

## **Diana M. Dalbotten**

### *Curriculum Vitae*

St. Anthony Falls Laboratory, University of Minnesota

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### **PROFESSIONAL PREPARATION**

Ph.D., 2000      University of Minnesota  
*Doctor of Philosophy in History*

M.A., 1994      University of Minnesota  
*Master of Arts in History*

B.A., 1988      University of Minnesota  
*Bachelor of Arts in History*

### **APPOINTMENTS**

2012-present    Director of Diversity and Broader Impacts  
St. Anthony Falls Laboratory, University of Minnesota

2001-2012      Director of Diversity and Broader Impacts  
National Center for Earth-surface Dynamics  
University of Minnesota

2000-2001      Education and Public Outreach Coordinator  
Department of Civil Engineering, University of Minnesota

### **COMMUNITY ENGAGED SCHOLARSHIP**

2007-present    Founding Member and Director, the Geoscience Alliance. *The Geoscience Alliance is a national alliance for broadening participation of Native Americans in the Geosciences. It has been in existence for 10 years, has more than 300 active members, and will have its 4<sup>th</sup> National Conference in 2019 with funding from the National Science Foundation.*

2015-present    Advisor, Earth Science Major, Leech Lake Tribal and Community College (LLTC). *Currently collaborating with LLTC to develop a major in Earth System Science and a 2+2 program with University of Minnesota, Duluth that will allow students to complete a 4-year degree via online and hybrid technologies.*

2010-present    Advisor, Hydrology Major, Salish Kootenai College (SKC). *Collaborated with SKC via the National Center for Earth-surface Dynamics Faculty-to-Faculty program to support development of 2-yr and 4-yr Hydrology degrees. First geoscience degree at a tribal college in the U.S.*

2002-present    Multiple Roles, Community collaboration between Fond du Lac Band of Lake Superior Chippewa and University of Minnesota on Wild Rice. *Research on wild rice begun as outreach project to K-12 students with University of Minnesota Lacustrine Core Facility (LacCore). Developed into Research Experience for Undergraduates project. Became a research collaboration between FDL and UMN. Currently collaborating in a Grand Challenge project funded by UMN.*

## PUBLICATIONS

1. Matson, L.; Ng, G-H. C.; Dockry, M.; Nyblade, M.; King, H.J.; Bellcourt, M.; Bloomquist, J.; Bunting, P.; Chapman, E.; **Dalbotten, D.**; Davenport, M.A.; Diver, K.; Duquain, M.; Graveen, W.; Hagsten, K.; Hedin, K.; Howard, S.; Howes, T.; Johnson, J.; Kesner, S.; Kojola, E.; LaBine, R.; Larkin, D.; Montano, M.; Moore, S.; Myrbo, A.; Northbird, M.; Porter, M.; Robinson, R.; Santelli, C.; Schmitter, R.; Shimek, R.; Schuldt, N.; Smart, A.; Strong, D.; Torgeson, J.; Vogt, D.; Waheed, A. Transforming research and relationships through collaborative tribal-university partnerships on Manoomin (wild rice), *Environmental Science & Policy*, Volume 115, 2021, Pages 108-115, ISSN 1462-9011, <https://doi.org/10.1016/j.envsci.2020.10.010>. (<http://www.sciencedirect.com/science/article/pii/S1462901120313599>)
2. Haaker, R. and **Dalbotten, D.** “What is an REU?” Chapter in: *GEO REU Handbook: A Guide for Running Inclusive and Engaging Geoscience Research Internship Programs*. 1 ed. Sloan V, Haacker R, editors. Boulder, CO: National Center for Atmospheric Research; 2020. Chapter 1; p.1-8. 177p.
3. **Dalbotten, D.** and Sloan V. “Recruiting Students for Your REU,” Chapter in: *GEO REU Handbook: A Guide for Running Inclusive and Engaging Geoscience Research Internship Programs*. 1 ed. Sloan V, Haacker R, editors. Boulder, CO: National Center for Atmospheric Research; 2020. Chapter 3; p.23-30. 177p.
4. **Dalbotten, D.**; Noriega, G.; and Haacker, R. “Logistics and Student Handbooks,” Chapter in: *GEO REU Handbook: A Guide for Running Inclusive and Engaging Geoscience Research Internship Programs*. 1 ed. Sloan V, Haacker R, editors. Boulder, CO: National Center for Atmospheric Research; 2020. Chapter 5; p.45-51. 177p.
5. Noriega, G.; Barnes, T.; **Dalbotten, D.**; and LaDue, D. “Team Building and Cohort Development,” Chapter in: *GEO REU Handbook: A Guide for Running Inclusive and Engaging Geoscience Research Internship Programs*. 1 ed. Sloan V, Haacker R, editors. Boulder, CO: National Center for Atmospheric Research; 2020. Chapter 7; p.67-76. 177p.
6. Bruno, B.; Haacker, R.; **Dalbotten, D.**; and Sloan, V. Safety . In: *GEO REU Handbook: A Guide for Running Inclusive and Engaging Geoscience Research Internship Programs*. 1 ed. Sloan V, Haacker R, editors. Boulder, CO: National Center for Atmospheric Research; 2020. Chapter 10; p.99-112. 177p.
7. Gates, A. E; McNeal, K.; Riggs, E.; Sullivan, S.; **Dalbotten, D.**, New developments in diversity and inclusiveness in geosciences, *Journal of Geoscience Education*; Bellingham Vol. 67, Iss. 4, (Nov 2019): 285-286. DOI:10.1080/10899995.2019.1671713
8. Noyszewski, A. K., Anderson, N. O., Smith, A. G., Kilian, A., **Dalbotten, D.**, Ito, E., Timm, A., & Pellerin, H. (2019). Challenges of Establishing Native versus Exotic Status of Herbarium Specimens, *HortScience : a publication of the American Society for Horticultural Science*, 29(5), 549-553. doi: <https://doi.org/10.21273/HORTTECH04313-19>.
9. Geraghty-Ward, E., **Dalbotten, D.M.**, Bueno-Watts, N., Berthelote, A., Using place-based, community-inspired research to broaden participation in the geosciences, *GSA Today*, Vol. 8, No. 8, August 2018.
10. **Dalbotten, D.M.**, Bueno Watts, N., and Berthelote, A., Thoughts on the Geoscience Alliance on National Native American Heritage Month, *AGU From the Prow*, Nov. 17, 2017.

11. **Dalbotten, D.M.**, Ito, E., Eriksson, S., Pellerin, H., Greensky, L., and Kowalczak, C., *gidakiimanaanawigamig's Circle of Learning: A Model for Partnership between Tribal Community and Research University*, International Journal of Partnership Studies, Vol. 4, No. 3, Fall 2017.
12. **Dalbotten, D.M.**, Hamilton, P. and Roehrig, G. (eds.), Future Earth: Advancing Civic Understanding of the Anthropocene, American Geophysical Union (AGU) Monograph, Hoboken: John Wiley and Sons, Inc., June 2014.
13. **Dalbotten, D. M.**, Haaker-Santos, R., and Zurn-Burkheimer, S., "New Voices: The Role of Undergraduate Geoscience Research in Supporting Alternative Perspectives on the Anthropocene," chapter in Dalbotten, D. M., Hamilton, P. and Roehrig, G. (eds), Future Earth, Advancing Civic Understanding of the Anthropocene, American Geophysical Union (AGU) Monograph, Hoboken: John Wiley and Sons, Inc., June 2014.
14. Bueno-Watts, N., Smythe, W., Geraghty-Ward, E., **Dalbotten, D.**, Green, V., Tano, M., and Berthelote, A., "Geoscience Alliance: Building Capacity to Use Science for Sovereignty in Native Communities," chapter in Dalbotten, D. M., Hamilton, P. and Roehrig, G. (eds), Future Earth, Advancing Civic Understanding of the Anthropocene, American Geophysical Union (AGU) Monograph, Hoboken: John Wiley and Sons, Inc., June 2014.
15. **Dalbotten, D.M.**, Ito, E., Myrbo, A., Pellerin, H., Greensky, L., Howes, T, Wold, A., and McEathron, M., NSF-OEDG Manoomin Science Camp Project: A Model for Engaging American Indian Students in Science, Technology, Engineering, and Mathematics, Journal of Geoscience Education, Special Issue on Place-Based Education, May 2014, Vol. 62, No. 2, pp. 227-243.
16. **Dalbotten, D.**, First tribal college or university to offer hydrology degree program, Eos, Transactions American Geophysical Union 93 (30), 291-291, 2012.
17. Roehrig, G., Campbell, K., **Dalbotten, D.**, and Varma, K., CYCLES: A culturally-relevant approach to climate change education in native communities, Journal of Curriculum and Instruction 6 (1), 73-89, 2012.

## HONORS AND AWARDS

1. **AGU Thriving Earth Exchange Fellow**, 2020.
2. **Community Engaged Scholar Award**, University of Minnesota, 2020
3. **Institute on the Environment** (University of Minnesota) Fellow, 2019.
4. **Presidents' Award for Excellence in Science, Mathematics and Engineering Mentoring**, 2014. Institutional Award accepted on behalf of the National Center for Earth-surface Dynamics.
5. **Fellow, Geological Society of America**, Elected in recognition of distinguished contributions to the geosciences, 2018
6. **Community Engaged Scholar Award**, University of Minnesota, College of Science and Engineering, 2018

## FUNDED RESEARCH PROJECTS

External Sources	Award Dates
<p>1. <b>Co-Principal Investigator</b> PI Karletta Chief, University of Arizona, Tucson National Science Foundation, Human Resources Division: <b>Collaborative Research: NSF INCLUDES Alliance: Broadening Career Pathways in Food, Energy, and Water Systems with and within Native American Communities (Native FEWS Alliance)</b> NSF HRD 2120035. Amount \$875,957</p>	8/1/21-7/1/26
<p>2. <b>Senior Personnel</b> PI Sarah Hobbie, University of Minnesota National Science Foundation, Division of Environmental Biology, <b>LTERR: The Changing Nature of Cities: Ecological and Social Dynamics in the Minneapolis-St. Paul Urban Ecosystem</b> NSF-DEB 1242531. Amount: \$7,126,200</p>	
<p>3. <b>Co-Principal Investigator</b> PI Bhaskar Upadhyay, University of Minnesota National Science Foundation, Division of Research on Learning (DRL): <b>Water Values--Advancing Informal STEM Learning through Native Voices, Planetariums, and Reciprocal Collaboration</b> NSF DRL 1906654. Amount: \$296,092</p>	9/1/19-8/31/21
<p>4. <b>Co-Principal Investigator</b> PI Shashi Shekhar, University of Minnesota National Science Foundation, Medium: Investigating Spatial-Temporal Informatics for Transportation Science NSF 1909019. Amount \$1,200,000</p>	7/1/19-6/31/23
<p>5. <b>Senior Personnel</b> PI Brandy Toner, University of Minnesota National Science Foundation, Division of Earth Sciences (EAR): <b>Collaborative research: Banded together: modern water-microbe-mineral feedbacks in the deep Archean lithosphere</b> Amount: \$1,023,256</p>	9/15/18-8/31/23
<p>6. <b>Senior Personnel</b> PI: Jessica Kozarek, University of Minnesota National Science Foundation, Division of Earth Sciences (EAR): <b>Collaborative Research: Linking turbulent flow dynamics to meandering river migration</b> Amount: \$294,550</p>	8/1/18-7/31/21
<p>7. <b>Principal Investigator</b> Co-PI Antony Berthelote, Salish Kootenai College National Science Foundation <i>Research Experiences for Undergraduates Site (REU) program</i> <b>Research Experiences for Undergraduates Site on Sustainable Land and Water Resources—A Community-Based Participatory Research Experience for Undergraduates</b> NSF EAR 1757451. Amount: \$594,889</p>	6/01/18-5/31/2021
<p>8. <b>Senior Personnel</b> PI: Jennifer Frisch, University of Minnesota, Duluth, Department of Education NOAA B-Wet program <b>Watershed Stories: Learners Exploring their Place in the Ecosystem</b> Amount: \$55,000</p>	1/1/18-06/31/19

9. **Co-Principal Investigator** **9/1/17-8/31/2020**  
 PI: Shashi Shekhar, University of Minnesota, Computer Science Department.  
 Co-PIs Anu Ramaswami, Jason Cao, Frank Duoma, Robert Johns, University of Minnesota  
 National Science Foundation *Smart & Connected Cities* (SCC) program ***Connecting the Smart-City Paradigm with a Sustainable Urban Infrastructure Systems Framework to Advance Equity in Communities***  
 NSF S&CC IRG 1737633. Amount: \$2,500,000
10. **Senior Personnel** **8/1/17-7/31/2019**  
 PI: Anu Ramaswami, University of Minnesota, Humphrey School of Public Affairs  
 Co-PIs Yingling Fan, Armistead Russell, Benjamin Orlove, Patricia Culligan  
 National Science Foundation *Chemical, Bioengineering, Environmental, and Transport Systems* (CBET) program ***SRN: Integrated Urban Infrastructure Solutions for Environmentally Sustainable, Healthy and Livable Cities.***  
 NSF CBET 1444745. Amount: \$12,000,000
11. **Principal Investigator** **8/1/17-8/31/2019**  
 Co-PIs Antony Berthelote, Salish Kootenai College; Nievita Bueno Watts, Univ. of Northern Iowa  
 National Science Foundation *Education and Human Resources, Tribal College and Universities Program, Integrative and Collaborative Research Program* (EHR, TCUP, ICER) ***Geoscience Alliance Research Coordination Network--Broadening Participation of Native Americans in the Geosciences***  
 NSF EAR 1659963. Amount: \$200,000
12. **Principal Investigator** **5/20/15-6/4/2017**  
 Co-PI Antony Berthelote, Salish Kootenai College  
 National Science Foundation *Research Experiences for Undergraduates Site* (REU) program ***Research Experiences for Undergraduates Site on Sustainable Land and Water Resources—A Community-Based Participatory Research Experience for Undergraduates***  
 NSF EAR 1461006. Amount: \$886,387
13. **Co-Principal Investigator** **10/1/15-9/30/2020**  
 PI: Howard Mooers, University of Minnesota, Duluth, Earth and Environmental Sciences  
 Co-PIs Rachel Breckenridge, Univ. of Minnesota, Duluth and Diana Dalbotten, Univ. of Minnesota  
 National Science Foundation *Improving Undergraduate STEM Education Geopaths* (IUSE) program ***Collaborative Research: A Community of Nature—Development of a network promoting the recruitment and retention of American Indians in the Geosciences with emphasis on Tribal Resource Management*** (Collaborative with Leech Lake Tribal College, Melinda Neville, PI)  
 NSF HRD 1540661. Amount: \$290,743
14. **Co-Principal Investigator** **8/17/14-8/31/2018**  
 PI: Emi Ito, University of Minnesota, Department of Earth Sciences  
 Co-PI Diana Dalbotten, University of Minnesota  
 National Science Foundation *Advancing Informal STEM Learning* (AISL) program ***Niizho-Bimaadiziwin (Walking in Two Worlds)—Preparing Future Native Scientists, Expanding Research Ethics, and Learning from Tribal Resource***  
 NSF DRL 1422917. Amount: \$296,856
15. **Co-Principal Investigator** **9/12/13-8/31/2017**  
 PI: Antony Berthelote, Salish Kootenai College, Hydrology Department  
 Co-PIs Shandin Pete, Salish Kootenai College and Diana Dalbotten, University of Minnesota

