 Africa (**Zambia and Cameroun**); botanical exploration and photography, examination of effects of large herbivores on the vegetation. National Museums of Canada.
- 1979 **New Caledonia**; botanical exploration and photography, collection of sediment samples for pollen analysis.
- 1980 **Cap Tourmente, Quebec**, National Museums of Canada ecotourism field trip co-leader April 19-20, 1980.
- 1987-88 **Australia**, 13-month sabbatical; Geological collection and botanical field excursions to several localities in southeast Queensland, Australia. Studies in paleoenvironment communities of Australasia with Dr. Mary E. Dettmann at the University of Queensland, Brisbane; with S.A. Jarzen.
- 1991 **Australia**, June 1 - July 30, 1991: Further collaborative research with Dr. M.E. Dettmann in the Department of Botany, The University of Queensland, Brisbane, Queensland. July 31, 1991 - September 9, 1991: Core and ditch cutting collections from Western Australia (Geological Survey and The University of Western Australia). Included a botanical field/photographic excursion in southwest Western Australia covering 5,000 km, and a field/photographic excursion to the wet tropics in northern Queensland near Cairns; with S.A. Jarzen.
- 1993 **Puerto Rico**. 22 February - 01 March, 1993. Photographic and botanical exploration of the Caribbean National Forest, El Yunque, north-eastern Puerto Rico; with S.A. Jarzen.
- 1994 **Southeastern United States**, July-August, 1994. Cedar Key, Lower Suwannee National Wildlife Refuge, Paines Prairie, Manatee Springs State Park (Florida); Coastal and brackish water environments of Georgia, South Carolina, North Carolina; with S.A. Jarzen.
- 1994 **Australia**, September 19 - October 24, 1994: Two manuscripts in press: completion of Proteaceae work, as well as Glider habitats detected by palynological study; field trip to northeast Queensland to Daintree National Park and Cape Tribulation, including rain forest photography; with S.A. Jarzen.
- 1996 **Everglades National Park**, Fairchild Tropical Gardens, the Florida Keys, with S.A. Jarzen.
- 2000 **Lake Tahoe**, NV; Sedona Valley, AZ, with J.E. Canright, Prof. Emeritus Arizona.
- 2002 **Myakka River State Park**, Florida Field work with H. B. Rinker, Selby Gardens, canopy ecology.

- 2003 **Everglades National Park**, Florida. With Clyde Butcher, photographic field trip through the glades.
- 2004 **North-eastern United States (NC, VA, PA, NY), Ontario, Canada and southern Ohio**, general photographic and botanical exploration of state and national parks, with S.A. Jarzen and T.D. Jarzen and his family.
- 2005 **Australia** Queensland, Gympie, Wollemi Pine nursery; Mount Cootha Botanic Garden, with M.E. Dettmann and S.A. Jarzen, December. (see electronic file "Pictures" and Powerpoint presentation.
- 2006 **Florida**, Big Bend region, north central Florida. An investigation of the biota of the Gulf Coast of Florida at and near the "big bend," with S.A. Jarzen.
- 2007 **Panama**, rainforest tour near city of Panama, with Iann Sanchez and Edwin Correa. September.
- 2007 **Everglades National Park**, Florida, with S.A. Jarzen, December 26-28.
- 2008 **Okefenokee National Park** with T.D. Jarzen and Family, S.A. Jarzen, March 21, 2008

## SEMINARS, CONFERENCES, PUBLIC LECTURES, MEDIA COVERAGE

- 2008 "Palynology in Archaeology" Class lecture in Environmental Archaeology, UF February 21, 2008.
- "The Spice of Life" Talk to the Church Guild, Holy Spirit Catholic Church, Avon Lake, Ohio. September.
- "Palynology and the Artist" Seminar Indiana University Southeast, New Albany, IN September.
- 2007 "The Sundance of Flowers" Selby Public Library, Sarasota, FL October 24, 2007.
- "Mystery of the Chilean Mummy" AASP 40<sup>th</sup>. Annual Meeting, Republic of Panama. (Talk presented by co-author V.M. Bryant, Jr.)
- "Hunting for Dinosaurs and Fossil Plants" Fort Hunt Elementary School, Alexandria, VA, May 23, 2007
- "Australia's Great Barrier Reef: a view from down under" Selby Public Library, Sarasota, FL March 21, 2007.
- 2006 "Azapa Valley Mummies: A story from Chile of three lost cultures." Selby Public Library, Sarasota, FL December 12, 2006.
- "Flowers of the Rarest" Holy Spirit Catholic Church, Women's Guild, May 18, 2006
- "The Oldest Land in Florida?" Everglades Geological Society, Ft. Meyers FL, March 21, 2006.
- 2005 "Conservation by Knowing What Was." New College, Sarasota, FL, November 2, 2005.
- "The Oldest Land in Florida: Pollen evidence" Paleobotany/Palynology Lab Meeting, Oct. 20, 2005.
- "Eocene Terrestrial Palynomorphs from the Dolime and Gulf Hammock Quarries, Florida. AASP 38<sup>th</sup>. Annual Meeting, St. Louis, MO, September 18-21, 2005.
- "Zambia: Africa's Final Paradise" Selby Public Library, January 27, 2005.
- 2004 "The Paleontologist, the Palynologist and the Artist: bringing the dinosaurs back to life. Geology Seminar Series, University of Florida, November 04, 2004.
- "Kangaroos Don't Swim, Green Turtles Do" FLMNH Summer Children's program" July 23, 2004.
- 2002 "Yellow Rain: People, Propaganda and Pollen" Tuesday in the Tropics, Selby Gardens, Dec. 2002.
- "Bringing dinosaurs back to life" Selby Gardens Associates Luncheon, November, 2002.
- "Ferns that outlived the Dinosaurs" Sarasota Fern Society, Sarasota, FL, October, 2002.
- "Paleobiodiversity" Ringling School of Art, Biodiversity Class, MSBG, Sarasota, FL, April 8, 2002.
- "Fiji - Land of the Sleeping Giant" Senior Discovery Series, FLMNH, Gainesville, FL February 4,
- 2001 "Botany, Palynology and Education in a Global Time/Space Perspective." Marie Selby Botanical Gardens, Sarasota, FL, December 17, 2001.
- "Palynological Applications. The Mahogany Glider and the Gondar Curtain." Geology Seminar Series, Georgia Southern University, Statesboro, GA. November 15, 2001.
- "Zambia: Africa's Last Kingdom of the Elephant." Larkmoor Elementary School, Lorain, OH May 10, 2001.
- "Palynology and the Ghost Glider." Marie Selby Botanical Gardens, Sarasota, FL, April 10, 2001.
- 2000 "Cretaceous Palynology Down Under." Florida Paleontological Society, Gainesville, FL November 4, 2000.
- "A Naturalist in Australia: a view of nature from the land down under" Senior Discovery Series, Florida Museum of Natural History, Gainesville, FL, October 2, 2000.
- "Australia's Great Barrier Reef" Larkmoor Elementary School, Lorain, OH, April 14, 2000.
- 1997 Judge, Alachua County Regional Science Fair, Gainesville, FL.

