

DAVID POISTER

St. Norbert College
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Chemistry and Environmental Science
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Education:

B.S. 1990, *Summa cum Laude*, St. Francis College, Loretto, Pennsylvania
Major: Chemistry Minors: Biology, Physics
M.S. 1992, University of Wisconsin, Madison
Major: Water Chemistry; Advisor: David E. Armstrong
Ph.D. 1995, University of Wisconsin, Madison
Major: Water Chemistry; Advisor: David E. Armstrong
Minor: Oceanography and Limnology; Advisor: Stephen R. Carpenter

Professional Experience:

2015 - present: Professor, St. Norbert College
2005 - 2015: Associate Professor, St. Norbert College
1995 - 2005: Assistant Professor, St. Norbert College (Tenure Granted: August 2000)
1996: Visiting Scholar, Environmental Remote Sensing Center, University of Wisconsin-Madison
1990 -1995: Graduate Research Assistant, University of Wisconsin-Madison

Publications:

- Poister, D. 2022. Human evolution and the Christian call to love. *Zygon: Journal of Religion & Science*. 57(2): 368-388.
- Poister, D., A. Schaefer*, A. Baert*, J. Tracey*, and K. Richards*. 2015. Stimulated rejuvenation of dormant *Aulacoseira granulata* (Bacillariophyta) by *Gloeocystis planctonica* (Chlorophyta) in a eutrophic river. *Journal of Phycology*. 51: 332-342.
- Poister, D., A. Kurth*, A. Farrell*, S. Gray*. 2012. Seasonality of *Aulacoseira ambigua* abundance and filament length: biogeochemical implications. *Plankton and Benthos Research*. 7: 55-63.
- Poister, D., and C. DeGuelle*. 2005. The influence of particle size distribution and composition on seasonal sedimentation rates in a temperate lake. *Hydrobiologia*. 537: 35-46.
- Poister, D., and D.E. Armstrong. 2003. Seasonal sedimentation trends in a mesotrophic lake: Influence of diatoms and implications for phosphorus availability. *Biogeochemistry*. 65: 1-13.
- Johll, M.E., D. Poister, and J. Ferguson*. 2002. Statistical comparison of multiple methods for the determination of dissolved oxygen levels in natural waters. *Chemical Educator*. 3:146-148.
- Poister, D., D.E. Armstrong, and J.P. Hurley. 1999. Influences of grazing on temporal patterns of algal pigments in suspended and sedimenting algae in a north temperate lake. *Canadian Journal of Fisheries and Aquatic Sciences*. 56:60-69.

Poister, D., D.E. Armstrong, and J.P. Hurley. 1994. A six year record of nutrient element sedimentation and recycling in three north temperate lakes. *Canadian Journal of Fisheries and Aquatic Sciences*. 51:2457-2466.

Poister, D. and T.K. Tokunaga. 1992. Selenium in Kesterson Reservoir ephemeral pools formed by groundwater rise: II. Laboratory experiments. *Journal of Environmental Quality*. 21:252-258.

Presentations:

Poister, D. 2022. Aggregation and evolutionary movement toward the kingdom of God. College Theology Society Annual Convention.

Baert, A.*, D. Poister, A. Schaefer*, J. Tracey*, and K. Richards*. 2014. Chemical signaling between algae species in a Wisconsin river. American Chemical Society Central Regional Meeting. Pittsburgh, Pennsylvania.

Poister, D., A. Schaefer*, K. Richards*, and T. Poplin*. 2014. Allelopathic rejuvenation: Stimulation of dormant *Aulacoseira granulata* by *Gloeocystis planctonica*. Joint Aquatic Sciences Meeting. Portland, Oregon.

Richards, K.*, A. Schaefer*, and D. Poister. 2012. Fox River phytoplankton: Pigments and allelopathic interactions. Fox-Wolf Watershed Alliance Research Symposium, De Pere, Wisconsin.

Schaefer, A.*, and D. Poister. 2011. Allelopathic facilitation of *Aulacoseira granulata* by *Gloeocystis Planctonica*. Fox-Wolf Watershed Alliance Research Symposium. Green Bay, Wisconsin.