National Science Foundation *Transforming Undergraduate Education in STEM* (TUES) program  
***Transforming Indigenous Geoscience Education and Research (TIGER)***  
NSF DUE 1323692. Amount: \$357,122

16. **Co-Principal Investigator** **8/31/13-3/31/2017**  
PI: Richard Hooper, Consortium of Universities for the Advancement of Hydrologic Sciences, Inc. (CUAHSI)  
Co-PIs Alva Couch, Tufts University; Diana Dalbotten, University of Minnesota; and Antony Berthelote, Salish Kootenai College  
National Science Foundation, *Hydrologic Sciences, Instrumentation and Facilities, Facilities Support: The CUAHSI Water Data Center*  
NSF EAR 1248152. Amount: \$2,685,070
17. **Senior Personnel** **4/1/13-3/31/2018**  
PI: Chris Paola, University of Minnesota, Department of Earth Sciences  
Co-PIs Efi Foufoula Georgiou and Vaughan Voller, University of Minnesota; and Patrick Hamilton, Science Museum of Minnesota  
National Science Foundation *Education and Human Resources, Hydrologic Sciences, Geobiology and Low Temperature Geochemistry, Geomorphology and Land Use Dynamics, Sedimentary Geology and Paleobiology, National Center for Earth-surface Dynamics II--The Past and Future Earth*  
NSF EAR 1246761. Amount: \$2,999,993
18. **Principal Investigator** **6/7/12-4/30/15**  
Co-PI Antony Berthelote, Salish Kootenai College  
National Science Foundation *Research Experience for Undergraduates Site (REU) program, Research Experience for Undergraduates on Sustainable Land and Water Resources*  
NSF EAR 1156984. Amount: \$717,280
19. **Principal Investigator** **9/1/12-8/31/2013**  
Co-PI Antony Berthelote, Salish Kootenai College  
National Science Foundation *Research Experience for Undergraduates Site (REU) program Research Experience for Undergraduates on Sustainable Land and Water Resources, Supplement-Building Research Capacity at Fond du Lac Resource Management*  
NSF EAR 1156984. Amount: \$42,325
20. **Principal Investigator** **2/15/12-1/31/13**  
Co-PI Antony Berthelote, Salish Kootenai College  
National Science Foundation *Geoscience Education (GEOED) program, The Second Geoscience Alliance National Conference in spring 2012 at Salish Kootenai College in Pablo, Montana*  
NSF GEO 1214555. Amount: \$37,040
21. **Principal Investigator** **5/1/12-4/30/13**  
Co-PI Karen Campbell, University of Minnesota  
National Science Foundation *Research Experience for Undergraduates Site (REU) program Research Experience for Undergraduates for Sustainable Land and Water Resources*  
NSF EAR 1063095. Amount: \$130,000
22. **Co-Principal Investigator** **1/1/11-6/30/14**  
PI: Gillian Roehrig, University of Minnesota, STEM Education Center  
Co-PIs **Diana Dalbotten** and Karen Campbell, University of Minnesota  
NASA *Global Climate Change Education (GCCE) program, CYCLES: Teachers Discovering Climate Change from a Native Perspective*  
NASA NNX10AT53A. Amount: \$679,676

23. **Co-Principal Investigator** **1/1/11-6/30/14**  
 PI: Emi Ito, University of Minnesota, Department of Earth Sciences  
 Co-PIs **Diana Dalbotten** and Amy Myrbo, University of Minnesota  
 National Science Foundation *Opportunities for Enhancing Diversity in the Geosciences* (OEDG)  
**Collaborative Project: Track 2: manoomin, investigating the past, present, and future conditions of wild rice lakes on the Fond du Lac Band of Lake Superior Chippewa**  
 NSF GEO 0914694. Amount: \$828,917
24. **Principal Investigator** **9/13/9-1/31/11**  
 National Science Foundation *Opportunities for Enhancing Diversity in the Geosciences* (OEDG)  
 Planning Grant, **OEDG Planning Grant: Alliance for Broadening Participation of Native Americans in the Geosciences Conference**  
 NSF GEO 0939753. Amount: \$39,770
25. **Principal Investigator** **5/1/8-4/30/11**  
 Co-PI Kimberly Hill, University of Minnesota  
 National Science Foundation Research Experience for Undergraduates Site (REU) program,  
**Research Experience for Undergraduates on River and Coastal Restoration**  
 NSF EAR 0755346. Amount: \$265,050
26. **Senior Personnel** **1/1/7-7/31/13**  
 PI: Efi Foufoula-Georgiou, University of Minnesota, Department of Civil Engineering  
 Co-PIs Chris Paola and Gary Parker, University of Minnesota  
 National Science Foundation *Science and Technology Center* (STC) program  
**STC: The National Center for Earth-surface Dynamics**  
 NSF EAR 0120914. Amount: \$17,975,057
27. **Senior Personnel** **1/1/2-12/31/6**  
 PI: Gary Parker, University of Minnesota, Department of Civil Engineering  
 Co-PIs Efi Foufoula Georgiou and Chris Paola, University of Minnesota  
 National Science Foundation *Science and Technology Center* (STC) program, **STC: The National Center for Earth-surface Dynamics**  
 NSF EAR 0120914. Amount: \$19,271,727
- Internal University of Minnesota**
28. **Collaborator** **2017-2019**  
 PIs: Kate Derickson, Susan Galatowitsch, Sarah Hobbie, Bonnie Keeler, Stephen Polasky, University of Minnesota  
 University of Minnesota, *Grand Challenge Award, Water and Equity: Co-developing Research and Engaged Approaches to Transforming Environments (WE CREATE)*  
 Amount: \$720,000
29. **Collaborator** **2017-2019**  
 Co-PIs: Crystal Ng, Mark Bellcourt, Mae Davenport, Daniel Larkin, Amy Myrbo, Mike Dockry, University of Minnesota  
 University of Minnesota, *Grand Challenge Award, Wild Rice in Minnesota and the Great Lakes Region: A Flagship for Environmental Preservation and Indigenous Resource Sovereignty*  
 Amount: \$720,00.

### 30. Principal Investigator

2016-2018

Co-PIs: Stacey Stark, Jennifer Fritsch, University of Minnesota, Duluth; Jonee Brigham, University of Minnesota

University of Minnesota, *MNDRIVE On the Horizon, Spatial Technologies in Community Environmental Management*

Amount: \$29,742.

## CONFERENCE PRESENTATIONS, ORGANIZED SESSIONS, AND INVITED TALKS

### 2020

Dalbotten, D. Update on the EFI Diversity and Inclusion Working Group. Part of the AGU Town Hall: Introducing the NEON Ecological Forecasting Challenge hosted by the Ecological Forecasting Initiative Research Coordination Network. American Geophysical Union Fall Meeting B109-0012, December 1-17, 2020, online.

Dalbotten, D.; Bueno Watts, N.; Ward, E.G. and Berthelote, A. The REU on Sustainable Land and Water Resources 2020: a (Virtual) Tribal and Community-Based Participatory Research Experience. American Geophysical Union Fall Meeting ED051-0007, December 1-17, 2020, online.

Nyblade, M.; King, H. J.; Aiona, M.; Bellcourt, M.; Bloomquist, J.; Bunting, P.; Chapman, E.; Colvin, J.; Diver, K.; Dalbotten, D.; Dockry, M.; Duquain, M.; Graveen, J.; Hagstren, K.; Hedin, K.; Howard, S.; Howes, T.; Johnson, J.; Kesner, S.; Kojola, E.; LaBine, R.; Larkin, D.; Matson, L.; Montano, M.; Moore, S.; Myrbo, A.; Ng, G.-H. C.; Northbird, M.; Robinson, R.; Porter, M.; Santelli, C.; Schmitter, R.; Schuldt, N.; Shimek, R.; Smart, A.; Strong, D.; Tallas, N.; Tran, T.; Torgeson, J.; Torres, S.; Vogt, D. and Waheed, A. First, we must consider Manoomin (*Pisq*, wild rice, *Zizania palustris*): Emergent understandings of meaningful research and relationships in tribal-university partnership centering Manoomin. American Geophysical Union Fall Meeting SY020-0011, December 1-17, 2020, online.

Dalbotten, D. (invited). The structure of the REU on Sustainable Land and Water Resources – an alternative model of REU program. REU GEO Virtual Workshop on Structuring Your REU, Creative Ideas.

Dalbotten, D. Invited panel member. Advancing a Systems Approach to Studying the Earth: A Strategy for the National Science Foundation Workshop on Education and Workforce for Earth Systems Science: Framing Session, November 13, 2020, online.

Bueno Watts, N.; **Dalbotten, D.**; Watts, E. G. and Berthelote, A. Methods for Incorporating Identity, Place, and Culture into a “Virtual” Undergraduate Research Experience: The REU on Sustainable Land and Water Resources During the Covid19 Pandemic. Geological Society of America Fall Meeting, October 26-30, 2020, online meeting, Geological Society of America Abstracts with Programs. Vol 52, No. 6, 2020. doi: 10.1130/abs/2020AM-359255. Available online: <https://gsa2020.e-attend.com/confex?sessionCode=169-5&user=dianad@umn.edu>

Nyblade, M., Bloomquist, J.; Bunting, P., Caldwell, T.; Chapman, E.; Charwood, L.; Colvin, J.; **Dalbotten, D.**; Davenport, M.; Dockry, M.; Duquain, M.; Graveen, J.; Hedin, K.; Howes, R.; Howes, T.; Kesner, S.; King, H.J.; Kuester, B.; Larkin, D.; Matson, L.; Mullen, B.; Ng., G.-H. C.; O’hara, P., Santelli, C., Schmitter, R.; Schuldt, N.; Torgeson, J.; Vogt, D.; Waheed, A.; Weiss, C.; and White, L. First we should consider manoomin (wild rice): Co-producing interdisciplinary ecological knowledge and co-protecting Indigenous resource sovereignty. Geological Society of American North Central

Section 54<sup>th</sup> Annual Meeting, May 18-19, 2020, Duluth, MN. Geological Society of America Abstracts with Programs. Vol. 52, No. 5, ISSN 0016-7592. doi: 10.1130/abs/2020NC-347821

Neville, M.; Moores, H.; Breckenridge, R.; and **Dalbotten, D.** Indigenizing Geoscience Curricula at Leech Lake Tribal College. Geological Society of American North Central Section 54th Annual Meeting, May 18-19, 2020, Duluth, MN. Geological Society of America Abstracts with Programs. Vol. 52, No. 5, ISSN 0016-7592. doi: 10.1130/abs/2020NC-347850

Moores, H.; Breckenridge, R.; Neville, M.; and **Dalbotten, D.** Institutional Barriers to the Establishment of 2+2 Program in Tribal Resources for Remote Delivery to Tribal Colleges. Geological Society of American North Central Section 54th Annual Meeting, May 18-19, 2020, Duluth, MN. Geological Society of America Abstracts with Programs. Vol. 52, No. 5, ISSN 0016-7592. doi: 10.1130/abs/2020NC-348181

**Dalbotten, D.** Update on Diversity and Inclusion Working Group. NSF-sponsored Ecological Forecasting Initiative Research Coordination Network (EFI-RCN) Virtual Workshop, "Ecological Forecasting Initiative 2020: Coordinating the NEON-enabled forecasting challenge". May 12-13, 2020 (online meeting, available at: <https://www.youtube.com/watch?v=US19GNEz8-A>).

## 2019

Bueno Watts, N., Berthelote, A., and **Dalbotten, D.M.** Geoscience Alliance: Report on a Decade of Success of a Native American Mentoring Organization, AGU Fall Meeting ED33A-02, December 9-13, 2019, San Francisco, CA, 2019.

Ng., Crystal et al., Decentering Western Science through Collaborative Tribal-University Research on Manoomin/ Psin/Manōmaeh (Wild Rice), AGU Fall Meeting PA41F-1169, December 9-13, 2019, San Francisco, CA.

Sloan, V., Bruno, B., **Dalbotten, D.M.**, and Haacker, R. Hot off the Press: Preview of a Handbook on Running Research Experiences for Undergraduates (REU) in the Geosciences, AGU Fall Meeting ED23E-11, December 9-13, 2019, San Francisco, CA.

**Dalbotten, D.M.**, Berthelote, A., and Bueno Watts, N., The Research Experience for Undergraduates on Sustainable Land and Water Resources—Undergraduate Research Incorporating Community-Based Research, GSA National Meeting Paper 226-13, September 22-25, 2019, Phoenix, AZ.

**Dalbotten, D.M.** (Invited), Strategic Planning for Diversity--Effective Strategies for Broadening Participation in the Environmental Sciences, Ecological Forecasting Initiative Conference 2019, Washington, D.C.

## 2018

**Dalbotten, D.M.**, Neville, M., Cloud, A., Castillo, V., Eagle, C., Miller, R., Mooers, H., and Breckenridge, R. (Invited), Azhegiwe Bagwajaya'ii—(He/She Returns to Nature)—Implementing Earth Systems Science at Leech Lake Tribal College (Invited Presentation), GSA, Paper 274-4, November 4-7, 2018, Indianapolis, IN.

## 2017

**Dalbotten, D.M.**, Berthelote, A., and Bueno Watts, N., Networking for Success Diversity Recruiting: Creating a Highly Diverse Research Experiences for Undergraduates Program by Networking with Mentors, Faculty, and Students. AGU Fall Meeting ED21C-06, December 8-16, 2017, New Orleans, LA.

**Dalbotten, D.M.**, Berthelote, A., Bueno Watts, N., and Ward, E.G., The Research Experience for Undergraduates on Sustainable Land and Water Resources and the Geoscience Alliance Network—Working Hand in Hand to Promote Broadening Participation in the Geosciences. GSA, Paper 233-1, October 22-25, 2017, Seattle, WA.

**Dalbotten, D.M.**, Research Experiences for Undergraduates, American Indian Science and Engineering Society Region V Meeting, March 31, 2017, Brookings, SD.

## 2016

Ito, E., Kowalczak, C., **Dalbotten, D.M.**, Pellerin, H., and Greensky, L., *gidakiimanaaniwigamig*, An Informal Science Camp for Mixed Age American Indian Students. AGU Fall Meeting, ED23F-04, Dec. 11-15, 2016, San Francisco, CA.

Moosavi, S., Semken, S., and **Dalbotten, D.M.** (Session Chairs). Place as an Organizing Principle in Geoscience Education. GSA Session T83, Sept. 25-28, 2016, Denver, CO.

**Dalbotten, D.M.** and Bueno Watts, N., and Ward, E.G. A Geoscience Research Opportunity that is Focused on Community-based Participatory Research on Native American Reservations—The REU on Sustainable Land and Water Resources. GSA, Paper 220-11, Sept. 25-28, 2016, Denver, CO.

