

## Curriculum Vita

### Eric Charles Brevik

#### Education

Ph.D. (2001), Soil Science (Soil Morphology and Genesis), Iowa State University (Major Prof. – Thomas E. Fenton)  
M.A. (1994), Geology (Geomorphology), University of North Dakota (Major Prof. – John R. Reid, Jr.)  
B.S. (1992), Geology, University of North Dakota

#### Theses

Brevik, E.C. 2001. Evaluation of Selected Factors that may Influence the Application of Electromagnetic Induction Technology to Soil Science Investigations in Iowa. Unpublished Doctoral dissertation, Iowa State University, Ames. 148 p.

Brevik, Eric C. 1994. Isostatic Rebound in the Lake Agassiz Basin Since the Late Wisconsinan. Unpublished Masters thesis, University of North Dakota, Grand Forks. 127 p.

Brevik, Eric C. 1992. Depositional Processes of the Units Exposed in the Gull Lake Gravel Pit, Manitoba, Canada. Unpublished Senior Honors thesis, University of North Dakota, Grand Forks. 64 p.

#### Professional Experience

##### Employment

2025-present – Professor of Soils and Geology, Southern Illinois University Carbondale  
2021-2024 – Dean, College of Agricultural, Life, and Physical Sciences, Southern Illinois University Carbondale  
2012-2021 – Professor of Geology and Soils, Dickinson State University  
2012-2018 – Chair, Department of Natural Sciences, Dickinson State University  
2007-2012 – Associate Professor of Geology and Soils, Dickinson State University  
2005-2007 – Associate Professor of Geosciences, Valdosta State University  
2002-2007 – Graduate Faculty, Valdosta State University  
2001-2005 – Assistant Professor of Geosciences, Valdosta State University  
1998-2001 – Graduate Research Assistant, Iowa State University  
1998-2000 – Consulting Geologist, SRI Consultants, Tucson AZ (part time)  
Summer 1997 – Student Intern, Leopold Center for Sustainable Agriculture, Ames IA  
1996-1998 – Graduate Teaching Assistant, Iowa State University  
1994-1995 – Environmental Consultant, Chart Services, Des Moines IA  
Fall 1994 – Instructor, Drake University Department of Geography and Geology (part time)  
1992-1994 – Graduate Teaching Assistant, University of North Dakota  
Summer 1993 – Graduate Research Assistant, University of North Dakota  
Summer 1992 – Student Intern, North Dakota Geological Survey, Bismarck ND  
1991-1992 – Undergraduate Teaching Assistant, University of North Dakota  
1990-1992 – Undergraduate Research Assistant, University of North Dakota

##### Teaching

Southern Illinois University  
CSEM 359 – Intern Program  
CSEM/GEOL 360 – Soil Description and Interpretation  
CSEM 390 – Special Studies in Plant and Soil Science (Soil Judging)  
CSEM/PSAS 441 – Soil Morphology and Classification  
GEOL/PSAS 507 – Science Writing and Scientific Communication  
GEOL/PSAS 543 – Soil Geomorphology  
PSAS 545 – History and Philosophy of Soil Science  
AGSC 590 – Readings in Agricultural Sciences  
PSAS 590 – Readings  
AGSC 591 – Individual Research in Agricultural Science  
PSAS 593 – Individual Research

PSAS 599 - Thesis  
AGSC 600 – Dissertation  
ERP 600 - Dissertation  
AGSC 601 – Continuing Enrollment  
PSAS 601 – Continuing Enrollment

Dickinson State University:

CHEM 300 – Environmental Chemistry  
EASC/SCNC/GEOG 315 – Weather and Climate  
GEOG 121 – Physical Geography  
GEOL 100 – Earth Science with laboratory  
GEOL 105 – Physical Geology with laboratory  
GEOL 106 – Earth Through Time with laboratory  
GEOL/GEOG 311 – Process Geomorphology with laboratory  
GEOL 320 – Hydrogeology  
GEOL/GEOG 330 – Physical Geology/Geography of North Dakota  
GEOL 497 – Geology Internship, Externship, Cooperative Learning  
GEOL 499 – Special Topics  
SCNC 291 – Sophomore Science Seminar  
SCNC 295 – Service Learning (Science Olympiad)  
SCNC 494 – Undergraduate Research  
SOIL 210 – Introduction to Soil Science with laboratory  
SOIL 321 – Soil Management and Conservation  
SOIL 322 – Soil Fertility and Fertilizers  
SOIL 350 – Soil Health and Productivity  
SOIL/GEOG 444 – Soil Genesis and Survey with laboratory  
UNIV 100 – Freshman Seminar

Valdosta State University:

GEOG 1113K – Introduction to Landforms with laboratory  
GEOL 1121K – Principles of Physical Geology with laboratory  
GEOG/GEOL 3020 – Geoscience Perspectives on Global Climate Change  
GEOG/GEOL 3120 – Geoscience Field Trip  
GEOG/GEOL 3300 – Introduction to Process Geomorphology with laboratory  
GEOG 3310 – Physiography of North America  
GEOG/GEOL 3710 – Environmental Soil Science with laboratory  
GEOG 4860 – Senior Thesis I  
GEOG 4861 – Senior Thesis II  
GEOL 4950 – Directed Study: Carbon Sequestration in Lakes  
GEOG 4900 – Special Topics: Field Methods in Environmental Soil Science  
PERS 2450 – Environmental Issues for the New Millennium

### **Awards, Honors, and Recognitions**

2024 Outstanding Paper of the Year, Natural Sciences Education  
2023 Fellow, Soil Science Society of America  
2021 Best Reviewer in 2020 Award, Geography and Sustainability  
2021 Granted Tenure by the Board of Trustees and Southern Illinois University Carbondale  
2020 Clarivate Web of Science Highly Cited Researcher (also 2021, 2023, 2024)  
2020 Professional Contributions Award, Dickinson State University  
2019 Stanford-Elsevier Top 2% of World's Scientists list (also 2020 - 2024)  
2017 Albert Nelson Marquis Lifetime Achievement Award by Marquis Who's Who  
2016 Exceptional Review, Chemosphere  
2016 Lloyd R. Frederick Soil Teaching Travel Study Award, Soil Sci. Soc. of Am.  
2015 Best Review Paper of 2014 Award, Geoderma  
2012 Soil Science Education Award, Soil Science Society of America  
2012 Promoted to Full Professor of Geology and Soils, Dickinson State Univ.  
2010 Distinguished Teacher of the Year, Dickinson State University  
2010 Granted tenure by the North Dakota State Board of Higher Education and Dickinson State