- 1996 "Palynology of the Mole Cricket," with P. Parkman and S.A. Jarzen, 9th International Palynological Congress, Houston, Texas, June 23-28, 1996.  
 "Microfossil analysis of Holocene mummies from coastal Northern Chile," with M. Poulin, 9th International palynological Congress, Houston, Texas, June 23-28, 1996.  
 Telephone Interview by David Cobb of the Toronto Star, May, 1996.  
Owl Magazine, Toronto, interview, on Azapa Valley Mummies, Chile, and Mahogany glider, Australia, May, 1996.  
 Interview for Discovery Channel, Toronto, on Azapa Valley Mummies, Chile, and Mahogany glider, Australia. Several televised showings during April, 1996.
- 1995 "Africa--the Bright Continent," Blossom Park Library, Gloucester, Ontario, January 3, 1996.
- 1994 "The cultural changes in pre-Incan Azapa Valley inhabitants: the palynological evidence," CMN Science Forum, No "Australia--A Land of Contrasts," Churchill Club (Senior Recreation Centre), Ottawa, June 30, 1995.  
 "Africa--the Bright Continent," Larkmoor Public School Grade 6, Lorain, Ohio, May 30.  
 Invited Judge at the 34th Ottawa Regional Science Fair.  
 "Flies, Crickets and Palynology," National Wildlife Research Centre, Environment Canada.  
 "Great Barrier Reef and the Pacific Islands," Public Lecture to Bethany Baptist Church, Ottawa  
 "Flies, Crickets and Palynology," CMN Seminar Series, November 21, 1994.  
 "Palynological Analysis of the Gondar (Ethiopia) Hanging," American Association of Stratigraphic Palynologists 27th Annual Meeting, College Station, Texas, November 2, 1994.  
 Seminar to the Botany Department, University of Queensland, Australia, "Mummies, Suicide, and the Spoils of War," October 6, 1994.  
 "Microfossil Finds from a 94-million Year Old Beach--East Central Saskatchewan," Ottawa Paleontological Club, June 8, 1994.  
 Judge for Ottawa Regional Science Fair, April 9-10, 1994.  
 "Plant Life at the Time of the Dinosaurs," Lecture to Volunteers of the CMN School Programme, February 14, 1994.
- 1993 "Plants of the Dinosaur Era - Myths and Legends", CMN Fall Lecture Series October 17, 1993.  
 "The Gondar Curtain: palynological analysis." Canadian Conservation Institute, Ottawa, September 23, 1993.  
 With D.A. Russell and S.L. Cumbaa, live call-in talk show on paleontology and paleobotany, "Did Dinosaurs Roar?" Maclean-Hunter TV August 31, 1993.  
 CBO-FM radio interview, responding to museum scientist cutbacks, August 26, 1993.  
 "In Touch With Nature" lecture to University students on the Research and Collections at the CMN, June 15, 1993.  
 T.R.A.S.H. CHRO TV Science Series "Pollen Study - Western Interior Sea," May 2, 1993.  
 Australian Broadcast Corporation (Robyn Williams) interviewed and aired across Australia, May, 1993.  
 Judge, Ottawa Regional Science Fair, April 3, 1993.
- 1992 "Cretaceous flora of Australia: A field guide." Ottawa Paleontology Club, November 18, 1992.  
 "Paleoecology of a Late Cretaceous nearshore marine environment, Pasquia Hills, Saskatchewan." with S. Cumbaa, Canadian Paleontology Conference II, Ottawa, September 25-27, 1992.  
 "Structure and floristics of Late Cretaceous forests in Southern High Latitudes," with M.E. Dettmann. 8th International Palynological Congress, Aix-en-Provence, France, September 6-12, 1994.  
 "Lower Tertiary palynomorphs from the Kings Park Formation, Western Australia--Preliminary Study," 8th International Palynological Congress, Aix-en-Provence, France, September 6-12, 1992.  
 "Natural History Photography," Algonquin College museology students, Ottawa, Ontario, March 18, 1992.
- 1991 "The Green Earth of Gondwana," Canadian Museum of Nature Explorer Series, December 4, 1991.  
 "Using PARIS Documentation as a Research Tool in Palynology," Society for the Preservation of Natural History Collections, May 6-11, 1991.  
 "Australia Down Under!" Gahanna Lincoln High School, Columbus, Ohio, November 1, 1991  
 "The Great Barrier Reef," Lakeview School, Nepean, Ontario, February 9, 1991.
- 1990 "Palynology: Introduction and Applications." Carleton University, Ottawa, February 26, 1990.
- 1989 "First Paleobotany Conference in Canada," Ottawa, Ontario. Organizer and Chair. October 5-6.
- 1988 "Australian paleopalynology - Cretaceous." 7 IPC, Brisbane, Qld. September 6-12, 1988.