**Dalbotten, D.M.** Programs Supporting Native American STEM Learning Created by the National Center for Earth-surface Dynamics. Earth Educator's Rendezvous, July 18-22, 2016, Madison, WI.

## 2015

Ito, E., Kowalczak, C., and **Dalbotten, D.M.** *gidakiimanaaniwigamig* (*gidaa*) Science Camps for 3-12 Students at the Fond du Lac Band of Lake Superior Chippewa. AGU Fall Meeting, ED23B-0861, Dec. 14-18, 2015, San Francisco, CA.

**Dalbotten, D.M.** and Goesling, E. (Session Chairs). Using Place-Based and/or Data Driven Approaches in Geoscience Undergraduate Teaching and Research. GSA Session T91, Nov. 1-4, 2015, Baltimore, MD.

**Dalbotten, D.M.**, Bueno Watts, N., Berthelote, A., and Eriksson, S. Geoscience Alliance 3: A Changing Climate's Effect on Rivers, Estuaries, Oceans, First Foods, and Tribal Health. GSA, Paper 90-1, Nov. 1-5, 2015, Baltimore, MD.

Bueno Watts, N., Berthelote, A., Lichtenberg, J., Patrick, D., and **Dalbotten, D.M.**, Sustainable Land and Water Resources REU: Community-Inspired Research Meets Open Inquiry. GSA, Paper 90-4, Nov. 1-5, 2015, Baltimore, MD.

**Dalbotten, D.M.** and Geosling, E. Place-Based, Data-Driven Education about Water. GSA, Poster 294-3, Nov. 1-5, 2015, Baltimore, MD.

**Dalbotten, D.M.**, Geosling, E. and Bueno Watts, N. (Session Chairs). Watching Water: Using Data to Monitor, Model, and Research Earth Systems, SACNAS National Meeting, Oct. 27-31, 2015, Washington, D.C.

**Dalbotten, D.M.**, Find Data Resources for Water-Related Research Projects, SACNAS, October 29-31, 2015, Washington, D.C.

**Dalbotten, D.M.**, Geosling, E. and Pollak, J. A Manual for Place-Based, Data-Driven Teaching, Earth Educator's Rendezvous, July 13-17, 2015, Boulder, CO.

## 2014

Arrigo, J., **Dalbotten, D.M.**, Hooper, R., Pollak, J. and Geosling, E. Integrating Place-Based Science and Data into Hydrology and Geoscience Education Using the CUAHSI Water Data Center Resources. AGU Fall Meeting, Dec. 15-19, 2014, San Francisco, CA.

Berthelote, A., Ward, E.G., **Dalbotten, D.M.**, Broadening Participation in Research Experiences for Undergraduates (REU) Programs: An Evaluation of the Team Research Model for Undergraduate Research Experiences, AGU Fall Meeting, ED44A-06, Dec. 15-19, 2014, San Francisco, CA.

It, E. and **Dalbotten, D.M.** Meaningful, Authentic, and Place-Based Informal Science Education for 6-12 Students, AGU Fall Meeting, ED43D-05, Dec. 15-19, 2014, San Francisco, CA.

**Dalbotten, D.M.** and Berthelote, A., The Geoscience Alliance—A National Network for Broadening Participation of Native Americans in the Geosciences, AGU Fall Meeting, ED31I-07. Dec. 15-19, 2014, San Francisco, CA.

Bueno Watts, N., **Dalbotten, D.M.**, and Harbor, J. (Session Chairs). Geoscience Alliance: Building Collaborative Partnerships That Strengthen Earth-Science Research Disciplines, GSA Session T72, Oct. 19-22, 2014, Vancouver, BC.

Ito, E., **Dalbotten, D.M.**, Pellerin H., Howes, T., Myrbo, A., and Cakici, H. Making the Most of Place-Based Informal Science Education. GSA, Paper 8-3, Oct. 19-22, 2014, Vancouver, BC.

**Dalbotten, D.M.**, Future Earth: Place-Based Education and Outreach in an Age of Anthropogenic Change. GSA, Paper 153-5, Oct. 19-22, 2014, Vancouver, BC.

Ward, E.G., **Dalbotten, D.M.**, Broadening Participation in Research Experiences for Undergraduates (REU) Programs: An Evaluation of the Team Research Model for Undergraduate Research Experiences. GSA, Paper 153-7, Oct. 19-22, 2014, Vancouver, BC.

## 2013

**Dalbotten, D.M.**, Ward, E.G., Berthelote, A., Ito, E., Myrbo, A., Drake, C. Howes, T. and Woods, P. What Went Wrong (and Right) in my Research for Undergraduates Program this Summer. AGU Fall Meeting ED41E-01, Dec. 9-13, 2013, San Francisco, CA.

**Dalbotten, D.M.**, Bueno Watts, N., Myrbo, A., Zurn Birkhimer, S. (Session Chairs). Geoscience Alliance: Moving Toward Earth Systems Planning for Seven Generations through Broadening the Participation of Native Americans in the Geosciences. GSA Session: T124, Oct. 27-30, 2013, Denver, CO.

Berthelote, A. and **Dalbotten, D.M.**, Geoscience Alliance: Building Capacity to Use Science for Sovereignty in Native Communities. GSA, Paper 124-1, Oct 27-30, 2013, Denver, CO.

**Dalbotten, D.M.**, Berthelote, A., Myrbo, A., to,E. and Howe, T. The Research Experience for Undergraduates on Sustainable Land and Water Resources—An On-Reservation Research Opportunity for Students from all Backgrounds. GSA, Paper 124-5, October 27-30, 2013, Denver, CO.

Ito, E., **Dalbotten, D.M.**, Myrbo, A., Pellerin H., Greensky, L., Howes, T., Drake, C., Woods, P. and Wold, A. NSF-OEDG manoomin Science Camp Project: A Model for Engaging American Indian Students in Science, Technology, Engineering, and Mathematics. GSA. Paper 124-10, Oct. 27-30, 2013, Denver, CO.

**Dalbotten, D.M.** (Invited). The National Center for Earth-surface Dynamics and its Partnerships with Native American Communities. Discovering the Potential for Promoting Broadened Participation in the

Geosciences through Place-Based Geoscience Education and Research, GSA, Paper 124-13, Oct 27-30, 2013, Denver, CO.

**Dalbotten, D.M.**, Campbell, K., Berthelote, A., and Hill, K. Supporting Diversity in Undergraduate Research Programs—Perils and Promise in Creating Teams with Students from a Diversity of Backgrounds, GSA, Poster 147-6, October 27-30, Denver, CO.

## 2012

**Dalbotten, D.M.**, Hill, K., Berthelote, A., Ito, E., Pellerin H., Howes, T. and Myrbo, A. (Invited). Creating a Research Experience for Undergraduates that Meets the Student Halfway: The REU Site on Sustainable Land and Water Resources, AGU Fall Meeting, ED41F-01, Dec. 3-7, 2012, San Francisco, CA.

**Dalbotten, D.M.** and Berthelote, A., The Geoscience Alliance. American Indian/Alaska Native Working Group on Climate Change Spring Meeting, April 23-24, 2012, Tucson, AZ.

## 2011

**Dalbotten, D.M.** The REU on Sustainable Land and Water Resources—Experiences from our First Summer on the Rez, NSF GEO REU Workshop Poster, Oct 26-27, 2011, San Jose, CA.

**Dalbotten, D.M.**, Including Diverse Applicants in your REU, NSF GEO REU Workshop Invited Talk, Oct 26-27, 2011, San Jose, CA.

Campbell, K. Roehrig, G., **Dalbotten, D.M.**, Bhattacharya, D., Nam, Y. Varma, K., Wang, J. Conceptualizing In-Service Secondary School Science Teachers' Knowledge Base for Climate Change Content, AGU Fall Meeting, ED24A-07. Dec. 5-9, 2011, San Francisco, CA.