University  
2006 Granted tenure by the Georgia Board of Regents and Valdosta State University  
2005 Promoted to Associate Professor of Geosciences, Valdosta State University  
2004 Admitted to Gamma Theta Upsilon (Honor Society of Geography)  
2001 Research Excellence Award, Iowa State University  
2001 Best Professional Poster, Society for American Archeology annual meeting  
1998 Admitted to Gamma Sigma Delta (Honor Society of Agriculture)  
1998 Admitted to Phi Kappa Phi (Academic Honor Society)  
1996 Premium for Academic Excellence Award, Iowa State University  
1992 Admitted to Sigma Xi (Science Honor Society)  
1992 Cum Laude, University of North Dakota  
1991 Top Seniors in Geology Program, Geological Society of America  
1990 Admitted to Sigma Gamma Epsilon (Earth Science Honor Society)  
1988-1992 Presidential Scholar Scholarship, University of North Dakota  
1988 Presidential Freshman Scholar, University of North Dakota  
1986 Eagle Scout, Boy Scouts of America

### **Professional Organizations**

Soil Science Society of America, Canadian Society of Soil Science, European Geosciences Union, History of Earth Sciences Society, International Union of Soil Sciences, International Commission on the History of Geological Sciences, North Dakota Academy of Science, North Dakota Geological Society, Professional Soil Classifiers Association of North Dakota, Illinois Soil Classifiers Association, Gamma Sigma Delta, Gamma Theta Upsilon, Sigma Xi, Phi Kappa Phi.

### **Publications**

#### **Peer-Reviewed Journal Articles**

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\* - undergraduate student author

203. Guzel, Gulcin Sener, Osman Guzel, Mustafa Guzel, Eric C. Brevik, Oluwaseun Ola, and Amir Sadeghpour. Precision planting of cereal rye as a novel alternative cover cropping method for improving sweet corn yield and reducing cover cropping costs. *Agronomy for Sustainable Development*. in press.

202. Pereira, Paulo, Eموke Dalma Kovacs, Melinda Haydee Kovacs, Miguel Inácio, Eric C. Brevik, and Damia Barcelo. 2026. Microplastics and persistent organic pollutants' impacts on soil ecosystem services supply. *Trends in Analytical Chemistry* 196, 118667. <https://doi.org/10.1016/j.trac.2026.118667>

201. Garosi, Younes, Mohsen Sheklabadi, Shamsollah Ayoubi, Iman Kimiaee, Eric C. Brevik, and Christian Conoscenti. 2025. Assessment of the Spatial Variability of Metal Contaminants Using Digital Mapping. *Archives of Environmental Contamination and Toxicology*. <https://doi.org/10.1007/s00244-025-01141-w>

200. Sadeghpour, Amir, Moein Javid, Sowmya Koduru, Sirwan Babaei, and Eric C. Brevik. 2025. Heavy Metals in Bioenergy Crop Production, Quality, and Biorefinery: Global Impacts and Sustainable Management Strategies. *Bioresources and Bioproducts* 1(1), 2. <https://doi.org/10.3390/bioresourbioprod1010002>

199. Aitta, Abeer, Mohammed Shams, Abdulmageed Rabie, Hassan El-Ramady, Heba Elbasiouny, Tamer Elsakhawy, Mohamed Atef Elsherpiny, and Eric C. Brevik. 2025. Soil Microplastic Pollution and its Remediation: An Overview. *Egyptian Journal of Soil Science* 65, 1569-1586. DOI: 10.21608/EJSS.2025.394838.2210

198. Ghanema, Samar, Alaa Khallouf, Ahmad Muhaimed, Rosa Francaviglia, Eric C. Brevik, and Magboul M.S. Siddig. 2025. Factors determining carbonate content in a lithosequence in a Mediterranean environment, Syria. *Catena* 259, 109358. <https://doi.org/10.1016/j.catena.2025.109358>

