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DAVID M. JARZEN PhD

DAVID M. JARZEN is a 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 fossil floras recorded from the Tertiary of Florida and the Caribbean. His publications of scientific papers number over 240, 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, Australia and the USA. His work has been incorporated in several radio and television productions including CBC's "Nature of Things" with David Suzuki, 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 2005 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 7,200 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* and *Who's Who in the World*. His extra-curricular activities include music that enhances the soul, nature photography, satirical writing, botanical illustration, and all aspects of natural history. With his best friend and wife, Susan, he explores the natural history of the south-eastern United States at every opportunity.

CURRICULUM VITAE

JARZEN, David MacArthur

FLORIDA MUSEUM OF NATURAL HISTORY

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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

AASP—The Palynological Society: 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 (2006-2009)
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 (2005-2009)
St. John's College, University of Queensland, St. Lucia, QLD (Honorary Lifetime Member)
Syncreta Writer and Associate (2000-2010)
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

- 2008 Entered in *Who's Who in the World*.
 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 jarzenii* 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 Teteh Sudjaah Sulaeen, University of Queensland, Australia. [Tertiary fungal spore]
 2002 *Jarzenia reticulatus* Hongshan Wang; Hongshan Wang Ph.D. Thesis, University of Florida, Gainesville, Florida [Cretaceous plant macrofossils]
 2009 *Jarzenia* Wang & Dilcher, *Paleontographica* Abt.B, 281:143-177. [Cretaceous new genus in the Magnoliales.]
 2009 *Jarzenia kanbrasota* Wang & Dilcher, *Paleontographica* Abt.B, 281:143-177. [Cretaceous leaf fossil.]

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 the latter 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 and artistic skills. My photographs and artwork 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."* I summarize my approach to the day through a quote by E. B. White: *I arise in the morning torn between a desire to improve the world and a desire to enjoy the world. This makes it hard to plan the day.*

REFERENCES

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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.
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- Jarzen, D.M.** 1976. Palynological research at the National Museum of Natural Sciences - Today and Tomorrow. *Syllogeus*, No. 10: 1-14.
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- Jarzen, D.M.** 1979. Zygosporangia of Zygnemataceae in the Paleocene of southern Saskatchewan (Canada). *Review of Palaeobotany and Palynology*, 28: 21-25.
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- Jarzen, D.M.** and Jarzen, S.A. 2006. Collecting pollen and spore samples from herbaria. *Palynology*, 30: 111-119.
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- 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.
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- 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.
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- Hu, S., **Jarzen, D.M.** and Dilcher, D.L. 2008. New species of angiosperm pollen from the Cenomanian Dakota Formation, Minnesota, USA. *Palynology*, 32: 17-26.
- Jarzen, D.M.** and Hogsette, J.A. 2008. Pollen recovered from the exoskeleton of Stable Flies *Stomoxys calcitrans* (Linnaeus 1758). *Palynology* 32: 77-81.
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- Jarzen, D.M.**, Corbett, S. and Manchester, S.R. (in prep). Palynology of the Alum Bluff, (Miocene) locality, Liberty County, Florida. *Palynology*.
- Jarzen, D.M.** and Klug, C. (in prep.) Palynology of the Oldsmar Formation (Lower Eocene), Pine Island, Florida. *Palynology*.
- Wyatt, A., **Jarzen, D.M.** and Emery, K.F. (in prep). Preliminary investigations in macro and microbotany at Motul de San Jose. *In: Foias, A.E. and Emery, K.F. (eds.) Politics, History, and Economy at the Classic Maya Polity of Motul de San Jose, Guatemala.* University Press of Florida.
- Miller, C.J. and **Jarzen, D.M.** (in prep.) A study of the dynamics of a *Mauritia* swamp through time. *Palynology*.
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REVIEWS, ABSTRACTS AND POPULAR ARTICLES

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- Jarzen, D.M.** 2007. (Book Review). The Air Spora: A manual for catching and identifying airborne biological particles. Maureen E. Lacey and Jonathan S. West, Springer, Dordrecht, The Netherlands. *American Association of Stratigraphic Palynologists Newsletter*, 40(2):18-20.
- Jarzen, D.M.** 2007. Florida Museum of Natural History in Gainesville Paleobotany and Palynology. *American Association of Stratigraphic Palynologists Newsletter*, 40(2):30-31.

