

ALLAN C. ASHWORTH

North Dakota State University Distinguished Professor Emeritus
Past President of the International Union for Quaternary Research

CONTACT INFORMATION

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CURRENT RESEARCH INTERESTS

1. Neotoma Paleocology Database <http://www.neotomadb.org/>. Ashworth is one of the five original co-PI's. The database is a fully-searchable multiproxy database. Ashworth is responsible for the North American fossil insect data. Most of the North American fossil insect data from geological and archeological sites has been uploaded. The focus is now on incorporating ecological data for the purpose of paleoenvironmental analysis. Discussions are ongoing on merging the European fossil beetle data in SEAD with that of Neotoma.
2. The last glacial maximum on the Olympic Peninsula, Washington State, based on fossil insect assemblages from the Kalaloch and South Fork of the Hoh River sites. The research is in collaboration with Glenn Thackray, Idaho State University and Dan Gavin, University of Oregon.
2. The full-glacial insect fauna from the Chilean Lake Region. Coleoptera taxa from 6 sites are being analyzed for changes in faunal composition during the interval from 28,000 to 12,000 cal yr B.P. The fauna has no analogue and is a combination of taxa from higher elevations and those with broad ecological amplitudes. The fauna is especially sensitive to major climate change.
4. The paleoecology of the Six-Mile Creek site, mid-Wisconsinan age, from the Finger Lakes Region, New York State. The project is in cooperation with Dan Karig, Cornell University, and Dorothy Peteet, Lamont Doherty Earth Observatory and Sangita Shtrestha, NDSU.
5. The Paleocology of Miocene-aged sites from Antarctica. Ashworth is the primary paleoecologist. The sites, in the Transantarctic Mountains from 77° and 85° lat. S, have striking parallels with Quaternary-aged sites in the northern hemisphere. Many taxa, now cosmopolitan, probably evolved their adaptations to cold temperatures in Antarctica millions of years before the climate cooled during the Quaternary in the northern hemisphere.

EDUCATION

Ph.D. in Geology, 1969, University of Birmingham, England
B.Sc. in Geology, 1966, University of Birmingham, England

POSITIONS HELD

University Distinguished Professor Emeritus, NDSU, 2014-
Chair, Department of Geosciences, NDSU, 1982-2004
Director, Population Change and Genetic Diversity Focus Group, NDSU/UND, 1992-1995
Dean, College of Science and Mathematics, NDSU, 1990-91 (interim)
Distinguished Visiting Professor, Quaternary Research Center, University of Washington, 1991

Visiting Research Scientist, Ohio State University, Byrd Polar Research Center, 1989
Visiting Fellow, Clare Hall, Cambridge University, England, 1988
Professor, Department of Geosciences, NDSU, 1979 to 2014
Assistant-Associate Professor, Department of Geosciences, NDSU, 1972-1979
Assistant Professor, University of Waterloo, Ontario, 1971-1972
Assistant Professor, University of Guelph, Ontario, 1972
Visiting Assistant Professor, NDSU, 1969-1971.

PANEL/BOARD MEMBERSHIP

Past- President, International Union for Quaternary Research (INQUA)

President, International Union for Quaternary Research (INQUA)

<http://www.inqua.org>

Member, Board on International Scientific Organizations (BISO), National Academies of Sciences

<http://sites.nationalacademies.org/PGA/biso/index.htm>

Ex Officio Member, United States National Committee for INQUA (USNC INQUA)

<http://sites.nationalacademies.org/PGA/biso/INQUA/index.htm>

Vice-Chair, International Council of Science GeoUnions (ICSU GeoUnions)

<http://www.icsu-geounions.org>

Chair, International Partnerships, Neotoma Leadership Council

https://docs.google.com/document/d/1k2BvLfkXhi80N_QLyN9fPFRYZJ5E-dJO4IPaXee9jil/edit-heading=h.12s5ihgzgf85

Vice-President, International Union for Quaternary Research, 2007-2011

<<http://www.inqua.tcd.ie/>>

Chair, U. S. National Committee for the International Union of Quaternary Research (USNC INQUA), 2003-2007, member since 1997

< <http://sites.nationalacademies.org/PGA/biso/INQUA/index.htm>

Member, Mid Miocene – Pliocene sub-committee, SCAR Antarctic Climatic Evolution, 2005

Board President, F-M River Keepers, 2004-2006

Member, INQUA Commission for Palaeoecology and Human Evolution, 2003 - 2007

International Editorial Advisory Board, *Journal of Quaternary Science*, Wiley. 1989-2008

NDSU Coordinator, NSF Graduate Research Fellowships, 1995 - 2004

Globenet member, Global network for monitoring landscape change

HONORS & AWARDS

2019 GSA Quaternary Geology and Geomorphology Division Distinguished Career Award

2007 NDSU University Distinguished Professor -

2007 New Zealand Geographic Board names Ashworth Glacier

2004 James A. Meier Senior Professor 2004-2013

1997 North Dakota State University Faculty Lectureship Award

1997 NDSU Mortar Board, Preferred Professor

1989 Fargo Chamber of Commerce and North Dakota State University Distinguished Professor Award

1989 NDSU Sigma Xi Outstanding Research Award for 1989 (shared with D. P. Schwert)

1988 Visiting Fellowship, Clare Hall, Cambridge, England

1986 "Outstanding paper for 1985" *Coleopterists Bulletin*: Fossil evidence for late Holocene faunal stability in southern Minnesota (Coleoptera): co-authored with D. P. Schwert

1974 Mortar Board, NDSU, "Creative Educator of the Year".

1966 Panton Prize (Department of Geosciences, University of Birmingham, England).

GRANTS

- 2016 NSF EAR 1550717 – Collaborative Research: Neotoma Paleoecology database community-led cyberinfrastructure for global change research 5/23/2016 – 5/1/2020, \$69, 832
- 2010 NSF ANT 0947821. Neogene paleoecology of the Beardmore Glacier Region, PI, 2 yr, \$100,197.00 (terminated 2016).
- 2010 NSF EAR 0948652. Geoinformatics: Collaborative Research: Neotoma Paleoecology Database, Pliocene-Quaternary, co-PI, 3 yr, \$1,606,051.00 (terminated 2016).
- 2010 NSF EAR 0963486. Renovation for Climate Change & Environmental Quality Laboratory at North Dakota State University, co-PI, 1 yr, \$659,103.00.
- 2008 NSF ANT-0739693. Collaborative Research: Integrating Geomorphological and Paleocological Studies to Reconstruct Neogene Environments of the Transantarctic Mountains", (Ashworth, PI; 4 yrs, \$442,620.00 (terminated 2016)
- 2006 NSF EAR-0622349. Geoinformatics: Collaborative Research – Late Neogene Terrestrial Ecosystem Database, CO-pl, 3 yr, \$435,010.
- 2006 ND EPSCoR. Ph.D. Dissertation Improvement grant for Michael Newbrey, PI, 1 yr, \$15,000
- 2005 NSF ANT-0440761. Collaborative paleoenvironmental research in the Dry Valleys", PI, 2 yrs, \$46,373.
- 2003 NSF ANT-0230696. Terrestrial paleoecology and sedimentary environment of the Meyer Desert Formation, Beardmore Glacier, Transantarctic Mountains.", PI, 3 yrs, \$220,898
- 2003 NDEPSCoR. Faculty start-up grant for K. Lepper, PI, 1 yr, \$45,000
- 2000 NDEPSCoR. Faculty start-up grant for R. Arthur", 1yr, \$33,000
- 1997 NSF OPP. The Paleoenvironment of the Meyer Desert Formation, Transantarctic Mountains, PI, 3 ys, \$103, 471
- 1995 NAS Travel Grant to attend INQUA Congress in Berlin, Germany
- 1994 EPA EPSCoR, Monitoring global change through insect response, co-PI, 2yr, \$40,000.
- 1992 ND EPSCoR. Population change and genetic diversity focus group, PI, 3yrs, \$1,350,000,
- 1991 NAS Travel Grant to attend INQUA in China
- 1989 ASEND/EPSCoR REU, PI, 10,000
- 1987 NSF Climate Dynamics. Late-glacial and Holocene Climate of the Andes in the Mid-Latitudes of South America", PI.
- 1985 NSF Earth Sciences. PI. Collaborative research on late Quaternary environmental changes in the Chilean Channels of South America, PI
- 1985 NSF (U. of Kentucky). Monte Verde, Chile, fossil insect analysis, co-PI.
- 1983 South African Quaternary Association. Travel Award.
- 1983 NSF Earth Sciences (Supplement to 1982 award).
- 1982 NSF Earth Sciences, Co-PI.
- 1980 NSF Ecology Program, PI.
- 1979 NSF Climate Dynamics, PI.
- 1978 NSF Climate Dynamics, PI.
- 1977 NSF Climate Dynamics, co-PI.
- 1977 NSF International Conference Travel Award.
- 1977 MN Geol. Survey, Grant-In-Aid of Research.
- 1977 NSF Ecology Program, PI.
- 1974 NSF Systematics Program, PI.
- 1973 NSF Institutional (NDSU - research support).

- 1972 NRC, Canada, PI.
 1971 University of Waterloo, Ontario, (research support).
 1970 North Dakota Institute of Regional Studies (research support).
 1966 NERC Graduate Scholarship, U.K.

REFEREED PUBLICATIONS: Journals, Proceedings, Book Chapters

- Pinseel, E., Van de Vijver, B., Wolfe, A.P., Harper, M., Antoniadou, D., Ashworth, A.C., Ector, L., Lewis, A.R., Perren, B., Hodgson, D.A., Sabbe, K., Verleyen, E., Vyverman, W., 2021, Extinction of austral diatoms in response to large-scale climate dynamics in Antarctica. *Science Advances*, 7, eab3233.
- Ashworth, A.C., Thackray, G.D., Gavin, D.G., 2021, Climate of the Last Glacial Maximum on the western Olympic Peninsula based on insect paleoecology, palynology and glacial geology. In (Waitt, R.B., Thackray, G.D., Gillespie, A.R., eds.), *Untangling the Quaternary Period- a legacy of Stephen C. Porter*, pp. 101-119, Geological Society of America Special Paper 548, <https://lccn.loc.gov/2021004026>.
- Williams, J.W., Grimm, E.C., Blois, J.L., Charles, D.F., Davis, E.B., Goring, S.J., Graham, R.W., Smith, A.J., Anderson, M., Arroyo-Cabral, J., Ashworth, A.C., Betancourt, J.L., Bills, B.W., Booth, R.K., Buckland, P.I., Curry, B.B., Giesecke, T., Jackson, S.T., Latorre, C., Nichols, J., Purdum, T., Roth, R.E., Stryker, M., Takahara, H., 2018, The Neotoma Paleocology Database, a multiproxy, international, community-curated data resource. *Quaternary Research*, 89: 156–177. doi:10.1017/qua.2017.105.
- Campodonico, J.F., Faúndez, E.I., Ashworth, A.C., 2017, *Mapuchea pinoi* sp. nov. (Hemiptera: Membracoidea: Myerslopiidae): especie fósil de un lecho de turba de Monteverde, región de Los Lagos, Chile. *Anales del Instituto de la Patagonia* 45(1):49-52. DOI10.4067/S0718-86X2017000100049.
- Ashworth, A.C. and Erwin, T.E. (2016) *Antarctotrechus balli* sp. n. (Carabidae:Trechini): the first ground beetle from Antarctica. *ZooKeys* 635:109-122. <https://doi.org/10.3897/zookeys.635.1035>.
- Lewis, A.R. and Ashworth, A.C. (2016) An early to middle Miocene record of insect life and landscape evolution from the Friis Hills, Antarctica. *Geological Society of America Bulletin*, 128 (5-6):719-738, doi:10.1130/B31319.
- Cantrill, D.J., Ashworth, A.C. and Lewis, A.R. (2016) Megaspores of an early Miocene aquatic lycopod (Isoetales) from Antarctica. *Grana* (online): 1-12. <http://dx.doi.org/10.1080/00173134.2016.1144784>
- Valletta, R., Willenbring, J., Lewis, A., Ashworth, A. and Caffee, M. (2015) Extreme decay of meteoric beryllium-10 as a proxy for persistent aridity. *Scientific Reports (Nature)* 5, 17813; doi: 10.1038/srep17813.
- Faúndez, E.I. and Ashworth, A.C. Sobre la familia Gelastocoridae (Hemiptera: Heteroptera) en el extremo sur de Chile. *Anales del Instituto de la Patagonia* 43(2):69-74.
- Ashworth, A.C. and Nelson, R.E., 2014, The paleoenvironment of the Olympia beds based on fossil beetles from Discovery Park, Seattle, Washington, U.S.A. *Quaternary International* 341:243-254.
- Faúndez, E. I., Carvajal, M.A., and Ashworth, A.C.. 2014, Una nueva especie de *Idiostolus* Berg, 1883 (Hemiptera: Heteroptera: Idiostoloidea: Idiostolidae). *Anales del Instituto de la Patagonia*, 42(1): 71-75.
- Ashworth, A.C., 2013, Beetle records: Late Pleistocene of South America. In Elias, S. A. (editor), *Encyclopedia of Quaternary Science*, second edition. Amsterdam: Elsevier, 235-243.
- Francis, J.E., Ashworth, A., Cantrill, D.J., Crame, J.A., Howe, J., Stephens, R., Tosolini, A.-M., and Thorn, V., 2008, 100 million years of Antarctic climate evolution: evidence from fossil plants. In (Cooper, A.K., Barrett, P.J., Stagg, H., Storey, B., Stump, E., and Wise, W., eds.), *Antarctica: A Keystone In A Changing World*, pp. 19- 27, Proceedings of the 10th International Symposium on Antarctic Earth Sciences, Washington, DC, The National

- Academies Press.
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- Lewis, A.R., Marchant, D.R., Ashworth, A.C., Hedenäs, L., Hemming, S.R., Johnson, J.V., Leng, M.L., Machlus, M.L., Newton, A.E., Raine, J.I., Willenbring, J.K., Williams, M., and Wolfe, A.P., 2008, Mid-Miocene Cooling and the Extinction of Tundra in Continental Antarctica, *PNAS* 105 (31): 10676–10680.
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- Newbrey, M.G., Wilson, M.V.H. and Ashworth, A.C., 2008, Climate change and evolution of growth in Late Cretaceous to Recent North American Esociformes. In (G. Arratia, H.-P. Schultze and M. V. H. Wilson, eds.) *Mesozoic Fishes 4 – Homology and Phylogeny*, pp. 311-350, Verlag Dr. Friedrich Pfeil, München, Germany
- Williams, M., Siveter, D.J., Ashworth, A.C., Wilby, P.R., Horne, D.J., Lewis, A.R., and Marchant, D.R., 2008, Exceptionally preserved lacustrine ostracods from the Middle Miocene of Antarctica: implications for high-latitude palaeoenvironment at 77°south. *Proc. R. Soc. B*. doi:10.1098/rspb.2008.0396.
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- Francis, J.E., Haywood, A., Ashworth, A.C., and Valdes, J., 2007, Tundra environments in the Neogene Sirius Group, Antarctica: evidence from the geological record and coupled atmosphere–vegetation models. *Journal Geological Society of London*, 164, 1-6.
- Lepper, K. and Ashworth, A., 2007, A Dynamic Record of Late-Holocene Environmental Change Recorded in Banded Colluvium from the Northern Great Plains: Preliminary Data and Implications for Long-Term Drought Cycles since the Late Pleistocene. *Current Research in the Pleistocene*, 24, 201-204.
- Lewis, A.R., Marchant, D.R. Ashworth, A.C. Hemming, S.R. and Machlus, M.L., 2007, Major middle Miocene global climate change: Evidence from East Antarctica and the Transantarctic Mountains. *Bulletin Geological Society of America*, 119, 1149-1461.
- Newbrey, M.G., Wilson, M.V.H., and Ashworth, A.C., 2007, Centrum growth patterns provide evidence for two small taxa of Hiodontidae in the Cretaceous Dinosaur Park Formation. *Canadian Journal of Earth Sciences*, 44, 721-732.
- Ashworth, A.C., 2006, Quaternary Fossil Beetle Assemblages from South America. In (Elias, S.A., Ed), *Encyclopedia of Quaternary Science*, pp. 215-228, Elsevier, Amsterdam.
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- Ashworth, A.C. and Cantrill, D.J., 2004, Neogene vegetation of the Meyer Desert Formation (Sirius Group) Transantarctic Mountains, Antarctica, *Palaeogeography, Palaeoclimatology,*

- Palaeoecology*, 213, 65-82.
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- Newbrey, M.G. and Ashworth, A.C., 2004, A fossil record of colonization and response of lacustrine fish populations to climate change. *Canadian Journal of Fisheries and Aquatic Sciences*, 61, 1807-1816.
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- Ashworth, A. C. and Preece, R. C., 2003. The first freshwater molluscs from Antarctica. *Journal of Molluscan Studies*, 69, 89-92.
- Ashworth, A.C. and Kuschel, G., 2003. Fossil weevils (Coleoptera: Curculionidae) from latitude 85° S Antarctica. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 191, 191-202.
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- Ashworth, A. C., 2001, Perspectives on Quaternary Beetles and Climate Change. In (L. Gerhard, W. Harrison, and B. Hanson, eds.), *Geological Perspectives of Global Climate Change*. American Association of Petroleum Geologists Studies in Geology 47, pp. 153-168.
- Whitlock, C., V. Markgraf, P. Bartlein, and A. Ashworth., 2001, The Mid-Latitudes of North and South America during the Last Glacial Maximum and early Holocene - Similar Paleoclimatic Sequences Despite Differing Large-Scale Controls. In: (V. Markgraf, ed.), *Interhemispheric Climate Linkages, Present and Past Interhemispheric Climate Linkages in the Americas and their Societal Effects*, pp. 391- 416 . Academic Press.
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- Niemelä, J., Kotze, J., Ashworth, A., Brandmayr, P., Desender, K., New, T., Penev, L., Samways, M. and Spence, J., 2000, The search for common anthropogenic impacts on biodiversity: a global network. *Journal of Insect Conservation*, 4, 3-9.
- Reiss, R.A., Ashworth, A.C. and Schwert, D.P., 1999, Molecular genetic evidence for the post-Pleistocene divergence of populations of the arctic-alpine ground beetle *Amara alpina* (Paykull) (Coleoptera: Carabidae), *Journal of Biogeography* 26(4), 785-794.
- Ashworth, A.C. and Willenbring, J.K., 1998, Fossil beetles and climate change at the Sixmile Creek site, Ithaca, New York, *American Paleontologist* 6: 2-3.
- Ashworth, A.C., Buckland, P.C., and Sadler, J.P. (eds.), 1997, Studies in Quaternary Entomology - An Inordinate Fondness for Insects. *Quaternary Proceedings* 5, John Wiley & Sons, Chichester, UK.
- Ashworth, A.C., Harwood, D.M., Webb, P.N., and Mabin, M.C.G., 1997, A weevil from the heart of Antarctica. In (A.C. Ashworth, P. Buckland, J. Sadler, Eds.) *Studies in Quaternary Entomology*, Quaternary Proceedings No. 5, pp. 15-21, John Wiley & Sons, Chichester, UK.
- Cong, S. and Ashworth, A.C., 1997, A potential application of correspondence analysis of fossil beetle assemblages in palaeoenvironmental interpretation: the Titusville example. In (A.C. Ashworth, P. Buckland, J. Sadler, eds.) *Studies in Quaternary Entomology*, Quaternary Proceedings No. 5, pp. 79-82, John Wiley & Sons, Chichester, UK.

- Ashworth, A.C., 1996, The response of arctic Carabidae (Coleoptera) to climate change based on the fossil record of the Quaternary Period. *Annales Zoologici Fennici* 33: 125-131.
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- Cong, S. and Ashworth, A.C., 1996, Palaeoenvironmental interpretation of middle and late Wisconsinan fossil coleopteran assemblages from western Olympic Peninsula, Washington. *Journal of Quaternary Science* 11(5): 345-356.
- Cong, S., Ashworth, A.C., Schwert, D.P., and Totten, S.M., 1996, Fossil beetle evidence for a short warm interval near 40,000 yr B.P. at Titusville, Pennsylvania, *Quaternary Research* 45: 216-225.
- Webb, P-N., Harwood, D.M., Hambrey, M.J., Krissek, L.A., Ashworth, A.C., Mabin, M.C.G., and Fabel, F.G., 1996, The Late Cenozoic Sirius Group of the upper Shackleton Glacier region, Transantarctic Mountains, *Antarctic Journal of the United States*, 31(2):12-13.
- Webb, P-N., Harwood, D.M., Hambrey, M.J., Krissek, L.A., Ashworth, A.C., and Mabin, M.C.G., 1996, Stratigraphy of the Sirius Group, upper Shackleton Glacier region, Transantarctic Mountains. *Antarctic Journal of the United States*, 31(2): 16-17.
- Webb, P-N., Harwood, D.M., Hambrey, M.J., Krissek, L.A., Ashworth, A.C., and Mabin, M.C.G., 1996, The sub-Sirius Group Erosion Surface at Roberts Massif, upper Shackleton Glacier region, Transantarctic Mountains, *Antarctic Journal of the United States*, 31(2): 14-15.
- Woodman, N., Schwert, D.P., Frest, T.J., and Ashworth, A.C., 1996, Paleoeecology of subarctic faunal assemblages from the Woodfordian age (Pleistocene:Wisconsinan) Elkader site, northeastern Iowa, *Occasional Papers of the Natural History Museum, University of Kansas*, 178: 1-33.
- Reiss, R.A., Schwert, D.P. and Ashworth, A.C., 1995, Field preservation of Coleoptera for molecular genetic analysis, *Environmental Entomology* 24: 716-719.
- Shurr, G.W., Ashworth, A.C., Burke, R.B., and Diehl, P.E., 1995, Tectonic controls on the Lodgepole play in northern Stark County, North Dakota - a perspective from surface and subsurface studies, *Proceedings of the Seventh Williston Basin Symposium: Montana Geological Society Guidebook* (Hunter, L.D.V., ed.,) p. 203-208.
- Buckland, P.C., Ashworth, A.C., and Schwert, D.P., 1995, By-passing Ellis Island: insect immigration to North America. In (Butlin, R. A. And Roberts, N., Eds.) *Ecological Relations in Historical Time*. pp 226-244. *The Institute of British Geographers, Special Publication series 32*, Blackwell Publishers Inc.
- Ashworth, A.C., 1994, Données stratigraphiques relatives aux changements climatiques à la fin du Pléistocène dans la partie méridionale de l'Amérique du Sud, *L'Anthropologie*, 98:3-24.
- Ashworth, A.C. and Hoganson, J.W., 1993, The magnitude and rapidity of climate change marking the end of the Pleistocene in the mid-latitudes of South America, *Palaeogeography, Palaeoclimatology, Palaeoecology*, 101:263-270.
- Ashworth, A.C. and Schwert, D.P., 1992, The Johns Lake site: a late Quaternary fossil beetle (Coleoptera) assemblage from the Missouri Coteau of North Dakota, *North Dakota Geological Survey Geological Survey Miscellaneous Series* 76: 257-265.
- Hoganson, J.W. and Ashworth, A.C., 1992, Fossil Beetle Evidence for climatic change 18,000-10,000 yr B.P. in south-central Chile, *Quaternary Research*, 37:101-116.
- Ashworth, A.C., Markgraf, V., and Villagran, C., 1991, Late Quaternary climatic history of the Chilean channels based on fossil pollen and beetle analyses, with an analysis of the modern vegetation and pollen rain, *Journal of Quaternary Science*, 6:279-291.

- Ashworth, A.C. and Schwert, D.P., 1991, On the occurrence of *Opisthius richardsoni* Kirby and *Asaphidion yukonense* Wickham (Coleoptera, Carabidae) as late Pleistocene fossils. *Proceedings of the Entomological Society of Washington*, 93(2):511-514.
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- Ashworth, A.C., 1974, Quaternary Coleoptera Studies, ESA - Coleopterists Society, Minneapolis, Minnesota.
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PUBLIC INTEREST IN RESEARCH (Since 2005)

- *Nabis ashworthi* – new species of insect named, <http://www.ndsu.edu/news/view/detail/14418/> (joins 4 other species with the name *ashworthi*)
- Prairie Public Television documentary Mother Nature In Charge: Devils Lake Life Stories, (first aired) April 17, 2012.
- Nova documentary ‘Secrets Beneath The Ice’ on climate-related research in Antarctica (first aired PBS, January 2011).
- Frozen Secrets : Antarctica Revealed. Sally Walker, 2010 (children’s book)
- Research reviewed in *News & Views in Nature Geoscience* (Oct. 2008, v. 1, p. 646).
- Research reviewed in *News Focus in Science* (30 May 2008, v. 320, p. 1152) <http://www.sciencemag.org/cgi/content/full/320/5880/1152>
- Research reviewed and quoted in *New York Times* (5 Aug 08), *Wall Street Journal* (6 Aug 08), *London Telegraph* (5 Aug 08), *Süddeutsche Zeitung* (5 Aug 08), *Fargo Forum* (2 Feb 08, 5 Aug 08, 16 Oct 08), and numerous others.
- Research featured on-line in National Geographic, BBC, Discovery Channel, CNN, Fox News, News Week, MSNBC, Examiner, IHT, Boston Herald, Miami Herald and others, 2008.
- Research and field experience featured in *Ice People*, a full-length feature documentary, (released 2008, shown on numerous cable television channels and available on-demand from Netflix and other sources).
- The Scientist and – article about the movie ‘Ice People’
- PPTV – subject of ‘Prairie Pulse’ interview
- Exploring Antarctica, George Steinmetz, *Washington Post Online*, 22 March, 2007.
- Expedition: Ins Tal des ewigen Eises, *Geo Magazine* (German), November 2006.
- Hidden Antarctica: What lies beneath, *New Scientist Magazine*, December 2006.
- Red River Divide – Prairie Public Television documentary 2005

OTHER PRESENTATIONS (since 2005)

Cankdeska Cicana Community College, Devils Lake, ND 2014, 2015,2016

Protease Research Group, NDSU, 2016

Darwin’s Birthday talk, Fargo Civic Center, ND, 2014, 2015

United Tribes Technical College, Bismarck, ND, 2013

GO 2030 – Fargo Comprehensive Plan, City of Fargo, 2011 Fargo (with K. McCaul)

Science Café, ‘Who believes in Global Warming .. and why?’ (with K. McCaul,2011)

NDSU Extension Service Annual Meeting, Fargo, Keynote ‘Is The Earth Warming?’ (with K. McCaul and A. Akyuz)

Department of Biological Sciences, NDSU, 2011

Crary Science Lecture, McMurdo, 2010

Dakota College, Bottineau, North Dakota, Earth Day Speaker, 2010

Phi Kappa Phi, NDSU, Banquet Speaker 2010

Darwin Birthday Panel, NDSU, 2010

Mary College, Bismarck, North Dakota, 2009

Scott Polar Research Institute, Cambridge, UK, 2009
 Geosciences, University of Arizona, Flagstaff, 2009
 NDSU Central Grasslands Research Center, Streeter, North Dakota, 2009
 Explorers Club, New York City, showing of 'Ice People', 2009
 Darwin Birthday Panel, NDSU, 2009
 Prairie Stewardship, Good Shepherd Lutheran Church, Bismarck, North Dakota, 2009
 Fargo Film Festival, Ice People showing, 2009
 Independents Night, Lincoln Center, New York, Film Society of Lincoln Center, Ice People showing, 2008
 Focus The Nation, Fargo Theatre, with Will Steger, 2008
 Minnesota State University, Moorhead, Public Lecture, 2008
 PariScience International Science Film Festival, Natural History Museum, Paris, France, showing of Ice People, 2008
 Concordia College, Moorhead, Minnesota, 2008 – Lecture to incoming class
 San Francisco international Film Festival, Ice people showing, 2008
 Teaching Climate Change Workshop, PSU, State College, Pennsylvania (with Cathy Whitlock, Cathy Manduca, co-convenors), AMQUA, USNC INQUA, NAGT/DLESE.
 NDSU Central Grasslands Research Center, Streeter, North Dakota, 2008
 American Museum of Natural History, New York, International Polar Year, 2008
 'Focus The Nation', 2007
 Megaconference Junior, 2007
 Heritage Center, Bismarck, North Dakota, Earth Day speaker, 2007
 Science Lecture, Black Hills State University, Spearfish, South Dakota, 2007
 Environmental and Conservation Sciences Graduate Program, NDSU, 2007
 Dakota Resource Council, Public lecture, Townhouse Motel, Fargo
 Department of Entomology, NDSU, 2007
 Crary Science Lecture, McMurdo, 2006
 Teaching Climate Change Workshop, Bozeman, Montana, 2006 (with Sheri Fritz, David Mogk and Cathy Whitlock, co-convenors) AMQUA, USNC INQUA,, NAGT/DLESE
 Department of Geological Sciences, University of Minnesota, Duluth, 2006
 Department of Earth and Environmental Sciences, Purdue University, West LaFayette, Indiana 2005

FIELD STUDIES

Antarctica McMurdo Dry Valleys, 2010, 2008, 2006, 2005,
 Antarctica Beardmore and Shackleton Glaciers, 2010, 2003, 1995
 NW USA, 1998, 1999
 Baffin Island 1995
 Montana and Colorado Rocky Mountains 1994
 Appalachian Mountains 1993
 North Slope of Alaska 1992
 Changbai Mountain, Jilin Province and Jingbian, Shaanxi Province, China 1992
 Chile and Argentina (10 field seasons between 1977-2002); South Patagonian ice cap (2005).

TEACHING (pre-2014)

Courses

Geology 106 Earth Through Time; Geology 303 Paleo Field Course; Geology 304 North Dakota Field Course; Geology 350 Invertebrate Paleontology; Geology 410 Sedimentology/Stratigraphy; Geology 440/640 Quaternary Biology; Geology 450 Field Geology; University 498 Global Climate Change.

Graduate Advisor

Sangita Strestha (ECS, current); Alexander Smith (M.S. ECS,); Jessie Rock (M.S. ECS, 2009), Michael Newbrey (Ph.D., Zoology, 2007); Rebecca Mink (M.S., Biological Sciences , 2007), Cong Shaoguang (Ph.D., Zoology, 1996); John Hoganson (Ph.D., Geology, UND, 1985); Kristine Carter (M.S., Geology, UND, 1985); David Fischer (M.S., Geology, UND, 1980). Postdoctoral Advisor for Dr. Rebecca Reiss (1993-95); Visiting graduate students Ingolf Askevold (Canada:Entomology); Bruce Archibald (Canada:Paleoentomology); Monica Jost (Switzerland), Maureen Marra (New Zealand); Clare McDonald (Paleoentomology, U.K.)

Graduate Committees

More than 30 NDSU Ph.D. and M.S. committees in the following disciplines: Biological Sciences, Botany, Chemistry, Civil Engineering, Community and Regional Planning, Drama, Entomology, Petroleum Engineering, Sociology/Anthropology, Soil Science, Zoology. Currently serving on committees of two Ph.D. students (Entomology), 1 M.S. student Environmental and Conservation Sciences.

Undergraduate Advisor

McNair student advisor (7)

Ten to twenty Geosciences undergraduates annually

PROFESSIONAL SOCIETIES

American Geophysical Union

American Quaternary Association

Coleopterists Society

Geological Society of America