197. Siddig, Magboul, Daniela Sauer, and Eric C. Brevik. 2025. Quantitative soil mapping in Sudan– a systematic review. *Geoderma Regional* 42, e00990. <https://doi.org/10.1016/j.geodrs.2025.e00990>.
196. El-Bialy, Said M., Taha Elesawy, Hassan El-Ramady, Mohammed E. El-Mahrouk, Tamer Elsakhawy, Alaa El-Dein Omara, Megahed Amer, Mohamed A. El-Serpiny, Yahya Eid, and Eric C. Brevik. 2025. Integrated Fertilization to Support Crop Productivity in Saline Soils. *Egyptian Journal of Soil Science*, 65, 1365 - 1382. doi:10.21608/ejss.2025.390523.2196.
195. Musa, Musaab, Mohammed A. Elsheikh, Magboul M.S. Siddig, Mohammed M. Omar, Fuat Kaya, and Eric C. Brevik. 2025. Integrating machine learning and soil-environmental covariates for estimating soluble and exchangeable potassium in dryland regions: Agronomical implications. *Plant Soil*. <https://doi.org/10.1007/s11104-025-07717-8>.
194. Pereira, Paulo, Luis Pinto, Miguel Inacio, Damia Barcelo, Eric C. Brevik, Corinne E. Brevik. 2025. A method to map real-time gamma-ray radiation in urban areas near the soil surface. *MethodsX* 14, 103414. <https://doi.org/10.1016/j.mex.2025.103414>.
193. Brevik, Eric C. 2025. The Teaching of Soil Science at 1994 Land Grant Institutions. *Natural Sciences Education* 54, e70019. <https://doi.org/10.1002/nse2.70019>.
192. Siddig, Magboul, Fuat Kaya, Abdullah Al-Farraj, and Eric C. Brevik. 2025. A novel method to determine background concentrations and spatial distributions of heavy metals in soil at large scale using machine learning coupled remote sensing-terrain attributes. *MethodsX* 14, 103180. <https://doi.org/10.1016/j.mex.2025.103180>.
191. Cserkés, Tamás., Olivér Váczi, Tünde Takáts, Piroska Pazonyi, Gábor Mikesy, Eric C. Brevik, Lajos Nagy, András István Csathó, Attila Németh, Tamás Szitta, Csaba Kiss, Annamária Laborczi, János Mészáros, and Csongor Gedeon. 2025. Past and present existence of *Spermophilus citellus* in Hungary with a forecast of its population using time series models. *Journal for Nature Conservation* 84, 126836. <https://doi.org/10.1016/j.jnc.2025.126836>.
190. Siddig, Magboul, Stephen B. Asabere, Abdullah S. Al-Farraj, Eric C. Brevik, and Daniela Sauer. 2025. Pollution and ecological risk assessment of heavy metals in anthropogenically-affected soils of Sudan: A systematic review and meta-analysis. *Journal of Hazardous Materials Advances* 17, 100601. <https://doi.org/10.1016/j.hazadv.2025.100601>.
189. Siddig, Magboul, Eric C. Brevik, and Daniela Sauer. 2025. Human health risk assessment from potentially toxic elements in the soils of Sudan: A meta-analysis. *Science of the Total Environment* 958, 178196. <https://doi.org/10.1016/j.scitotenv.2024.178196>.
188. Brevik, Eric C., Maja Krzic, Heba Elbasiouny, Lorna Dawson, Jacqueline A. Hannam, Monday Mbila, Laura Bertha Reyes-Sánchez, and Natalie Coles. 2025. Where are we with gender parity in academia and professional societies? A multinational look at women in soil science. *European Journal of Soil Science* 76, e70039. DOI:10.1111/ejss.70039
187. Trujillo-González, Juan Manuel, Marco Aurelio Torres-Mora, Marlon Serrano-Gómez, Edgar Fernando Castillo-Monroy, Eric C. Brevik, and Raimundo Jiménez-Ballesta. 2024. Assessment of vanadium content in soils under equatorial climate. *Environmental Quality Management* 34, e70008. <https://doi.org/10.1002/tqem.70008>.
186. Oliver, Margaret A., and Eric C. Brevik. 2024. The history of soil and human health. *Advances in Agronomy* 188, 1-99. <https://doi.org/10.1016/bs.agron.2024.07.001>
185. El-Ramady, Hassan, József Prokisch, Daniella Sári, Abhishek Singh, Karen Ghazaryan, Vishnu D. Rajput, and Eric C. Brevik. 2024. Nanotechnology in the Soil System: An Ecological Approach Towards Sustainable Management. *Applied Soil Ecology* 204, 105669. <https://doi.org/10.1016/j.apsoil.2024.105669>.

184. Prokisch, József, Aya Ferroudj, Safa Labidi, Hassan El-Ramady, and Eric C. Brevik. 2024. Biological Nano-Agrochemicals for Crop Production as an Emerging Way to Address Heat and Associated Stresses. *Nanomaterials* 14, 1253. <https://doi.org/10.3390/nano1415125>.
183. El-Ramady, Hassan, József Prokisch, Mohammed E. El-Mahrouk, Yousry A. Bayoumi, Tarek A. Shalaby, Eric C Brevik, and Svein Ø Solberg. 2024. Nano-Food Farming Approaches to Mitigate Heat Stress Under Ongoing Climate Change: A Review. *Agriculture* 14, 656. <https://doi.org/10.3390/agriculture14050656>.
182. Sári, Daniella, Aya Ferroudj, Dávid Semsey, Hassan El-Ramady, Eric C. Brevik, and József Prokisch. 2024. Tellurium and nano-tellurium: medicine or poison? *Nanomaterials* 14, 670. <https://doi.org/10.3390/nano14080670>.
181. Prokisch, József, Gréta Törös, Duyen H.H. Nguyen, Chaima Neji, Aya Ferroudj, Daniella Sári, Arjun Muthu, Eric C. Brevik, and Hassan El-Ramady. 2024. Nano-Food Farming: Towards Sustainable Applications of Proteins, Mushrooms, Nano-Nutrients, and Nanofibers. *Agronomy* 14, 606. <https://doi.org/10.3390/agronomy14030606>.
180. El-Ramady, Hassan Ragab, József Prokisch, Hani Mansour, Yousry A. Bayoumi, Tarek A. Shalaby, Szilvia Veres, and Eric C. Brevik. 2024. Review of Crop Response to Soil Salinity Stress: Possible Approaches from Leaching to Nano-Management. *Soil Systems* 8(1), 11. <https://doi.org/10.3390/soilsystems8010011>.
179. Sári, Daniella, Aya Ferroudj, Semsey Dávid, Hassan El-Ramady, Salah E.-D. Faizy, Shaban Ibrahim, Hani Mansour, Eric C. Brevik, Svein Ø. Solberg, and József Prokisch. 2024. Drought Stress Under a Nano-Farming Approach: A Review. *Egyptian Journal of Soil Science* 64(1), 135-151. DOI: 10.21608/EJSS.2023.239634.1668.
178. El-Ramady, Hassan, Eric C. Brevik, Mohamed Abowaly, Raafat Ali, Farahat Saad Moghanm, Mohamed Samy Gharib, Hani Mansour, Zakaria Fouad Fawzy, József Prokisch. 2024. Soil Degradation under a Changing Climate: Management from Traditional to Nano-Approaches. *Egyptian Journal of Soil Science* 64(1), 287-298. DOI: 10.21608/ejss.2023.248610.1686.
177. Sulieman, Magboul M., Fuat Kaya, Ali Keshavarzi, Abdullahi Hussein, Abdullah Al-Farraj, and Eric Brevik. 2024. Spatial variability of some heavy metals in arid harrats soils: Combining machine learning algorithms and synthetic indexes based-multitemporal Landsat 8/9 to establish background levels. *Catena*. 234, 107579.
176. Elbasiouny, Heba Y., Fathy Elbehiry, Fathia Al-Anany, Aliaa A Almashad, Asmaa M Khalifa, Azhar Mostafa Mohamed Khalil, Hassan El-Ramady, Eric C Brevik. 2023. Contaminate Remediation with Biochar and Nanobiochar Focusing on Food Waste Biochar: A Review. *Egyptian Journal of Soil Science* 63, 653-670. doi: 10.21608/EJSS.2023.229851.1642
175. El-Ramady, Hassan, Neama Abdalla, Daniella Sári, Aya Ferroudj, Arjun Muthu, József Prokisch, Zakaria Fawzy, Eric C. Brevik, and Svein Ø. Solberg. 2023. Nano-Farming: Crucial Solutions for the Future of the Global Agricultural Industry. *Agronomy* 13, 1600. <https://doi.org/10.3390/agronomy13061600>
174. Sári, Daniella, Aya Ferroudj, Arjun Muthu, Béni Áron, Raziye Jamalifard, József Prokisch, Hassan El-Ramady, Tamer Elsakhawy, Alaa El-Dein Omara, and Eric C. Brevik. 2023. Nano-Enabled Agriculture Using Nano-Selenium for Crop Productivity: What Needs to be Addressed? *Environment, Biodiversity and Soil Security* 7, 85-99. DOI: 10.21608/JENVBS.2023.205664.1215
173. Sadeghi, Sara, Billi Jean Petermann, Joshua J. Steffan, Eric C. Brevik, and Csongor Gedeon. 2023. Predicting microbial responses to changes in soil physical and chemical properties under different land management. *Applied Soil Ecology* 188, 104878. <https://doi.org/10.1016/j.apsoil.2023.104878>
172. El-Mahrouk, Mohammed E., Yaser H. Dewir, Yaser M. Hafez, Antar El-Banna, Farahat S. Moghanm, Hassan R. El-Ramady, Qaisar Mahmood, Eric C. Brevik, and Fathy Elbehiry. 2023. Assessment of Bioaccumulation of Heavy Metals and their Ecological Risk in Sea Lettuce (*Ulva* spp.) Along the Coast Alexandria, Egypt: Implications for Sustainable Management. *Sustainability* 15, 4404. <https://doi.org/10.3390/su15054404>