- "Biotic Crisis at the End of the Mesozoic." Geological Society of Australia, Qld. Div. March 25, 1988.
- "Public Education in Geology." Department of Geology & Mineralogy, Univ. Qld., Brisbane, Australia, March 18, 1988.
- "Palynological studies of the Canadian Western Interior: A Review." Monash University, Melbourne, Australia, April, 1988.
- 1987 CBC "Nature of Things" Series on palynology.
- 1986 NHK Television, Japan, "The Miracle Planet," palynological aspects in the Late Cretaceous.  
PBS NOVA Series on Mesozoic extinctions and extra-terrestrial impacts.
- 1985 "The Tropics." Friends of the National Museum of Natural Sciences, May 13, 1985.
- 1984 "Palynology." Macoun Club Seniors, National Museum of Natural Sciences, November 16, 1984.  
Skyline Cablevision, Ottawa, on "Palynology," November 6, 1984.  
"Recent Fungi from Zambia." Sixth International Palynological Conference, Calgary, Alberta August 31, 1984.  
Radio CKO Interview on "Yellow Rain," February 14, 1984.  
Toronto Sun Interview on "Yellow Rain," February 12, 1984.  
CBC/CBOT Newsday Final TV Interview, February 12, 1984.  
Montreal Le Droit Interview on "Yellow Rain," February 16, 1984.  
"Yellow Rain ...People, Propaganda and Pollen." Royal Canadian Institute, Invited Lecturer, Toronto, Ontario, February 12, 1984.
- 1983 CBC Radio Interview, Yellow Rain, April 7, 1983.  
"Yellow Rain" Conference. Cambridge, Massachusetts, April 15-16, 1983.
- 1982 IUBS International Meetings, Ottawa, Ontario. For International Federation of Palynological Societies, August, 1982.  
"Angiosperm Pollen: Keys to the understanding of Cretaceous and Tertiary Flowering Plants." Invited paper NAPC III, August 7, 1982.
- 1981 "The Flower." Plus Program Students, Lorain, Ohio, April 23, 1981.  
CKCU Radio interview, on "Microfossils." May 8, 1981.  
IAAP Regional Representative, August, 1981.
- 1980 "The Cretaceous/Tertiary boundary in the Western Interior of Canada." Kent State University, Kent, Ohio, Seminar Series, October 2, 1980.  
"The tropical forests of New Caledonia, Zambia, the Amazon basin and New Zealand." Macoun Club Seniors, National Museum of Natural Sciences, Ottawa, April 11, 1980.  
"Angiosperm pollen sequences across the Cretaceous-Tertiary boundary in the western interior of North America." 5th International Palynological Conference, Cambridge, England, June, 1980.  
"The fossil history of *Gunnera* - the pollen record." 5th International Palynological Conference, Cambridge, England, June, 1980.
- 1979 Morphology and Classification of Fossil Fungal Spores Workshop. Kent State University, Kent, Ohio, May 8-12, 1979.  
Plants for Man (La végétation et la botanique servent l'humanité). Canadian Botanical Association, Carleton University, Ottawa, Chairman of Symposium II, "Landmark events in the evolution of plants" June 15-21, 1979.
- 1978 "What is palynology?" Macoun Field Club, National Museum of Natural Sciences, April 22, 1978.  
"Zambia - my experiences." Elementary School, Lorain, Ohio, May 19, 1978.  
"Palynology." Senior Citizens on Tour in Ottawa, May 6, 1978.
- 1977 "Palm pollen in the fossil record." Cornell University Botany students, Ithaca, New York.
- 1976 "Some Maastrichtian palynomorphs and their phytogeographical and paleoecological implications." American Association of Stratigraphic Palynologists, Halifax, Nova Scotia, October, 1976.  
"Cretaceous-Tertiary extinctions and possible terrestrial and extraterrestrial causes." Workshop, Ottawa, November 16-17, 1976.
- 1975 "Palynology" Public Lecture, National Museum of Natural Sciences, Ottawa.
- 1974 "Palynology of the Oligocene San Sebastian Formation of Puerto Rico." University of Toronto.  
"Palynological evidence for the evolution of Cretaceous terrestrial and marine floras, Western Canada." Eastern Canada Paleontology and Biostratigraphy Seminar, McGill University, Montreal, Quebec.
- 1973 "Pollen and Palynology: An Introduction." Association of Geology Graduate Students, Seminar Series, University of Toronto, Toronto, Ontario.

1970 "The Oligocene Communities of Puerto Rico." American Institute of Biological Sciences Meeting, Bloomington, Indiana.

### **STUDENTS (official and ad hoc)**

**McDonald, Juliet** MSc. Carlton University, Ottawa, ON 1992  
Thesis: **Palynology of the Triporate Pollen and Paleoecology of the Tertiary Fossil Forests of Eastern Axel Heiberg Island, N.W.T., Canada.** Carleton University Publisher Ottawa, 1992.  
Advisor.

Coe, Alexandra **BA, New College, Sarasota, FL 2004**  
Thesis: **The Ethnobotany of Southwest Florida from Paleo-Indian Times To The Present.**  
Division of Social Sciences, New College of Florida, Sarasota, FL, 2004. Advisor.

**Hu Shusheng** Ph.D. UF, Gainesville, FL 2006  
Thesis: **Palynomorphs and selected mesofossils from the Cretaceous Dakota Formation, Minnesota, USA.** University of Florida, Gainesville FL. 2005. Special Member of Committee.

**Dubbin, Adam** Volunteer, Gainesville, FL.2004-2005.  
Research topic: **Phytoliths recovered from Motul de San Jose, Guatemala.** Advisor.

**de La Para, Fillipe** MSc, UF Gainesville, 2006-  
Department of Geology. Thesis: Advisor.

| Also: Three semesters of ca. twenty students each for the Ringling School of Art and Design, Biodiversity Classes, taught at the Marie Selby Botanical Gardens, Sarasota FL. 2002-2003.