Schaefer, A.*, and D. Poister. 2010. Diatom wake-up call: stimulation of *Aulacoseira granulata* growth by a green algae. Fox-Wolf Watershed Alliance Research Symposium. Oshkosh, Wisconsin.

Poister, D., A. Kurth*, A. Farrell*, and S. Gray*. 2010. The biogeochemical impact of the diatom *Aulacoseira ambigua* in Trout Lake. Science and the Northwoods Conference. Boulder Junction, Wisconsin.

Holt, E.C.*, and D. Poister. 2008. Effects of Cyanobacteria on *Aulacoseira* Colony Size. Argonne Symposium for Undergraduates in Science, Engineering and Mathematics. Argonne, Illinois.

Poister, D., A. Kurth*, A. Farrell*, and K. Lang*. 2008. *Aulacoseira* dynamics in a Wisconsin lake. American Society of Limnology and Oceanography, Summer Meeting. St. John's, Newfoundland.

Kurth, A*., and D. Poister. 2006. *Aulacoseira* colony size in Trout Lake. Argonne Symposium for Undergraduates in Science, Engineering and Mathematics. Argonne, Illinois.

Tracey, J.K.*, and D. Poister. 2005. Effects of environmental variables on *Aulacoseira* colony size in the Green Bay system. Argonne Symposium for Undergraduates in Science, Engineering and Mathematics. Argonne, Illinois.

Poister, D., and C. DeGuelle*. 2004. Particle size distribution and composition in a temperate lake: Decoupling of production and sedimentation. American Society of Limnology

and Oceanography, Aquatic Sciences Meeting. Savannah, Georgia.

Poister, D. 2004. Seasonal sedimentation trends in Trout Lake. Science and the Northwoods Conference. Boulder Junction, Wisconsin.

Pansch, L.A.*, and D. Poister. 2004. Increased diatom colony size induced by a chemical cue from *Daphnia*. American Water Resources Association Meeting. Wisconsin Rapids, Wisconsin.

Wozniak B.J.*, S.A. Carney*, D. Poister. 1999. Nonpoint pollution from residential areas: Impact of drainage management. American Chemical Society Meeting. Anaheim, California.

Carney, S.A*, A.M. Dansart*, and D. Poister. 1998. The influence of drainage management on storm water quality in urban watersheds. Wisconsin Academy of Arts and Sciences. De Pere, Wisconsin.

Poister, D., and D.E. Armstrong. 1995. Nutrient and pigment concentrations in the suspended and settling particulate matter of three north temperate lakes. American Water Resources Association Meeting. Appleton, Wisconsin.

Poister, D., and D.E. Armstrong. 1994. The effect of diatom sedimentation on nutrient cycles in three north temperate lakes. American Society of Limnology and Oceanography, Aquatic Sciences Meeting. Miami, Florida.

Poister, D., and D.E. Armstrong. 1991. Estimating nutrient regeneration in three northern Wisconsin lakes: A mass balance approach. Environmental Chemistry Workshop. Minneapolis, Minnesota.

* = SNC undergraduate collaborator

Grants Received:

2011: St. Norbert College Faculty Development Summer Grant, \$2500

2011: St. Norbert College Student-Faculty Endowment Fund Award, \$1000 (with A. Schaefer)

2006: St. Norbert College Faculty Development Summer Grant, \$1750

2005: St. Norbert College Summer Grant Writing Award, \$1750

2004: St. Norbert College Faculty Development Summer Grant, \$1750

2003: St. Norbert College Student-Faculty Endowment Fund Award, \$1000 (with L. Pansch)

2002: National Science Foundation: Research Opportunity Award, \$13,980 (with S.R. Carpenter)

2002: St. Norbert College Faculty Development Summer Grant, \$1750

1996: National Aeronautics and Space Administration: Joint Venture Program, \$110,000

1996: National Science Foundation: Instructional Laboratory Improvement, \$80,000 (with P. Cochran, N. Ham, and J. Hodgson)

Current Memberships:

Society of Catholic Scientists

The Institute on Religion in an Age of Science

College Theology Society

Reviewer:

European Journal of Phycology, Aquatic Sciences, Hydrobiologia, Canadian Journal of Fisheries and Aquatic Sciences, Biogeochemistry, Verhandlungen Internationale Vereinigung für Theoretische und Angewandte Limnologie, Wisconsin Sea Grant Institute

Courses Taught:

Environmental Science (ENVS 300)	General Chemistry (CHEM 105 and 107)
Analytical Chemistry (CHEM 211)	Environmental Chemistry (CHEM 302/ENVS 310)

On-campus Science Presentations:

- D. Poister. 2005. The Earth's Water Resources. Great Decision Lecture Series.
- D. Poister. 2007. A Year in the Life of a Lake. Spotlight on Scholarship.
- A. Schaefer and D. Poister. 2010. Stimulation of *Aulacoseira granulata* by a green algae. Celebrating Student and Faculty/Staff Collaborations.
- A. Schaefer and D. Poister. 2011. Allelopathic facilitation of *Aulacoseira granulata*. Celebrating Student and Faculty/Staff Collaborations.
- D. Poister. Syllabus Construction Panel. 2010 and 2011. New Faculty Orientation.
- D. Poister. 2012. State of the World's Oceans. Great Decision Lecture Series.
- K. Richards and D. Poister. 2013. Fox River Phytoplankton. Celebrating Student and Faculty/Staff Collaborations.
- M. Van Blarcom and D. Poister. 2014. Simulatory allelopathy of *Aulacoseira granulata* by *Gloeocystis planctonica* at pH 7 and 9. Undergraduate Research Forum.
- D. Poister. 2014. Adventures of a Blind Pig: Discoveries from the Fox River. Spotlight on Scholarship.
- A. Baert and D. Poister. 2015. Chemical Signaling Between Algae Species in a Wisconsin River. Undergraduate Research Forum.
- M. Doughman and D. Poister. 2017. Carotenoid Concentrations in Senescent Norway Maple leaves. Undergraduate Research Forum.
- C. Hetzel, and D. Poister. 2018. Identification of an Unknown Carotenoid in Norway Maple Leaves. Undergraduate Research Forum.

Recent Religion and Science Outreach Presentations:

Date	Organization/Location	Series	Title
Nov. 12, 2015	St. Norbert Abbey	Norbertine Order Chapter Meeting	Climate Change Science and <i>Laudato Si'</i>
Jan. 21, 2016	Fox Valley Living Justice Network, Appleton		The Science of Climate Change
Apr. 20, 2016	Charter for Compassion, Webinar	Earth Week Events	The Science of Climate Change
Oct. 17, 2016	Mosquito Hill Nature Center, New London	Third Thursday Lecture Series	The Science of Climate Change
Oct. 12, 2016	Norbertine Center for Spirituality	Conrad J. Kratz, O. Praem. Abbey Lecture Series	Integrating Science and Religion
Oct. 18 and 20, 2016	St. Norbert College	Catholic Intellectual Tradition Lecture Series	The Science of Climate Change
Feb. 6 and 8, 2017	St. Norbert College	Catholic Intellectual Tradition Lecture Series	Answering the Call of <i>Laudato Si'</i> : Science and the Common Good
Apr. 20, 2017	St. Norbert College	Donum Ipsum	Science and Religion Panel Discussion
May 21, 2017	The Richard Mauthe Center, University of Wisconsin - Green Bay	Green Bay Area Unitarian Universalist Fellowship	Evolution of Human Altruism
July 14, 2017	Norbertine Associates	Fourth National Gathering	God, Love, and Evolution Moving Forward
Sept. 14, 2017	Spirituality in Retirement: St. Anne's Episcopal, De Pere, WI	Spiret Forum	Human Altruism and the God Who is Being Born
Apr. 27 - 28, 2018	Daylesford Abbey, Paoli, PA	Norbertine Associates Retreat	Science and Spiritual Growth
June 19, 2018	St. Norbert College	6 th Annual Alumni Seminar	Science and Religion Moving Forward
February 13, 2019	Resurrection Parish, Allouez, WI	Generations of Disciples	The Parable of the Good Samaritan: Science and Faith
October 17, 2019	St. Norbert Abbey, De Pere, WI	Conrad J. Kratz Abbey Lecture Series	God, Evolution, and Human Progress
November 2, 2022	St. Norbert College	Killeen Chair Discussion Panel	Climate Justice
February 23, 2023	St. Norbert College	MLK - Beloved Community Week	King's Revolutionary/ Evolutionary Dream