171. Sauer, Thomas J., Ken Wacha, Eric C. Brevik, Diomides Zamora. 2023. Eastern red cedar effects on carbon sequestration and soil quality in the Great Plains. *Soil Science Society of America Journal* 87, 932-947. <https://doi.org/10.1002/saj2.20534>
170. Sulieman, Magboul M., Abdelazeem Sh. Sallam, Abdullah S. Al-farraaj, and Eric C. Brevik. 2023. Soil evolution in basaltic parent materials under successive climate changes, Saudi Arabia. *Catena* 224: 106965.
169. El-Bialy, Said M., Mohammed E. El-Mahrouk, Taha Elesawy, Alaa El-Dein Omara, Fathy Elbehiry, Hassan El-Ramady, Aron Béni, József Prokisch, Eric C. Brevik, and Svein O. Solberg. 2023. Biological Nanofertilizers to Enhance Rooting of Strawberry Seedlings by Boosting Photosynthetic Pigments, Plant Enzymatic Antioxidants and Nutritional Status. *Plants* 12, 276. <https://doi.org/10.3390/plants12020276>.
168. El-Ramady, Hassan, József Prokisch, Said M. El-Bialy, Taha Elesawy, Mohammed E. El-Mahrouk, Alaa El-Dein Omara, Tamer Elsakhawy, Megahed Amer, and Eric C. Brevik. 2022. Biological Nanofertilizer for Horticultural Crops: A Diagrammatic Mini-Review. *Environment, Biodiversity and Soil Security* 6: 339-348.
167. Elsakhawy, Tamer Abdallah, Alaa El-Dein Omara, Megahed Mohamed Amer, Hassan Ragab El-Ramady, Jozsef Prokisch, and Eric Brevik. 2022. A Diagrammatic Mini-Review on Soil-Human Health-Nexus: with Focus on Soil Nano-Pollution. *Environment, Biodiversity and Soil Security* 6, 327-338. DOI: 10.21608/jenvbs.2022.173272.1199
166. Omara, Alaa El-Dein, Tamer Abdallah Elsakhawy, Megahed Mohamed Amer, Hassan Ragab El-Ramady, Jozsef Prokisch, and Eric C. Brevik. 2022. A Diagrammatic Mini-Review on the Soil-Human Health-Nexus with a Focus on Soil Microbes. *Environment, Biodiversity and Soil Security* 6: 275-284. doi: 10.21608/JENVBS.2022.164059.1194
165. Ahmed, Ibrahim S., Abdelmagid A. Elmobarak, Magboul M. Sulieman, Ali Keshavarzi, Faroug A. Hassan, Khozima M. Yousif, Eric C. Brevik. 2022. Using environmental covariates to predict soil organic carbon stocks in Vertisols of Sudan. *Geoderma Regional* 31: e00578.
164. El-Ramady, Hassan, Eric C. Brevik, Yousry Bayoumi, Tarek A. Shalaby, Mohammed E. El-Mahrouk, Naglaa Taha, Heba Elbasiouny, Fathy Elbehiry, Megahed Amer, Neama Abdalla, József Prokisch, Svein Ø. Solberg, and Wanting Ling. 2022. Management of Agricultural Wastes in Light of the Water-Energy-Waste Nexus. *Sustainability* 14(23): 15717; <https://doi.org/10.3390/su142315717>
163. El-Ramady, Hassan, Eric C. Brevik, Zakaria Fawzy, Tamer Elsakhawy, Alaa El-Dein Omara, Megahed Amer, Salah E-D Faizy, Mohamed E. Abowaly, Ahmed El-Henawy, Attila Kiss, Gréta Törös, József Prokisch, and Wanting Ling. 2022. Nano-Restoration for Sustaining Soil Fertility: A Pictorial and Diagrammatic Review Article. *Plants* 11:2392. DOI: 10.3390/plants11182392
162. El-Ramady, Hassan, Eric C. Brevik, Tamer Elsakhawy, Alaa El-Dein Omara, Megahed Amer, Mohamed Abowaly, Ahmed El-Henawy, and József Prokisch. 2022. Soil and Humans: A Comparative and A Pictorial Mini-Review. *Egyptian Journal of Soil Science* 62: 101-122. DOI: 10.21608/EJSS.2022.144794.1508
161. El-Ramady, Hassan, Salah E.-D. Faizy, Megahed M. Amer, Tamer Elsakhawy, Alaa El-Dein Omara, Yahya Eid, and Eric C. Brevik. 2022. Management of Salt-Affected Soils: A Photographic Mini-Review. *Environment, Biodiversity and Soil Security* 6: 61-79.
160. Brevik, Eric C., Jacqueline Hannam, Maja Krzic, Cristine Muggler, and Yoshi Uchida. 2022. The Importance of Soil Education to Connectivity as a Dimension of Soil Security. *Soil Security* 7:100066. <https://doi.org/10.1016/j.soisec.2022.100066>
159. Ibáñez, Juan José, and Eric C. Brevik. 2022. Geodiversity research at the crossroads: Two sides of the same coin. *Spanish Journal of Soil Science* 12:10456. doi: 10.3389/sjss.2022.10456

158. Gedeon, Csongor Istvan, Mátyás Árvai, Gábor Szatmári, Eric C. Brevik, Tünde Takáts, Zsófia A. Kovács, and János Mészáros. 2022. Identification and count of European souslik burrows from UAV images by pixel-based image analysis and random forest classification: a simple, semi-automated yet accurate method for estimating population size. *Remote Sensing* 14: 2025. <https://doi.org/10.3390/rs14092025>
157. Brevik, Eric C., Maja Krzic, Cristine Muggler, Damien Field, Jacqueline Hannam, Yoshi Uchida. 2022. Soil Science Education – A Multi-national Look at Current Perspectives. *Natural Sciences Education* 51:e20077. DOI:10.1002/nse2.20077
156. Koriem, Mohamed A., Saber A. Gaheen, Hassan Ragab El-Ramady, Jo'Zsef Prokisch, and Eric C. Brevik. 2022. Global Soil Science Education to Address the Soil – Water – Climate Change Nexus. *Environment Biodiversity and Soil Security* 6: 27-38. DOI :10.21608/jenvbs.2022.117119.1160
155. Trujillo-González, Juan Manuel, Marco Aurelio Torres-Mora, Raimundo Jiménez Ballesta, and Eric C. Brevik. 2022. Assessment of some pedological properties along an altitudinal gradient of agricultural and natural soils in Colombia using multivariate statistical analysis and spatial distribution. *Environmental Earth Sciences* 81:108. <https://doi.org/10.1007/s12665-022-10235-w>
154. Adam, Mutwakil, Ibrahim Ibrahim, Magboul Sulieman, Mojtaba Zeraatpisheh, Gaurav Mishra, and Eric C. Brevik. 2021. Predicting soil cation exchange capacity in Entisols with divergent textural classes: The case of northern Sudan soils. *Air, Soil, and Water Research* 14, 1-14. <https://doi.org/10.1177/1178622121104238>
153. El-Ramady, Hassan, Eric C. Brevik, Heba Elbasiouny, Fathy Elbehiry, Ahmed El-Henawy, Salah E.-D. Faizy, Tamer Elsakhawy, Alaa El-Dein Omara, Megahed Amer, and Yahya Eid. 2021. Soils, Biofortification, and Human Health under COVID-19: Challenges and Opportunities. *Frontiers in Soil Science* 1:732971. doi: 10.3389/fsoil.2021.732971
152. Brevik, Eric C., Yones Khaledian, and Hassan El-Ramady. 2021. Assessing the Complex Links Between Soils and Human Health: An Area of Pressing Need. *Frontiers in Soil Science* 1:731085. doi: 10.3389/fsoil.2021.731085
151. El-Ramady, Hassan, Eric C. Brevik, Heba Elbasiouny, Fathy Elbehiry, Megahed Amer, Tamer Elsakhawy, Alaa El-Dein Omara, Ahmed A. Mosa, Ayman M. El-Ghamry, Neama Abdalla, Szilárd Rezes, Mai Elborae, Ahmed Ezzat, and Yahya Eid. 2021. Planning for disposal of COVID-19 pandemic wastes in developing countries: A review of current challenges. *Environmental Monitoring and Assessment* 193:592. <https://doi.org/10.1007/s10661-021-09350-1>
150. Elbehiry, Fathy, Heba Elbasiouny, Valérie Cappuyns, and Eric C. Brevik. 2021. Available concentrations of some potentially toxic and emerging contaminants in different soil orders in Egypt and assessment of soil pollution. *Journal of Soils and Sediments* 21:3645-3662. doi:10.1007/s11368-021-03021-x
149. Mahler, Robert L., Maja Krzic, Bethann Garramon Merkle, Colby Moorberg, and Eric Brevik. 2021. Natural Sciences Education in a COVID-19 World. *Natural Sciences Education* 50:e20067.
148. Keshavarzi, Ali., Henry Oppong Tuffour, Eric C. Brevik, and Güneş Ertunç. 2021. Spatial Variability of Soil Mineral Fractions and Bulk Density in Northern Ireland: Assessment with Different Interpolation Methods and Fractal Analysis. *Catena* 207:105646.
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14. Brevik, Eric C. 2007. Explain the sequence of the phases of the moon. Georgia Performance Standards for 4<sup>th</sup> Grade Science Video Series, Standard S4E2b. Valdosta State University.
13. Brevik, Eric C. 2007. Demonstrate the revolution of the earth around the sun and the earth's tilt to explain the seasonal changes. Georgia Performance Standards for 4<sup>th</sup> Grade Science Video Series, Standard S4E2c. Valdosta State University.
12. Brevik, Eric C. 2007. Demonstrate the relative size and order from the sun of the planets in the solar system. Georgia Performance Standards for 4<sup>th</sup> Grade Science Video Series, Standard S4E2d. Valdosta State University.
11. Brevik, Eric C. 2007. Identify the temperatures at which water becomes a solid and at which water becomes a gas. Georgia Performance Standards for 4<sup>th</sup> Grade Science Video Series, Standard S4E3b. Valdosta State University.
10. Brevik, Eric C. 2007. Identify weather instruments and explain how each is used in gathering weather data and making forecasts. Georgia Performance Standards for 4<sup>th</sup> Grade Science Video Series, Standard S4E4a. Valdosta State University.