- Jarzen, D.M.** 2007. Transfer of the Pierce Type Collection. *American Association of Stratigraphic Palynologists Newsletter*, 40(2):32.
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- Jarzen, D.M.** and Bryant, V.M. 2007 (Abstract). The Mystery of the Chilean Mummy. *American Association of Stratigraphic Palynologists* 40th Annual Meeting, Panama City, Panama, September 11, 2007, p. 37.
- Jarzen, D.M.** 2007. (Review). Key to the Pollen of the Bahamas. *American Association of Stratigraphic Palynologists Newsletter* 40(4): 14-15.
- Jarzen, D.M.** 2007. Update on an Incident in Panama. *American Association of Stratigraphic Palynologists Newsletter* 40(4): 28-29.
- Jarzen, D.M.** 2008. *Aquilapollenites*: Carved in Stone! Reprinted with permission from the Canadian Association of Palynologists Newsletter, May, 1993. *American Association of Stratigraphic Palynologists Newsletter* 41(1): 19-20.
- Jarzen, D.M.** 2008. Dr. James Edward Canright (1920—2008). *American Association of Stratigraphic Palynologists Newsletter* 41(2): 33-35.
- Jarzen, D.M.** 2008. (Book Review). Career Opportunities in Forensic Science. Echaore-McDavid, S. and McDavid, R.A. (eds.) Ferguson, New York. *American Association of Stratigraphic Palynologists Newsletter* 41(2): 18-19.
- 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.
- Jarzen, D.M.** 2008. James Edward Canright (1920—2008). *Plant Science Bulletin*, Botanical Society of America 54(2):63-65.
- Jarzen, D.M.** and Nelson, L.A. 2008. Palynology and the US Space Shuttle Program. *AASP The Palynological Society Newsletter* 41(3):6-8.
- Jarzen, D.M.** 2008. (Book Review). First Floridians and Last Mastodons: The Page-Ladson Site in the Aucilla River. S. David Webb (ed.) Springer, The Netherlands. *AASP The Palynological Society Newsletter* 41(3):14-16.
- Jarzen, D.M.** and Manchester, S.R. 2009. (Book Review). Plants and the K-T Boundary. D.J. Nichols and K.R. Johnson, Cambridge University Press. *AASP The Palynological Society Newsletter* 42(1): 22-25.
- Jarzen, D.M.** and Hogsette, J.A. 2009. (Abstract). Pollen as a tool for tracking stable flies. Florida Academy of Sciences 73rd. Annual Meeting, St. Leo University, St. Leo FL. *Florida Scientist* 72 (Supplement 1): 29.
- Jarzen, D.M.** and Hogsette, J. 2009. Medical Front: "A Novel Approach to Fly Control." *Equus Magazine*, Issue 381, June, 2009, p. 18.
- Jarzen, D.M.** 2009. (Book Review). Atlas of Pollen and Spores of the Polish Neogene, Volume 3 – Angiosperms (1). Leon Stuchlik (editor). W. Szafer Institute of Botany, Polish Academy of Sciences, Kraków. *AASP The Palynological Society Newsletter* 42(2): 18-19.
- Jarzen, D.M.** 2009. Palynological preparation and analysis of the Delta Site (Jasper County, South Carolina) sample. Report on file, Delta site Archaeological Collection (Accession No. 2081). Antonio J. Waring, Jr. Archaeological Laboratory, University of West Georgia, Carrollton.
- Jarzen, D.M.** and Hogsette, J.. 2009. Pollen can predict stable fly origins. *AASP The Palynological Society Newsletter* 42(3): 20.
- Jarzen, D.M.** and Dilcher, D.L. 2009. Co-evolution between flowering plants and insect pollinators. IN: McGraw-Hill Yearbook of Science & Technology. McGraw-Hill, New York.
- Jarzen, D.M.** 2009. (Book Review). Genera Palmarum. Dransfield et al.. Kew Gardens, Surrey, UK, *AASP The Palynological Society Newsletter* 42(4):

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.
 2008 **Florida Keys, Florida** with S.A. Jarzen. Photographic expedition. December, 2008.
 2099 **Kentucky, Tennessee, and West Virginia.** Autumnal hardwood tree color changes., with S.A.J.
 2009 **St. Catherines Island, GA,** August and November with I. Quitmyer and S.A. Jarzen, to collect extant shellfish for diatom study.

SEMINARS, CONFERENCES, PUBLIC LECTURES, MEDIA COVERAGE

- 2009 **"Applications in Palynology ."** Series of two lectures to the AMNH students at St. Cathrines Island, GA, November 13, 14, 2009.
"Pollen and Pollination" FLMNH Butterfly Fest 2009, October 24th. (invited presentation).
"Palynology and the Artist: One way to make reconstructions of past environments." AASP 42nd. Annual Meeting, Kingsport, TN (invited lecture).
"Ghost Glider and NASA work FLMNH." New College, September 21, 2009.
"Palynology and the Stable Fly." Florida Academy of Sciences, ST. Leo University, St. Leo Fl. March 20, 2009.
- 2008 **"Palynology and the Space Shuttle Program."** Talk to FLMNH Associates Board, Nov. 17.
"Looking at the Past Through the Eyes of Scientists and Artists." Weedon Island and Brooker Creek, Pinellas County, FL October 24-25, 2008.
"Palynology and the Artist" Seminar: Indiana University Southeast, New Albany, IN September.
"The Spices of Life" Talk to the Church Guild, Holy Spirit Catholic Church, Avon Lake, OH.
"Palynology in Archaeology" Class lecture in Environmental Archaeology, UF Feb. 21, 2008
- 2007 **"The Sundance of Flowers"** Selby Public Library, Sarasota, FL October 24, 2007.
"Mystery of the Chilean Mummy" AASP 40th. 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, Oct. 20, 2005.
"Eocene Terrestrial Palynomorphs from the Dolime and Gulf Hammock Quarries, Florida." AASP 38th. 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" Jul 23, 2004.
- 2002 **"Yellow Rain: People, Propaganda and Pollen"** Tuesday in the Tropics, Selby Gardens, Dec.
"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, Nov.
 "Australia--A Land of Contrasts," Churchill Club (Senior Recreation Centre), Ottawa, June 30,
 "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.
 "Mummies, Suicide, and the Spoils of War," October 6, 1994. Seminar to the Botany Department, University of Queensland, Australia.
 "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, Sept 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, Sept. 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. Mar. 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,
"**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.

GRADUATE STUDENTS

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

Department of Geology. Dissertation: **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, Felipe MSc, UF Gainesville, 2006- 2009.

Department of Geology. Thesis: **Finding the Cretaceous—Paleocene boundary event and its consequences on tropical vegetation.**

Mejia Velasquez, Paula Ph.D UF, Gainesville, FL 2010.

Department of Botany. Dissertation: