

**ALAN E. KEHEW**

**Title: Professor, Department of Geosciences, Director, Michigan Geological Survey, Western Michigan University.**

**Date and Place of Birth: Sept. 17, 1947, Pittsburgh, Pa.**

**Education: B.S., Bucknell University; Geology, 1969**

**M.S., Montana State University; Earth Science (Geology Option); 1971**

**Ph.D., University of Idaho; Geology, 1977**

**Professional Experience:**

**Summer, 1969: Field Assistant, Bucknell University; field mapping in Norway**

**1969-1971: Research Assistant, Montana State University**

**1970-1974: Active duty, U.S. Navy**

**1972: Instructor, University of Maryland, Atlantic Division; Taught Physical Geology at U.S. Naval Air Station, Keflavik, Iceland while on active duty, U.S. Navy**

**1975-1977: Graduate Assistant, University of Idaho**

**1977-1980: Geologist II, III, North Dakota Geological Survey**

**Activities and Responsibilities: (1) evaluation of geologic suitability of sanitary landfill sites in North Dakota, (2) detailed hydrogeological study of a sanitary landfill site, (3) principal investigator of the EPA Surface Impoundment Assessment for North Dakota, (4) geological and environmental geologic mapping of the Minot, North Dakota area, (5) earth resistivity investigation of reclaimed surface lignite mine spoils, (6) hydrogeologic study of oil and gas well drilling disposal sites, (7) hydrogeological study of six municipal waste stabilization lagoons, and (8) investigation of erosional and depositional processes of glacial-lake spillways. Additional responsibilities included advisement of State Health Department concerning sanitary landfill permit applications and other waste disposal problems.**

**Summer, 1983: Graduate Research Professor, University of North Dakota**

**1980-1984: Assistant Professor of Geology, University of North Dakota**

**1984-1986: Associate Professor of Geology, University of North Dakota and Geologist, North Dakota Geological Survey; tenure granted, 1986**

**Courses Taught: General Geology for Engineers, Groundwater Geology, Engineering Geology, Geological Interpretation of Air Photos, Advanced Hydrogeology (Graduate), Hydrogeochemistry (Graduate), Advanced Geomorphology: Fluvial (Graduate). Additional**

responsibilities include: Coordinator of the Geological Engineering Program, Graduate Committees (Chairperson - 1 Ph.D. committee, 10 M.S. committees). Instructional development grant, 1984, \$500.

1986-Present: Associate Professor to Professor of Geology, Western Michigan University; Tenure granted, 1990; Interim Chair, 1995; Chair, 1997-2003.

Courses taught: Hydrogeochemistry, Geomorphology, Contaminant Hydrogeology, Glacial Geology, Field Hydrogeology (summer field camp), Hydrogeology, Environmental Geology, Introduction to Soils. Graduate committees (Chairperson - 8 PhD committees (completed), 29 M.S. committees (completed).

#### Research Grants Awarded:

1. Principal investigator - North Dakota Water Resources Research Institute Project A072-NDAK, "Effect of Seepage From Unlined Municipal Waste Stabilization Lagoons on Chemical Quality of Groundwater in Shallow Aquifers", 9-1-80 to 9-30-82. Total funding, \$33,900.
2. Co-Principal Investigator - USBM Contract No. J0275010 (Addition), "Geologic and Geochemical Controls on the Chemical Evolution of Subsurface Water in Surface Coal Mine Spoils", 10-1-79 to 3-31-83
3. Co-Principal Investigator - ND Water Resources Research Institute, "Characterization of Detrimental Effects of Salts and Other Chemical Constituents Carried in Surface and Subsurface Waters From Brine and Drilling Fluid Disposal Pits Buried During Oil Development", 9-1-83 to 9-30-85. Total funding, \$190,000
4. Principal Investigator - 4 grants from University of North Dakota Faculty Research Committee. Total funding, \$2180.
5. Principal Investigator - WMU Faculty and Creative Activities Support Fund, " Chemical Evolution of Groundwater in Kalamazoo County, Michigan", 1/87-4/88, \$4200
6. Co-Principal Investigator, Institute of Water Research, Michigan State University, "Hydrogeological and Hydrogeochemical Characterization and Implication for Consumptive Groundwater Use of a Large Glacial-drift Aquifer in Southwest Michigan: 4/88 - 3/90, \$ 22,500 (federal)
7. Co-Principal Investigator, Institute of Water Research, Michigan State University, "Determinants of Ground-Water Quality in a Multi-Layer Glacial Drift Aquifer System: Implications for Wellhead Protection for Small Community Water Supply Systems in Agricultural Settings: April 1, 1992-March 31, 1994, \$47,000 (Federal)
8. Co-Principal Investigator, City of Grand Rapids, "Optimization of Pb (Lead) Corrosion Control Treatments for the City of Grand Rapids", 1992-1993, \$74,823
9. Principal Investigator, Institute of Water Research, Michigan State University, "Determinants of Ground-Water Quality in a Multi-Layer Glacial Drift Aquifer System: Role of Wetlands in Nitrogen Speciation", April 1, 1994-March 31, 1995, \$17,000 (Federal)
10. Principal Investigator, U.S. Geological Survey, "Geologic Mapping of St. Joseph County, Michigan", April 1, 1995-March 31, 1996, \$15,000 (Federal)

11. Co-Principal Investigator, U.S. Army Research Office, "Slope Stability Analysis and Ground-Water Hydrology in Heterogeneous Glacial Material: Elements for Prediction of Bluff Erosion, July 1, 1996-June 30, 1999, \$197, 048
12. Principal Investigator, U.S. Geological Survey, Geologic Mapping of St. Joseph County, Michigan, Yr 2", June 1-1996-May 31, 1997, \$51, 826.
13. Principal Investigator, U.S. Geological Survey, "Geological Mapping of Oliver Lake Quadrangle, La Grange County, Indiana, Western Part", May 15, 1996-May 14, 1997, \$9998.
14. Principal Investigator, U.S. Geological Survey, Geological Mapping of ST. Joseph County, Michigan, Yr 3", June 1, 1997-May 31, 1998; \$45,386
15. Principal Investigator, U.S. Geological Survey, Geological Mapping of the East Leroy and Union City 7.5 Minute Quadrangles, Calhoun County, Michigan, May 1, 1997-April 30, 1998, \$6,000.
16. Principal Investigator, U.S. Geological Survey, Geologic Mapping of Van Buren County, Year I, 4/1/98-3/30/99, \$20,997
17. Principal Investigator, U.S. Geological Survey, Geologic Mapping of the Gobles East 7.5 Minute Quadrangle, Van Buren County, Michigan, 4/1/98-3/31/99, \$6,000.
18. Principal Investigator, U.S. Geological Survey, Geologic Mapping of Van Buren County, Yr 2", 5/4/99-4/30/00, \$40,575
19. Principal Investigator, U.S. Geological Survey, Origin of the Kalamazoo River Valley and Relationship to the Dynamics of the Lake Michigan and Saginaw Lobes of the Laurentide Ice Sheet: An EDMAP Project, 4/1/99- 3/31/00, \$4998.
20. Principal Investigator, U.S. Geological Survey, Geologic Mapping of Van Buren County, Year 3, 4/1/00-3/30/01 \$42,507.
21. Principal Investigator, U.S. Geological Survey, Origin of the Kalamazoo River Valley and Relationship to the Dynamics of the Lake Michigan and Saginaw Lobes of the Laurentide Ice Sheet: An EDMAP Project, 4/1/00- 3/31/01, \$5250.
22. Co-Principal Investigator, US Army Corps of Engineers, Monitoring the effects of groundwater on the stability of slopes experiencing minimal toe erosion, 6/21/00-9/30/00; \$20,000
23. Principal Investigator, U.S. Geological Survey, Geologic Mapping of Van Buren County, Year 4, 4/1/01-3/30/02 \$46,183.
24. Co-Principal Investigator, U.S. Army Corps of Engineers, "Monitoring of Allegan County Bluff Dewatering Project", 9/10/01- 6/01/02, \$110,000
25. Principal Investigator, U.S. Geological Survey, "Three Dimensional Mapping of the Kalamazoo and Kalamazoo Southwest quadrangles, Michigan: Origin and timing of incision of the Kalamazoo Valley relative to the Lake Michigan Lobe" 4/01/01-3/31/02, \$7,500.
26. Principal Investigator, U.S. Geological Survey, "Geologic Mapping of Allegan County, Yr. 1", 7/1/02-6/30/03, \$41, 125.

27. Principal Investigator, U.S. Department of State, Bureau of Educational and Cultural Affairs “Establishment of an Environmental Hydrogeology Coalition including Western Michigan University, Suez Canal University and South Valley University” \$221, 772.
28. Co-Principal Investigator, US Army Corps of Engineers, “Lake Michigan Bluff Dewatering Project” 10/1/02-12/31/02, \$125,000.
29. Co-Principal Investigator, US Army Corps of Engineers, “Lake Michigan Bluff Dewatering Project” 1/1/03- 12/31/03- \$161,000.
30. Principal Investigator, U.S. Geological Survey, “Geologic Mapping of Allegan County, Yr. 2”, 8/1/03-7/31/04, \$30,171.
31. Principal Investigator, Michigan Dept. of Environmental Quality, “Pharmaceuticals, Personal Care Products, and Polybrominated Diphenyl Ethers in the Environment” 9/03-8/05. (PhD project for Lisa Anderson) \$43,000
32. Principal Investigator, Michigan Dept. of Environmental Quality, “Geologic Mapping of Allegan County, Yr 3, 8/1/04-7/31/05; \$25,423.
33. Co-Principal Investigator, US Army Corps of Engineers, “Lake Michigan Bluff De-watering Project. “Monitoring of Allegan County Bluff Dewatering Project” 6/2/04-1/31/05. \$188,576.
34. Principal Investigator, Three dimensional mapping of the Dowling, 7.5 minute quadrangle, southwest Michigan: eskers, tunnel channels, and implications for the hydrologic regime of the Saginaw Lobe. \$10,993. U.S. Geological Survey.
35. Co-Principal Investigator. Stabilization of shoreline bluffs by removal of groundwater. \$80,000: 6/01/06-12/1/06; Co-PI, Ron Chase, P.I. U.S Army Corps of Engineers.
36. Principal Investigator, Causes of seasonal fluctuations of BTEX concentrations in monitor wells at UST sites. Kalamazoo Community Foundation; \$4038.
37. Co-Principal Investigator, Stabilization of shoreline bluffs by removal of groundwater. 25,000: 8/01/07-12/31/07 ; Co-PI, Ron Chase, P.I. U.S Army Corps of Engineers.
38. Principal investigator, US Geological Survey: Surficial geologic mapping Augusta 7.5 minute quadrangle Calhoun and Kalamazoo Counties, MI, \$39,952, awarded
39. Principal Investigator, US Geological Survey: Surficial geologic mapping Calhoun County Michigan, Marsahll and NW Albion quadrangles, \$61, 994, awarded
40. Principal Investigator, US Geological Survey: Surficial geologic mapping, Climax and NE Albion quadrangles, Calhoun, Kalamazoo, and Jackson Counties, Michigan, \$58, 829, awarded
41. Principal Investigator, US Geological Survey: Surficial geologic mapping Calhoun County Michigan, East Leroy, Lyons Lake and Ellis Corners 7.5 minute quadrangles. \$77637, awarded.
42. Surficial Geologic Mapping Calhoun County, Michigan, Southwest Albion, Southeast Albion 7.5 Minute Quads, and production of Barry County Composite Map. U.S. Geological Survey. \$70483.

**42. Principal investigator, US Geological Survey: Surficial geologic mapping Calhoun County, Michigan, Olivet 7.5 minute quad. Nov. 2014, \$46,447 awarded. 9/1/14-10/15/15**

**43. Principal Investigator, US Geological Survey: Surficial Geologic Mapping, Tekonsha, Burlington, Union City 7.5 min. quadrangles; March, 2015, \$41,420 awarded. 5/1/14-12/31/15**

**44. Principal Investigator, U.S. Geological Survey,EDMAP, Surficial Geologic Mapping of the Indian Town and Wood Island SE 7.5 Minute Quadrangles, Pictured Rocks National Lakeshore, Michigan, Nov. 2015, \$14,594 Awarded. 5/1/15-4/30/16**

**Research Interests:**

**Surficial geologic processes and deposits.**

**Effects of waste disposal on groundwater quality.**

**Chemical evolution of groundwater.**

**Geologic mapping applied to land-use planning and groundwater protection**

**Glacial and Quaternary geology of the northern Great Plains and Great Lakes Regions.**

**Erosional and depositional effects associated with Pleistocene glacial-lake outburst floods.**

**Glacial geology of southwestern Michigan**

**Professional Societies:**

**American Geophysical Union**

**Geological Society of America (President, North Central Section, 1993-1994; General Chair of North Central Section, 1994 Annual Meeting)**

**Association of Ground Water Scientists and Engineers**

**American Quaternary Association**

**American Institute of Hydrology; Certified Professional Hydrogeologist**

**Awards and Honors**

**Outstanding Geologist, 2007. Michigan Section, American Institute of Professional Geologists**

**Fellow, Geological Society of America, Elected 2008.**

**Publications:**

## BOOKS, BOOK CHAPTERS, BOOK REVIEWS

1. Kehew, A.E., 1983, Book Review, "Geologic Hazards, Resources, and Environmental Planning", by G.B. Griggs and J.A. Gilchrist: *Journal of Geologic Education*, v. 31, p. 398-399
2. Kehew, A.E., 1987, Book Review, "Engineering Geology", by F.C. Beavis: *Journal of Geologic Education*, v. 35, p. 106
3. Kehew, A.E., 1988, *General Geology for Engineers*: Prentice-Hall Inc., 440 p.
4. Kehew, A.E., 1988, *Instructors Manual With Tests: General Geology for Engineers*: Prentice-Hall Inc.
5. Kehew, A.E. and Lord, M.L., 1987, Glacial-lake outbursts along the mid-continent margins of the Laurentide Ice Sheet, in, *Catastrophic Flooding*, L. Mayer and D. Nash, eds., Boston, Allen & Unwin, p. 95-120
6. Kehew, A.E., 1995, *Geology for Engineers and Environmental Scientists, 2nd Edition*: Prentice-Hall, Inc., 574 p.
7. Kehew, A.E., 2001, *Applied Chemical Hydrogeology*. Prentice-Hall, Inc., 368p.
8. Chase, R.B., Kehew, A.E., and Montgomery, W.W. 2001. Determination of Slope Displacement Mechanism and Causes: An Approach using new geometric modeling techniques and climate data: *in*, Harmon, R.S., and Doe, W.W., III, eds., *Landscape Erosion and Evolution Modeling*, Kluwer Academic, New York, p. 57-87.
9. Kehew, A.E. 2006. *Geology for Engineers and Environmental Scientists, 3rd Edition*: Prentice-Hall, Inc.

## JOURNAL ARTICLES AND OTHER REFEREED PAPERS

1. Bluemle, J.P., Kehew, A.E., Brostuen, E.A., and Harris, K.L., 1978, Alfalfa and the occurrence of fissures on the North Dakota prairies: *Prairie Naturalist*, v. 10, no. 2, p. 53-59.
2. Kehew, A.E., 1979, Drainage history of the Lewiston Basin: *Northwest Science*, v. 53, no. 4, p. 242-250.
3. Kehew, A.E., 1982, Catastrophic flood hypothesis for the origin of the Souris Spillway, Saskatchewan and North Dakota: *Geological Society of America Bulletin*, v. 93, no. 10, p. 1051-1058.
4. Kehew, A.E. and Clayton, Lee, 1983, Late Wisconsinan floods and development of the Souris-Pembina spillway system, in, Teller, J.T. and Clayton, Lee, eds., *Glacial Lake Agassiz*: Geological Association of Canada Special Paper 26, p. 187-210.
5. Kehew, A.E., Schwindt, F.J., and Brown, D.J., 1984, Hydrogeochemical interaction between a municipal waste stabilization lagoon and a shallow aquifer: *Ground Water*, v. 22, p. 746-754.
6. Kehew, A.E. and Lord, M.L., 1986, Origin and large-scale erosional features of glacial-lake spillways in the northern Great Plains: *Geological Society of America Bulletin*, v. 97, no. 2, p. 162-177.

7. Kehew, A. E. and Boettger, W.M., 1986, Depositional environments of buried-valley aquifers in North Dakota: *Ground Water*, v.24, no. 6, p. 728-735
8. Lord, M.L. and Kehew, A.E., 1987, Sedimentology and paleohydrology of glacial-lake outburst deposits in southeastern Saskatchewan and northwestern North Dakota: *Geological Society of America Bulletin*, v. 99, p. 663-673
9. Murphy, E.C., Kehew, A.E., Beal, W.A., and Groenewold, G.H., 1988, Leachate generated by an oil-and-gas brine pond in North Dakota: *Ground Water*, v. 26, no. 1, p. 31-38
10. Kehew, A.E. and Lord, M.L., 1989, Glacial Lake Spillways of the Central Interior Plains, Canada - U.S.: *The Canadian Geographer*, v. 33, no 3, p. 274-277
11. Bulger, P.R., Kehew, A.E., and Nelson, R.A., 1989, Dissimilatory nitrate reduction in a waste-water contaminated aquifer: *Ground Water*, v. 27, no. 5, p. 664-671
12. Kehew, A.E. and Passero, R.N., 1990, pH and redox buffering mechanisms in a glacial drift aquifer contaminated by landfill leachate: *Ground Water*, v. 28, no. 5, p. 728-737
13. Kehew, A.E. and Brewer, M.K., 1992, Groundwater Quality Variations in Glacial Drift and Bedrock Aquifers, Barry County, Michigan: *Environmental Geology and Water Science*, v. 20, p. 105-115
14. Kehew, A.E., 1993, Glacial-lake outburst erosion of the Grand Valley, Michigan and impacts on glacial lakes in the Lake Michigan basin: *Quaternary Research*, v. 239, p. 36-44
15. Kehew, A.E. and Teller, J.T., 1994, Glacial-lake spillway incision and deposition of a coarse-grained fan near Watrous, Saskatchewan: *Canadian Journal of Earth Sciences*, v. 31, p. 544-553
16. Kehew, A.E., and Teller, J.T., 1994, History of late glacial runoff along the southwestern margin of the Laurentide Ice Sheet: in, Teller, J.T. and Kehew, A.E., guest eds., *Late Glacial History of Large Proglacial Lakes and Meltwater Runoff Along the Laurentide Ice Sheet*, Quaternary Science Reviews, v. 13, p. 859-877
17. Teller, J.T. and Kehew, A.E., 1994, Introduction to the Late glacial history of large proglacial lakes and meltwater runoff along the Laurentide Ice Sheet, *Quaternary Science Reviews*, v. 13, p. 795-799
18. Kehew, A.E., Straw, W.T., Steinmann, W.K., Barrese, P.G., Passarella, G., and Peng, W.S., 1996, Groundwater quality and flow in a shallow glaciofluvial aquifer impacted by agricultural contamination: *Ground Water*, v. 34, p. 491-500
19. Kehew, A.E., Passero, R.N., Krishnamurthy, R.V., Lovett, C.K., Betts, M.A., and Dayharsh, B.A., 1998, Hydrogeochemical interaction between a wetland and an unconfined glacial drift aquifer, southwestern Michigan: *Ground Water* v. 36, no. 5, 849-856
20. Kehew, A.E., Nicks, L.P., and Straw, W.T., 1999 Palimpsest tunnel valleys: evidence for relative timing of advances in an interlobate area of the Laurentide Ice Sheet: *Annals of Glaciology*, v. 28, p. 47-52.
21. Chase, R.B., Chase, K.E., Kehew, A.E., and Montgomery, W.W. 2001. Determining the kinematics of slope movements using low-cost monitoring and cross-section balancing. *Environmental & Engineering Geoscience*, v. VII, no. 2, p. 193-203.

22. Chowdhury, S.H. and Kehew, A.E. 2003. Correlation between nitrate contamination and ground water pollution potential. *Ground Water*, v. 41, no. 6, p. 735-745.
23. Unterreiner, G.A. and Kehew, A.E. 2005. Spatial and temporal distribution of herbicides and herbicide degradates in a shallow glacial drift aquifer/surface water system, southwestern Michigan. *Groundwater Monitoring & Remediation*, v. 25, no. 2, p. 1-10.
24. Kozlowski, A.L., Kehew, A.E. and Bird, B.C 2005. Outburst flood origin of the Central Kalamazoo River Valley, Michigan, U.S.A. *Quaternary Science Reviews* 24 2354-2374
25. Kehew, A.E., Beukema, S. P., Bird, B.C. and Kozlowski, A.L. 2005. Fast flow of the Lake Michigan Lobe of the Laurentide Ice Sheet: evidence from sediment-landform assemblages in southwestern Michigan, USA, *Quaternary Science Reviews* 24 2335-2353
26. Kehew, A.E., Lord, M.L., and Kozlowski, A.L. 2007. Glacifluvial landforms of erosion: in Elias, S.A., Ed-in-Chief, *Encyclopedia of Quaternary Science*, Elsevier, p 818-830
27. Chase, R.B., Kehew, A.E., Kaunda, R.B., and Glynn, M.E., 2007, Mitigation of slope failures in a freeze/thaw environment by removal of ground water: *1st North American Landslide Conference: Association of Engineering Geologists Special Publication 23*, pp.1582-1594
28. Chase, R.B., Kehew, A.E., Glynn, M.E., and Selegean, J.P., 2007, Modeling debris slide geometry with balanced cross-sections: a rigorous field test: *Environmental and Engineering Geoscience*, v. XIII, No.1, pp.193-203.
29. Kehew, A. E. and Kozlowski, A.L. 2007. Tunnel Channels of the Saginaw Lobe, Michigan, USA, in, Johannsson, P., and Sarala, P. (eds.) *Applied Quaternary research in the central part of glaciated terrain, Geological Survey of Finland, Special Paper 46*, pp. 69-77.
30. Kaunda, R.B. Chase, R.B. Kehew A.E., Kaugers, K. Selegean, J.P. 2008. Interpretation of a Progressive Slope Movement Using Balanced Cross Sections and Numerical Integration, *Engineering and Environmental Geoscience*, 14, 121-131.
31. Kehew, A.E., Lord, M.L., Kozlowski, A.L. and Fisher, T.G. 2009, Proglacial megaflooding along the margins of the Laurentide Ice Sheet. In, Burr, D., Carling, P.A., and Baker, V.R., *Megaflooding on earth and Mars*, Cambridge University Press 121-131.
32. Kaunda, R.B., Chase, R.B., Kehew, A.E., Kaugars, K, 2010, Neural network modeling applications in active slope stability problems: *Environmental Earth Sciences* , 60, 1545-1558
33. Kehew, A.E., Milewski, A., and Soliman F. 2010, Reconstructing an extreme flood from boulder transport and rainfall-runoff modeling: Wadi Isla, South Sinai Egypt: *Global and Planetary Change* 70, 64-75.
34. Kehew, A.E. and Lynch, P.M. 2011, Concentration trends and water-level fluctuations at UST sites. *Environmental Earth Sciences*, 62, 985-998.
35. Barnes, N. A., Kehew, A.E., Krishnamurthy, R.V., and Koretsky, C. M. 2011. Redox evolution in glacial drift aquifers: role of diamictons in reduction of Fe(III). *Environmental Earth Sciences*, 62, 1027-1038
36. Kehew, A.E., Esch, J.M., Kozlowski, A.L. and Ewald, S.K. (2012) Glacial landsystems and dynamics of the Saginaw Lobe of the Laurentide Ice Sheet, Michigan, USA. *Quaternary International* 60, 21-31

37. Kehew, A.E., Piotrowski, J.A. and Jørgensen, F. 2012. Tunnel Valleys: Concepts and controversies—A review: *Earth Science Reviews* 113, 33-58.
38. Abouelmagd, A., Sultan, M., Milewski, A., Kehew, A.E., Sturchio, N.C., Soliman, F., Krishnamurthy, R.V. and Cutrim, E. 2012. Toward a better understanding of paleoclimatic regimes that recharged the fossil aquifers in North Africa: Inferences from stable isotope and remote sensing data. *Palaeogeography, Palaeoclimatology, Palaeoecology* 329-330, 137-149.
39. Kehew, A.E., Ewald, S.K., Esch, J.M. and Kozlowski, A.L. 2013. On the origin of tunnel channels of the Saginaw Lobe, Laurentide Ice Sheet, Michigan USA. *Boreas*, Vol. 42, pp. 442–462.
40. Kehew, A.E., Kozlowski, A.L., Bird, B.C. and Esch, J.M. 2013, Contrasting terrains of the Lake Michigan and Saginawlobes of the Laurentide Ice Sheet in southern Michigan, *in*, Gillespie, R., ed., *Insights into the Michigan Basin*, Geological Society of American, Field Guide 31, p. 15-36.
41. Korany, E., Aggour, T., Mosad, S. , Kehew, A., and , Salim, A., 2012, Hydrogeological impacts of recent recharge to Nubia Sandstone aquifer In Tuska-Abu Simble area, Western Desert, Egypt, *Egyptian Journal of Geology*, v. 56, 2012, p.33-51
42. Kehew, A.E., Lord, M.L. and Kozlowski, A.L. 2013. GLACIAL LANDFORMS | Glaciofluvial Landforms of Erosion. *Encyclopedia of Quaternary Science*, 2<sup>nd</sup> Ed. Elsevier, p 825-838.
43. Abouelmagd, A., Sultan, M., Sturchio, N.C., Soliman, F., Rashed, M., Ahmed, M., Kehew, A.E. and Chouinard, K. 2014. Paleoclimate record in the Nubian Sandstone Aquifer, Sinai Peninsula, Egypt. *Quaternary Research* 81, 158-167.

#### RESEARCH REPORTS, SYMPOSIA PROCEEDINGS

1. Kehew, A.E. and Knudsen, G.W., 1979, Effect on groundwater of the Cavalier, North Dakota sanitary landfill: Proceedings, Seventeenth Annual Symposium on Engineering Geology and Soils Engineering, Moscow, Idaho, p. 161-180.
2. Kehew, A.E., Peterson, N.L. and Schwindt, F.J., 1980, North Dakota surface wastewater report: North Dakota Geological Survey Open File Report OF-2, 40 p.
3. Kehew, A.E., 1983, Geology and geotechnical conditions of Minot, North Dakota: North Dakota Geological Survey Report of Investigation 73, 35 p.
4. Kehew, A.E. and Groenewold, G.H, 1983, Earth resistivity investigations in reclaimed surface lignite mine spoils: North Dakota Geological Survey Report of Investigation 77, 92 p.
5. Kehew, A.E., Schwindt, F.J., and Brown, D.J., 1983, Effect of seepage from unlined municipal waste stabilization lagoons on chemical quality of groundwater in shallow aquifers: North Dakota Geological Survey Report of Investigation 80, 140 p.
6. Murphy, E.C. and Kehew, A.E., 1984, The effect of oil and gas well drilling fluids on shallow groundwater in western North Dakota: North Dakota Geological Survey Report of Investigation 82, 155 p.

7. Murphy, E.C., Kehew, A.E., Groenewold, G.H., and Beal, W.A., 1985, Investigation of a surface brine flow from an abandoned seismic shot hole in the Black Slough Oil Field, Burke County, North Dakota: Task 4-1 in Characterization of detrimental effects of salts and other chemical constituents carried in surface and subsurface waters from brine and drilling fluid disposal pits buried during oil development, Final Report to North Dakota Water Resources Research Inst.
8. Murphy, E.C., Kehew, A.E., Groenewold, G.H., and Beal, W.A., 1985, Movement of leachate from a buried oil and gas brine-disposal pond in the Wylie Field, Bottineau County, North Dakota: Task 4-2, in Characterization of detrimental effects of salts and other chemical constituents carried in surface and subsurface waters from brine and drilling fluid disposal pits buried during oil development, Final Report to North Dakota Water Resources Research Institute.
9. Beal, W.A., Murphy, E.C., and Kehew, A.E., 1987, Contaminant migration of oil-and-gas drilling fluids within the glacial sediments of north-central North Dakota: North Dakota Geological Survey Report of Investigation 86, 43 p.
10. Murphy, E.C., Beal, W.A., and Kehew, A.E., 1986, The effects of buried drilling fluid on shallow groundwater in North Dakota: Proceedings, National Conference on Drilling Muds, May 29-30, 1986, Norman, Oklahoma, University of Oklahoma Environmental and Ground Water Institute
11. Kehew, A.E., Passero, R.N., and Rudder, J.D., Jr., 1988, Inorganic geochemistry of the KL landfill leachate plume, Kalamazoo County, Michigan: Proceedings of the Ground Water Geochemistry Conference, Feb. 16-18, 1988, Denver, CO, National Water Well Association, p. 621-637
12. Kehew, A.E., and Bulger, P.R., 1988, Groundwater degradation from the McVille waste stabilization lagoon: Proceedings, North Dakota Groundwater Quality Symposium, March 29-30, 1988, Bismarck, ND, p. 108-123
13. Kehew, A. E. and Passero, R.N., 1988, Preliminary statistical analysis of groundwater quality, Berrien County, Michigan: Proceedings, Policy, Planning, and Resource Protection Conference, Western Michigan University, p. 65-80
14. Stoline, M.R., Miller, P.S., Kehew, A.E., Passero, R.N., and Rowe, G.W., 1988, Groundwater chemistry statistical summaries for Ingham County, Michigan: Michigan Groundwater Survey, Western Michigan University, 128 p
15. Stoline, M.R., Miller, P.S., Kehew, A.E., Passero, R.N., and DeBoer, W.P., 1989, Groundwater Chemistry Statistical Summaries for Barry County, Michigan: Michigan Groundwater Survey, Western Michigan University, 160 p.
16. Stoline, M.R., Miller, P.S., Kehew, A.E., Passero, R.N., and McKenzie, B.R. 1989, Groundwater Chemistry Statistical Summaries for Barry County, Michigan: Michigan Groundwater Survey, Western Michigan University, 150 p.
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#### MAPS

1996-1998 Twelve 7 1/2 minute quad glacial terrain maps; 1:24,000 scale, in St. Joseph County, Michigan. Released as open-file maps by the Michigan Department of Environmental Quality; Geological Survey Division. Submitted in digital form in ARC INFO format. Various student co-authors.

1999-2002. Twelve 7 1/2 minute quad glacial terrain maps, 1:24,000 scale in Van Buren County, Michigan. Released as open-file maps by the Michigan Department of Environmental Quality, Geological Survey Division. Submitted in digital form in ARC INFO format. Various student co-authors.

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2008-2014. One to two 7/12 minute quad glacial terrain maps per year.

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