9. Grozsos, Mark S., and Eric C. Brevik. 2006. Classify Rocks by Their Process of Formation. Georgia Performance Standards for 6<sup>th</sup> Grade Science Video Series, Standard S6E5b. Valdosta State University.
8. Brevik, Eric C. 2006. Describe Processes that Change Rocks and the Surface of the Earth. Georgia Performance Standards for 6<sup>th</sup> Grade Science Video Series, Standard S6E5c. Valdosta State University.
7. Brevik, Eric C. 2006. Describe Soil as Consisting of Weathered Rocks and Decomposed Organic Material. Georgia Performance Standards for 6<sup>th</sup> Grade Science Video Series, Standard S6E5g. Valdosta State University.
6. Brevik, Eric C. 2006. Explain the Effects of Human Activity on the Erosion of the Earth's Surface. Georgia Performance Standards for 6<sup>th</sup> Grade Science Video Series, Standard S6E5h. Valdosta State University.
5. Brevik, Eric C. 2006. Describe Methods for Conserving Natural Resources such as Water, Soil, and Air. Georgia Performance Standards for 6<sup>th</sup> Grade Science Video Series, Standard S6E5i. Valdosta State University.
4. Brevik, Eric C. 2006. Explain the Role of the Sun as the Major Source of Energy and the Sun's Relationship to Wind and Water Energy. Georgia Performance Standards for 6<sup>th</sup> Grade Science Video Series, Standard S6E6a. Valdosta State University.
3. Brevik, Eric C., Can Denizman, Clint Barineau, Mark S. Grozsos, Judith L. Grable, Michael G. Noll, Edward E. Chatelain, and Paul Vincent. 2005. Laboratory Manual for Introduction to Landforms, 2<sup>nd</sup> Ed. Pearson Custom Publishing, Boston, MA.
2. Brevik, Eric C., Can Denizman, Clint Barineau, Mark S. Grozsos, Judith L. Grable, Michael G. Noll, Edward E. Chatelain, and Paul Vincent. 2003. Laboratory Manual for Introduction to Landforms. Pearson Custom Publishing, Boston, MA.
1. Barineau, Clinton I., Eric C. Brevik, Edward E. Chatelain, Mark S. Grozsos, and Martha A. Leake. 2003. Laboratory Manual for Physical Geology, 4<sup>th</sup> Edition. Pearson Custom Publishing, Boston, MA.

### **Miscellaneous**

28. El-Ramady, Hassan, Neama Abdalla, Daniella Sári, Aya Ferroudj, Arjun Muthu, József Prokisch, Zakaria F. Fawzy, Eric C. Brevik, and Svein Ø. Solberg. 2023. Nanofarming. Scholarly Community Encyclopedia. <https://encyclopedia.pub/entry/45849>.
27. El-Ramady, Hassan, Eric C. Brevik, Yousry Bayoumi, Tarek A. Shalaby, Mohammed E. El-Mahrouk, Naglaa Taha, Heba Elbasiouny, Fathy Elbehiry, Megahed Amer, Neama Abdalla, József Prokisch, Svein Ø. Solberg, Wanting Ling. 2022. Agro-Waste Management. Scholarly Community Encyclopedia. <https://encyclopedia.pub/entry/38027>.
26. El-Ramady, Hassan, Eric C. Brevik, Zakaria F. Fawzy, Tamer Elsakhawy, Alaa El-Dein Omara, Megahed Amer, Salah E.-D. Faizy, Mohamed Abowaly, Ahmed El-Henawy, Attila Kiss, Gréta Törös, József Prokisch, Wanting Ling. 2022. Nano-Restoration for Sustaining Soil Fertility. Scholarly Community Encyclopedia. <https://encyclopedia.pub/entry/27424>.
25. Brevik, Eric C., Alaa El-Dein Omara, Tamer Elsakhawy, Megahed Amer, Zakaria F. Fawzy, Hassan El-Ramady, and József Prokisch. 2022. The Soil-Water-Plant-Human Nexus: A Call for Photographic Review Articles. *Environment, Biodiversity & Soil Security* 6: 117–131. DOI: 10.21608/JENVBS.2022.145425.1178
24. Smetanová, Anna, João Pedro Nunes, Elias Symenoakis, Eric Brevik, Marcus Schindelwolf, and Rossano Ciampalini. 2020. Mapping and Modelling Soil Erosion to Address Societal Challenges in a Changing World (editorial). *Land Degradation and Development* 31:2519-2524. DOI: 10.1002/ldr.3319
23. Brevik, Eric C., Margaret Oliver, and Fang-Jie Zhou. 2019. Special section on soil and human health – An editorial. *European Journal of Soil Science* 70:859-861. DOI: 10.1111/ejss.12852

22. Brevik, Eric C. 2019. A Brief History of the Soil Health Concept. The Profile. <https://profile.soils.org/posts/field-and-historical-notes/a-brief-history-of-the-soil-health-concept>.
21. Brevik, Eric. 2017. A scientific view on the significance of soil for human health. *Kultur und Politik* 4(17): 12-13. In German.
20. Pereira, Paulo, Eric Brevik, and Sebastiano Trevisani. 2018. Editorial: Mapping the Environment. *Science of the Total Environment* 610-611: 17-23. <http://dx.doi.org/10.1016/j.scitotenv.2017.08.001>.
19. Brevik, Eric C., Andreas Baumgarten, Costanza Calzolari, Antonio Jordán, Cezary Kabala, Bradley A. Miller, and Paulo Pereira. 2016. Editorial: Historical perspectives and future needs in soil mapping, classification, and pedologic modeling. *Geoderma* 264:253-255. doi: 10.1016/j.geoderma.2015.09.022.
18. Pereira, Paulo, Antonio Giménez-Morera, Agata Novara, Saskia Keesstra, Antonio Jordán, Reginald E. Mastro, Eric Brevik, Cesar Azorin-Molina, and Artemi Cerdà. 2015. The impact of road and railway embankments on runoff and soil erosion in the Canyoles river watershed, Eastern Spain. *Hydrology and Earth System Sciences Discussions* 12:12947–12985.
17. Richter, Dan, Curtis Monger, and Eric Brevik. 2015. Meeting Commemorates Dan Yaalon. *CSA News*, September 2015. p. 38-39.
16. Brevik, Eric C. 2014. Soil science: Selected historical highlights in celebration of the upcoming International Year of Soils. *Soil Horizons* 55(6): doi:10.2136/sh2014-55-6-gc.
15. Brevik, E.C., A. Cerdà, J. Mataix-Solera, L. Pereg, J.N. Quinton, J. Six, and K. Van Oost. 2014. The Interdisciplinary Nature of SOIL. *SOIL Discussions* 1: 429–462. doi:10.5194/soild-1-429-2014
14. de B Richter, Daniel, Edward R. Landa, Eric Brevik, and Simon Berkowicz. 2014. In memoriam: Dan Hardy Yaalon 1924–2014. *Catena* 123: 272-273.
13. Driese, Steven G., Michael H. Young, and Eric C. Brevik. 2014. Connecting Modern Soil and Paleosol Communities: Improving Climate Proxies and Our Understanding of Earth's Critical Zone. *CSA News*, October Issue. p. 24-25.
12. Young, Michael H., Steven G. Driese, and Eric C. Brevik. 2014. Connecting modern soil and paleosol communities: Improving climate proxies and our understanding of Earth's Critical Zone. *GSA Today*, October Issue. p. 28.
11. Brevik, E.C., and T.J. Sauer. 2014. The past, present, and future of soils and human health studies. *SOIL Discussions* 1:51-80. doi:10.5194/soild-1-51-2014.
10. Brevik, Eric C., and Thomas J. Sauer. 2013. A Brief History of Soil and Human Health Studies. *History, Philosophy, and Sociology of Soil Science Newsletter* 20: 3-10.
9. Stiles, Cynthia A., Eric C. Brevik, and Daniel Hirmas. 2012. Soil Science Society of America – Division S-5, Pedology Guidelines for Posters and Oral Presentations for the Graduate Student Competition. *Soil Science Society of America, Madison, WI*. 8 p.
8. Brevik, Eric C. 2012. 75 Years of the Soil Science Society of America. *History, Philosophy, and Sociology of Soil Science Newsletter* 19: 12-17.
7. Brevik, Eric C. 2010. Mentoring of Early United States Soil Scientists by Collier Cobb and Allen Hole. *History, Philosophy, and Sociology of Soil Science Newsletter* 17: 9-16.

6. Homburg, Jeffrey, Eric Brevik, Jeffrey Altschul, Antony Orme, and Steven Shelley. 2002. Evolving Holocene Landscapes and Cultural Land-use Patterns in the Ballona Wetlands of Coastal Southern California. Society for California Archaeology Newsletter 36(4): 24-25.
5. Brevik, Eric C. 1999. The Soil Science - Geology Connection. North Dakota Geological Survey Newsletter, 26(1): 14-17.
4. Brevik, Eric C. 1999. Soil properties along the Mormon Trail in Clarke County, Iowa. Professional Soil Classifiers of Iowa Newsletter. 37: 11.
3. Brevik, Eric C. 1997. Viscosity of the Asthenosphere Beneath the Lake Agassiz Basin, Eastern North Dakota. North Dakota Geological Survey Newsletter, 24(3): 15-18.
2. Funk, Jeff, and Eric C. Brevik. 1995. Leaking Underground Storage Tank Site Cleanup Report for Rex Mathis Elementary School. Iowa Department of Natural Resources Report for LUST No. 8LTN35, Des Moines, 97 p.
1. Brevik, Eric C., and Jeff Funk. 1994. Leaking Underground Storage Tank Site Cleanup Report for Southeast Polk Community High School. Iowa Department of Natural Resources Report for LUST No. 8LTT90, Des Moines, 123 p.

### **Graduate Students Mentored**

Gulcin Guzel – PhD in Agricultural Sciences  
Osman Guzel – PhD in Agricultural Sciences  
Fateme Sheikishahrivar – PhD in Agricultural Sciences  
Folahanmi Adeyemi – PhD in Agricultural Sciences  
Hope Guebert – MS in Plant, Soil, and Agricultural Systems  
Katherine Baker – MS in Plant, Soil, and Agricultural Systems  
Nicholas Greer – MS in Plant, Soil, and Agricultural Systems  
Oluwasuen Ola – PhD in Agricultural Sciences  
Sowmya Koduru – PhD in Environmental Resources and Policy  
Moein Javid – PhD in Agricultural Sciences  
Chase Howell – MS in Plant, Soil, and Agricultural Systems  
Gabriella Burkett – PhD in Agricultural Sciences

### **Service to Field**

#### **Peer-Reviews Completed for:**

Acta Agriculturae Scandinavica; Aeolian Research; African Journal of Biotechnology; Agricultural and Environmental Letters; Agriculture; Agriculture, Ecosystems, and Environment; Agronomy Journal; Air, Soil and Water Research; American Journal of Experimental Agriculture; Annals of the Association of American Geographers; Applied and Environmental Soil Science; Applied Sciences; Asian Journal of Agricultural Extension, Economics & Sociology; Baltic Environment; Biosystems Engineering; British Journal of Applied Science and Technology; Canadian Journal of Soil Science; Catena; Chemosphere; Ciencia y Tecnología Agropecuaria Journal; Climate; Compost Science and Utilization; Computers and Electronics in Agriculture; Computers and Geosciences; Current Opinion in Environmental Science & Health; Earth Science Reviews; Ecological Engineering; Ecological Indicators; Encyclopedia of Life Support Systems (EOLSS); Environment Biodiversity and Soil Security; Environmental Earth Sciences; Environmental Engineering and Management Journal; Environmental Monitoring and Assessment; Environmental Geochemistry and Health; Environmental Pollution; European Journal of Environmental and Civil Engineering; European Journal of Soil Science; Florida Scientist; Forest Ecology and Management; Frontiers in Environmental Management; Geoderma; Geoderma Regional; Geography and Sustainability; Geomorphology; Georgia Journal of Science; Global Planetary Change; Heliyon; Hydrological Sciences Journal; Hydrology; Hydrology and Earth System Sciences; International Journal of Environmental Research and Public Health; International Journal of Plant & Soil Science; Journal of Agriculture and Rural Development in the Tropics and Subtropics; Journal of Biological Education; Journal of Environmental Hydrology; Journal of Environmental Management; Journal of Environmental Quality; Journal of Experimental Agriculture; Journal of Global Agriculture and Ecology; Journal of Hydrology; Journal of Maps; Journal of Mountain Science;