Myrbo, A., Howes, T., DeFoe, R., **Dalbotten, D.M.**, Pellerin H., McEathron, M., Ito, E., Nanda-gikendaasowin Naawij Gaa-izhiwebakin Manoomini-zaaga'iganiing: Core-based research by Native students on wild rice lakes in northern Minnesota, AGU Fall Meeting, ED23B-0628, Dec. 5-9, 2011, San Francisco, CA.

**Dalbotten, D.M.**, Berthelote, A., Myrbo, A., Ito, E., and Howes, T. A Research Experience for Undergraduates on Sustainable Land and Water Resources, AGU Fall Meeting, ED23B-06252011, Dec. 5-9, 2011, San Francisco, CA.

Nam, Y., Campbell, K., **Dalbotten, D.M.**, Roehrig, G. Cycles: Teachers Discovering Climate Change from a Native Perspective, GSA, Paper 216-6, Oct. 9-12, 2011. Minneapolis, MN.

Howes, T., Myrbo, A., Thompson, R., Drake, C., Woods, P., Locatelli, E.R., Pellerin H., **Dalbotten, D.M.**, Emi Ito, *nanda-gikendaasowin naawij gaa-izhiwebakin manoomini-zaaga'iganiing*: Core-Based Research by Native Students on Wild Rice Lakes in Northern Minnesota, GSA, Paper 234-9, Oct. 9-12, 2011, Minneapolis, MN.

**Dalbotten, D.M.**, Ito, E., Pellerin H., Burger, A., Myrbo, A., Greensky, L., *gidakiimanaaniwigamig* (Our Earth Lodge): Broadening Participation of Native Americans in the Geosciences, AGU Ocean Sciences Meeting, ED45B-07, February 20-24, 2011, Salt Lake City, UT.

## 2010

Ito, E., Myrbo, A., **Dalbotten, D.M.**, Pellerin H., Greensky, L., Howes, T., Wold, A., McEathron, M., and Shanker, V. Manoomin: Place-Based Research with Native American Students on Wild Rice Lakes on

the Fond du Lac Band of Lake Superior Chippewa Reservation, Northern Minnesota. AGU Fall Meeting, Dec. 13-17., 2010, San Francisco, CA.

Myrbo, A., **Dalbotten, D.M.**, Pellerin H., Greensky, L., Howes, T., Ito, E., Wold, A., McEathron, M., and Shanker, V. The First Year of the *manoomin* Project. Place-based Research by Native American Students on Wild Rice Lakes on the Fond du Lac Band of Lake Superior Chippewa Reservation, Northern Minnesota. GSA, Paper 248-10, Oct 31-Nov 3, 2010, Denver, CO.

## 2009

**Dalbotten, D.M.**, Pellerin H., Greensky, L., Burger, A. Geoscience Alliance—A National Alliance for Broadening Participation of Native Americans in the Geosciences, AGU Fall Meeting, Dec. 14-18, 2009, San Francisco, CA.

Pellerin H., **Dalbotten, D.M.**, Greensky, L., Burger, A., Ito, E. Myrbo, A., Beyond NCED—Sustainability and *gidakiimanaanwigamig* (Our Earth Lodge), ED31A-0523, AGU Fall Meeting, Dec. 14-18, 2009, San Francisco, CA.

Jones Whyte, P and **Dalbotten, D.M.** (Invited). Designing Effective Research Experiences for Undergraduates, ED23B-01, AGU Fall Meeting, Dec. 14-18, 2009, San Francisco, CA.

**Dalbotten, D.M.**, Campbell, K., Hill, K., Podolak, P., Bevington, A., Holm, G., Wilcock, P., and Twilley, R., Research Experience for Undergraduates (REU) on River and Coastal Restoration—A Center Approach to Creating a Unique Research Experience for Undergraduates ED23B-06, AGU Fall Meeting, Dec. 14-18, 2009, San Francisco, CA.

## 2008

**Dalbotten, D.M.** The Need for a National Alliance for Broadening Participation of Native Americans in the Geosciences, ED23A-0631, AGU Fall Meeting, Dec. 15-19, 2008, San Francisco, CA.

## 2006

**Dalbotten, D.**, J. Washburne, and W. Uehara, New approaches and tools for understanding the environment at NSF Science and Technology Centers, panel presentation at the SACNAS Annual Conference, Tampa, FL, Oct. 2006.

## 2005

**Dalbotten, D.M.**, Camarena, C., Ruiz, J. Ren, J. Jeff Marr, Hondzo, M., and Power, M.E. Effective Collaboration between a Research Center and a Minority-Serving Institution, AGU 23B-08, Dec. 5-9, 2005, San Francisco, CA.

Campbell, K., Friesen, B., Baumtrog, J., Tal, M., Strong, N., Murphy, T., Morin, P., and **Dalbotten, D.M.**, Building Bridges Between the Research Lab and K-16 Education. Some Examples from a National Laboratory, GSA North Central Section Meeting. Paper 6-10, May 19-20, 2005, Pittsburgh, PA.

## 2004

**Dalbotten, D.M.**, Pellerin H., and Steiner, M.A., *gidakiimanaaniwigamig* (Seek to Know)—A Native Youths Science Immersion Program Created through a Partnership between a Tribal College, a Research Laboratory, and a Science Museum, ED22A-07, AGU Fall Meeting, Dec.13-17, 2004, San Francisco, CA.

Campbell, K., and **Dalbotten, D.M.**, ESTREAMS and EarthScapes: Integrating Teacher Professional Development into a Science and Technology Center, Ed21-C, AGU Fall Meeting, Dec. 13-17, 2004, San Francisco, CA.

## **CO-ADVISING OF UNDERGRADUATE STUDENT RESEARCH**

*2011-2020 Students are participants in the Research Experience for Undergraduates on Sustainable Land and Water Resources. Each student team in the REU is co-advised by Dalbotten, a science advisor, and a graduate student. Dalbotten advises students on personal issues, success in the program, research ethics, and community-based research.*

### **2020**

Mohala Aiona (University of San Francisco), Hope Calegaro (Fond du Lac Tribal and Community College), Floyd Clark (Humboldt State University), Jamie Colvin (Haskell Indian Nations University), Sydney Crockett (Beloit College), Alexis Hernandez (Humboldt State University), Cody Henrikson (Humboldt State University), Sean Hollowell (Ohio University), Madison Lalica (Humboldt State University), Joshua Maldonado (Humboldt State University), Justin McCollum (Salish Kootenai College); Carl Old Person (Salish Kootenai College), Charlie Pereda (Humboldt State University), Caleb Sandoval (Humboldt State University), Nizhoni Tallas (Virginia Tech), Sirena Torres (Humboldt State University), Tyler Tran (University of Minnesota), Christian Trujillo (Humboldt State University), Ezerom Yosief (Humboldt State University)

### **2019**

Arianna Northbird (University of Minnesota, Duluth), Victoria Thrash (University of Iowa, Ames), Jamie Colvin (Haskell Indian Nation University), Gage Clark (Oklahoma State University), William Mathew McCormick (Red Rocks Community College), Jessica Greenhill (Salish Kootenai College), Amanda Berry (Salish Kootenai College), Carl Old Person (Salish Kootenai College), Rustin Bielski (Salish Kootenai College), Brena Mullin (Bemidji State University), Trinaty Caldwell (University of Wisconsin, OshKosh), Andrea Bugyis (Lafayette College), Marica Thomas (University of North Carolina, Pembroke)

### **2018**

LeAnn Zuniga (California State University, Los Angeles), Bruce Liscomb (California Polytechnic San Luis Obispo), Myrna Giraldo Perez (University of Puerto Rico, Mayaguez), Sarah Zurkee (Wichita State University), Rachel Loder (College of Wooster), Kendra Melanson (Clark University), Madisen Dimacale (Villanova University), LeAnn Charwood (Leech Lake Tribal College), Lilah White (University of Minnesota), Susannah Howard (Smith College), Zhaa Zhaa Greensky (Michigan Technological University)

### **2017**

ShiNasha Pete (Salish Kootenai College), Tasha Schneider (University of Minnesota, Morris), Molly Stammer (Salish Kootenai College), Diana Vargas (St. Olaf College), Elizabeth Kekski (Salish Kootenai College), Amanda Berens (Salish Kootenai College), Laura Mackey (McGill University), Olivia Cacciatore (Villanova University), Lizbeth Aguirre (University of California, Santa Cruz), Brandon Blankenship (Sewanee University), Riley Howes (Brown University), Ifunanya Obidi (University of Illinois, Urbana), Amelia Mindich (SUNY Geneseo), Andrea Richter-Sanchez (Florida State University), Kevin Murphy (Carlton College), Brittany Trejo (University of New Mexico), Kathleen Lugo (Florida International University), Alishia Orloff (University of Washington), Mariana Hernandez (University of

Texas, El Paso), Maria Camilla Franco (University of Minnesota), Morgan Schultz (Salish Kootenai College).

## **2016**

Tyler Fouty (Salish Kootenai College), Noah Irby (University of North Dakota), Michaela Long (Arizona State University), Samantha Beck (Colorado School of Mines), Gabriela Martinez (California State University, Los Angeles), Cynthia Mancilla (University of California, Berkeley), LeAnn Charwood (Leech Lake Tribal College), Karina Redding (University of California, Berkeley), Marissa Torrez Castro (San Francisco State University), Ana Alonso (Pennsylvania State University), Alfred Balletto (Salish Kootenai College), Celina Gray (Salish Kootenai College), Jessica Greenhill (Austin Peay State University), Laura Hernandez (Humboldt State University), Bobby Long (Southeastern Oklahoma State University), Stefon Martinez (Salish Kootenai College), Thea Ogema (Leech Lake Tribal College)

## **2015**

Anjelica Johnson (Wheaton College), Megan Forcia (University of Minnesota, Morris), Joel Montana (San Joaquin Delta College), Ana Alonso (Pennsylvania State University), Eric Best (Oakwood University), Jonathan Clyde (Navajo Tech), Patrick Feller (Heritage University), Kenneth Edmo (Salish Kootenai College), Lucia Mercado (Rio Hondo College), Brett Stevenson (Salish Kootenai College), LeAnn Charwood (Leech Lake Tribal College), Maria Roubert (University of Puerto Rico, Pedras), Allison Acosta (Clemson), Chris Jorgensen (University of California, Merced), Marcy Mead (Salish Kootenai College), India Woodruff (Rowan University), Aileen Zebrowski (University of Minnesota), James Dean (Hood College), Mariana Martinez (Arizona State University)

## **2014**

Peter Maas (Leech Lake Tribal College), Royal Rock (Leech Lake Tribal College), Ashley Bennett Bald (Salish Kootenai College), Natasha Myhal (University of Minnesota, Morris), Jenna Davis (University of Florida), Minerva Ringland (Yale University), Loga Fixico (Salish Kootenai College), Patrick Wurster (Salish Kootenai College), Theresa Oehmke (Massachusetts Institute of Technology), Jabari Jones (Carlton College), Cheyenne Sun Eagle (Haskall University), Scott Beauvais (Salish Kootenai College), Dane Zagar (Lake Superior Community College), Francisca Toledo (University of Puerto Rico), Ida Clarke (Black Hills State University), Jordan Hoagland (Los Rios Community College), Emilia Caylor (University of Houston, Downtown), Ricardo Munoz (University of California, Santa Cruz), Jesse Kaneski (Fond du Lac Tribal and Community College)

## **2013**

Wayne Greensky (Itasca Community College), Zachary Kisfalusi (Northwestern University), Alec Keiper (Appalachian State University), Adrienne Warmsley (Humboldt State), Andrew Samsel (Salish Kootenai College), Travis Beauvais (Salish Kootenai College), Loga Fixico (Salish Kootenai College), Chad Reynolds (Salish Kootenai College), Karen Johnson (Lac Courte Oreilles Tribal College), Mariyanna Vasquez Crede (Mount Holyoke College)

## **2012**

Phil Defoe (Fond du Lac Tribal and Community College), Carla Miller (Lac Courte Oreilles Tribal College), Anne Solano (Sitting Bull College), Margo Regier (Beloit College), DeShawn Benn (Upper Iowa University), Edward Lo (Louisiana State University and Agricultural and Technical College), Nathaniel Hawthorne (University of California, Santa Cruz), Jeffrey Kwang (Johns Hopkins), Jacob Feistner (Salish Kootenai College), Isadore Mitchell (Salish Kootenai College), Gary Lesser (Salish

Kootenai College), Sashay Camel (Salish Kootenai College), Ryan Gustafson (Humboldt State University), Cheyenne Moore (Fond du Lac Tribal and Community College)

## **2011**

Sheldon Misquadace (Fond du Lac Tribal and Community College), Mary Pyawasit (St. Scholastica), Lynda Morrison (Leech Lake Tribal College), Matthew Weingart (Salish Kootenai College), Misty Rose Peterson (Fond du Lac Tribal and Community College), Christina Bunch (Northeastern State University, Oklahoma), Cheyenne Moore (Fond du Lac Tribal and Community College), Jacob Feistner (Salish Kootenai College), Vincent Medicine Horse (Salish Kootenai College), Gary Lesser (Salish Kootenai College), Lihong Brown (University of Michigan), Bianca Rodriguez Cardonez (University of Puerto Rico), Ashley Marks (Salish Kootenai College), Clinton Isham (College of Menomonic Nation)

*2007- 2010 Students were participants in the Research Experience for Undergraduates on River and Coastal Restoration. Dalbotten and co-directors Karen Campbell and Kimberly Hill mentored students for 5 of the 10-week experience while they were at the St. Anthony Falls Laboratory, and a science mentor from the National Center for Earth-surface Dynamics mentored the students at their field sites.*

## **2010**

Osvaldo Flores (Northern Arizona University), Lyman Peterson (Humboldt State University), Cindy Tran (Orange Coast College), Clinton Isham (College of Menominee Nation), Cailan Halliday (Humboldt State University), Brandon Pono-Hanson (University of Portland), Cynthia Boshell (Humboldt State University), Alexandra Saldana (Florida International University), Anastasia Piliouros (University of Pennsylvania), Anna Normand (Louisiana State University)

## **2009**

Diana DiLeonardo (Hamilton College), Gabe RiCharde (Wheaton), Jessica Roark (Kansas University), Jordan Thiessen (Carleton University), June Sayers (St. Cloud State University), Kelsey Wefald (College of St. Catherine), Kiernan Folz-Donahue (St. Norbert College), Kimber Moore-Cooks (Fort Valley State University), LaShawna Weeks (College of Wooster), Claire Bailey (San Francisco State University), Gicel Estrada (Loyola University)

## **2008**

Tim Shin (University of Texas, Austin), Michaela Long (Arizona State University), Michael Sekor (Vassar), Leslie Sinak (Lawrence University), Jennifer Keliher-Venegas (Southwestern College, Chula Vista), Jordan Thiessen (Carleton College), June Sayers (St. Cloud State University), Katie Trifone (University of Wisconsin, Platteville), Kim DeVillier (San Francisco State University), Ashley Thomas (Florida International University), Cecelia Palomo (University of Texas, San Antonio), Christine Carter (Bradley University), D. J. Jurk (University of Pennsylvania)

## **2007**

Ramsey Coronado (Arizona State University), Sonya Alcocer (University of Texas, San Antonio), Viviana Berrios (University of Puerto Rico, Mayaguez), Michaela Long (Arizona State University), Angel Santiago (University of Puerto Rico, Mayaguez), Antoinette Abeyta (University of New Mexico), Carl Ekstrand (Illinois Institute of Technology), Daniela Martinez (Johns Hopkins University), Tim Shin (University of Texas, Austin), Sheri Shannon (Penn State University), Robb Haydel (University of Illinois, Urbana-Champaign), Noel Abraham (Santa Monica College)

*2003-2006 Students were participants in the Undergraduate Summer Internship Program of the National Center for Earth-surface Dynamics. Dalbotten co-mentored the students with a science mentor, managing students personal issues and supporting success in the research process.*

## **2006**

Hallie Boyer (Macalester College), Jordan Thiessen (Carlton College), Alexis Feltus (University of Minnesota, Duluth), Angel Santiago (University of Puerto Rico, Mayaguez)

## **2005**

Noel Abraham (Santa Monica College), Frederick Tapaha (Dine College), Aaron Carranza (Iowa State University), Angel Santiago (University of Puerto Rico, Mayaguez)

## **2004**

Edith Moreno (Brown University), Fernando Hernandez (Santa Monica Community College), Kerri Puckett (University of Wyoming), Angel Santiago (University of Puerto Rico, Mayaguez), Daniele Trip (University of Texas)

## **2003**

Viviana Lopez Burgos (University of Puerto, Mayaguez), Marla Torrado (University of Puerto Rico, Piedras), Lesley Querezgue (Louisiana State University), Crystal Lesmeister (University of Wyoming)

## **WORKSHOPS AND MEETINGS ORGANIZED**

1. **Diana Dalbotten** with Ecological Forecasting Initiative Diversity Working Group, Webinar: What Diverse Students Need to Thrive in Data- and Computer-Heavy Settings, November 19, 2020.
2. **Diana Dalbotten**, Arianna Northbird (Univ. of Minnesota, Duluth), Geoscience Alliance Indigenous Retreat on “Resiliency, Knowledge Sharing, and Empowering Indigeneity,” August 7, 2020, a virtual retreat.
3. **Diana Dalbotten**, Nievita Bueno Watts (Humboldt State University), and Antony Berthelote (Salish Kootenai College), Geoscience Alliance Workshop on Data in Indian Country: Data Sovereignty, Social Justice, and Equitable Training Opportunities, February 6-10, 2020, Las Vegas, NV.
4. Anne Hornickel (MN Northstar STEM Alliance, University of Minnesota), Courtney Kowalczak (Fond du Lac Tribal and Community College), **Diana Dalbotten**, 3<sup>rd</sup> NSSI Indigenous Research Retreat, May 22-23, 2019, Cloquet Forestry Center, Cloquet, MN.
5. **Diana Dalbotten**, Nievita Bueno Watts, and Antony Berthelote. Geoscience Alliance IV, Carrying forward ancestral geoscience knowledge to work through today’s challenges: Land Rights, Food Security, Natural Resource Extraction, Extreme Weather Events, Water, Land Use Change, and Education, January 31 – February 3, 2019, Phoenix, AZ.
6. Anne Hornickel (MN Northstar STEM Alliance, University of Minnesota), **Diana Dalbotten**, Lori Barrow (Leech Lake Tribal College), 2<sup>nd</sup> NSSI Indigenous Research Restreat, May 31-June 1, 2018, Leech Lake Tribal College, Cass Lake, MN.
7. Sreekala Bajwa, Aaron Bergstrom, Evan Boucher, **Diana Dalbotten**, Travis Desell, Paul Gunderson, Gary Hatfield, Mohamed Mokbel, John Nowatzki, Philip Pardee, and Nathan Springer. Agricultural Data Integration: From Genomics to Unmanned Systems, October 26 - 28, 2017, University of Minnesota.
8. **Diana Dalbotten** and Frank Douma (University of Minnesota). Tribal Colleges & Tribal Lands: Developing Future Leadership for Infrastructure, Environmental Sustainability & Wellbeing, Friday August 25th, 2017, 9:00 a.m. - 5:30 p.m., Humphrey School of Public Affairs, University of Minnesota

9. Tahlia Bear (GSA), Stephen Boss (University of Arkansas), **Diana Dalbotten**, Aisha Morris (UNAVCO), Nievita Bueno Watts (University of Northern Iowa), Lisa White (University of California, Berkeley), Unity of Purpose for Equitable Representation in Geosciences Workshop, 10-11 January 2017 in Arlington, Virginia
10. Val Sloan (NCAR), Rebecca Haacker (NCAR), **Diana Dalbotten**, David Mogk (Montana State University). Research Mentoring of Young Scientists from Undergrads to Postdocs, AGU Workshop 2016, 1:00 – 4:00 pm, Mon., Dec. 12, 2016, San Francisco, CA.
11. Steven Semken (Earthscope, Arizona State University), **Diana Dalbotten**, Sarah Robinson (Earthscope, Arizona State University), EarthScope Midwest Native Science Educators Workshop 1-3 August 2015, Cass Lake, MN.
12. Nievita Bueno Watts (Oregon Health and Sciences University-OHSU), **Diana Dalbotten**, Wendy Smythe (OHSU), and Antony Berthelote, Geoscience Alliance III National Conference: A Changing Climates Effect on Rivers, Estuaries, Oceans, and Tribal Health, March 21-23, 2015, Portland, OR.
13. **Diana Dalbotten**, Antony Berthelote (Salish Kootenai College), Nievita Bueno Watts (OHSU), Geoscience Alliance II National Conference: Home Places, Local Landscapes, Traditional Knowledge, and Modern Technologies, March 17-18, 2012, Pablo, MT.
14. **Diana Dalbotten**, Rajul Pandya (NCAR), Suzanne Zurn-Birkheimer (Purdue University), Holly Pellerin (University of Minnesota), Andrew Wold (Fond du Lac Tribal and Community College), Anne Hornickel (University of Minnesota), Alyssa Burger (University of Minnesota). 2010 Geoscience Alliance National Conference: Broadening Participation of Native Americans in the Geosciences, Sept. 16-18, 2010, Black Bear Casino, Cloquet, MN.
15. **Diana Dalbotten**, Geoscience Alliance Conference Planning Workshop, American Indian Science and Engineering Society Pre-Meeting, October 28, 2009, Portland, OR.

#### **CURRENT MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS**

American Geophysical Union, American Indian Science and Engineering Society, Geological Society of America, Geoscience Alliance, Society for the Advancement of Chicanos and Native Americans in Science

#### **SERVICE ACTIVITIES**

1. National Advisory Board, Inclusive Graduate Education Network, 2019-present
2. Associate Editor, *Journal of Geoscience Education*, 2012-2020
3. North Dakota EPSCoR External Advisory Board Member, 2016-2020
4. Salish Kootenai College Hydrology Department Advisory Board, 2012-present
5. RECCS (Research Experience for Community College Students) Advisory Board, 2013-present
6. NSF Proposal Review and Panel Member, 2010-present
7. NAGT Field Camp Advisory Committee, 2016-present
8. AGU Flinn Award Honors Committee, 2013-2017
9. University of Minnesota, DOVE Fellowship Committee, 2013-2016
10. C-DEBI Education and Outreach Steering Committee, 2013-2015
11. AISES Professional of the Year Selection Committee, 2014
12. University of Minnesota, STEP Faculty Search Committee Member, 2017-2018