Journal of Soil and Water Conservation; Journal of Soil Science and Environmental Management; Journal of Soils and Sediments; Land Degradation and Development; Microbial Ecology; Natural Sciences Education / Journal of Natural Resources and Life Sciences Education; Nature; PeerJ; Physics and Chemistry of the Earth; Precision Agriculture; Quaternary International; Revista Brasileira de Ciência do Solo; Science of the Total Environment; SOIL; Soil and Tillage Research; Soil Science; Soil Science Society of America Journal; Soil Security; Soil Survey Horizons/Soil Horizons; Soil Use and Management; Solid Earth; Southeastern Geology; Sustainability; Transactions of the ASABE; American Geophysical Union books, Geological Society of America books, the Millennium Ecosystem Assessment, Oxford Bibliography Online, and Soil Science Society of America books.

**Reviews of Proposed Book Projects Completed for:**

Taylor & Francis Press, Pearson-Prentice Hall

**Grant Reviews Completed for:**

Israel Science Foundation, National Science Foundation, New Jersey Agricultural Experiment Station, Netherlands Organisation for Scientific Research.

**Editorial Boards**

Associate Editor, *Natural Sciences Education*, 2025-present  
Associate Editor, *Egyptian Journal of Soil Science*, 2024-present  
Guest Editor, *Sustainability*, 2021-2023  
Associate Editor, *Spanish Journal of Soil Science*, 2020-2025  
Editorial Board, *Geography and Sustainability*, 2020-2025  
Editorial Board, *European Journal of Soil Science*, 2019-present  
Editorial Board, *Air, Soil and Water Research*, 2019-2021  
Associate Editor, *Environment Biodiversity and Soil Security*, 2018-present  
Editorial Board, *Heliyon*, 2018-2021  
Guest Editor, *European Journal of Soil Science*, 2017-2019  
Editorial Board, *Geoderma*, 2016-2017  
Guest Editor, *Science of the Total Environment*, 2016-2017  
Editorial Board, *Land Degradation and Development*, 2015-2017  
Editorial Board, *Agriculture*, 2014-2024  
Guest Editor, *Geoderma*, 2014-2015  
Executive Editor, *SOIL*, 2013-2017  
Associate Editor, *Soil Survey Horizons/Soil Horizons*, 2005-2014

**Committee and Leadership Positions**

Vice President, Illinois Soil Classifiers Association, 2025-2026.

Scientific Advisory Board, Centre of Excellence, CoEX-UEB, Urban Biodiversity, ecosystem services and Disservices (URBIOES), Romania, 2024-present.

Soil Science Society of America, Fellows Committee, 2024-2025.

Non-land-grant Agriculture and Renewable Resources Universities (NARRU), At Large Director, 2021-2025.

International Union of Soil Sciences, History, Philosophy, and Sociology of Soil Science division, Chair, 2018-2022.

Soil Science Society of America Hubert J. Byrd Sr. Soil Science Undergraduate Scholarship Committee, 2017-2018.

International Union of Soil Sciences, Dan Yaalon Young Scientist Medal committee, 2017-2018

International Union of Soil Sciences, Cultural Patterns of Soil Understanding Working Group, Vice Chair, 2017-present

Soil Science Society of America, Board of Directors representative for the Education and Practicing Professionals Group, 2017-2022

European Geosciences Union, Publications Affairs Officer of the Soil System Sciences Division, 2014-2017

Soil Science Society of America Chair-Elect/Chair/Past Chair, Pedology Division, 2014-2016

Soil Science Society of America Chair/Past Chair, Education and Outreach Division, 2013-2014 (founding chair of the Division)

European Geosciences Union Chair of the Soil History, Education, and Society of Soil Science subdivision, 2012-2014

Soil Science Society of America Historian, 2010-2016

Soil Science Society of America 75<sup>th</sup> Anniversary planning committee, 2010-2011

Soil Science Society of America Council for the History, Philosophy, and Sociology of Soil Science: Committee member 2003-2006; Committee Vice Chair 2004-2005; Committee Chair 2005-2006; web page coordinator 2003-2013, Newsletter editor 2006-2014.

International Union of Soil Sciences Council for the History, Philosophy, and Sociology of Soil Science: Newsletter editor 2006-2014.

#### **External Faculty Promotion Reviews**

- North Dakota State University
- University of California Davis
- University of Saskatchewan
- Oklahoma State University

#### **External Thesis/Dissertation Reviewer**

- Marwa Masoud Mohamed Kandeel, PhD, Alexandria University, "Biochemical effects of recycling of organic wastes on soil health and periwinkle (*Catharanthus roseus* L.) growth."
- Lavanya V, PhD, Indian Institute of Technology Kharagpur. "Development of a Low-Cost Smartphone-Integrated Portable Imaging Device for the Determination of Nitrate and Phosphate in Soil and Water"
- Muddassar Muzzamal, MS, University of New South Wales. "Digital Soil Mapping of Soil Particle Size Fraction in a Sugarcane field across HCPSL, Ingham QLD"
- Triven Koganti, MS, University of New South Wales. "Three-dimensional (3-D) mapping of soil properties using geophysical instruments"
- Andrés García Díaz, PhD, Universidad Politécnica De Madrid. "Groundcover influence on physical and chemical soil properties, runoff and nutrient loss and grape yield and quality in semiarid Mediterranean vineyards"
- Ehsan Zare, MS, University of New South Wales. "Digital Soil Mapping of Landscape Units and Salinity Across the Bourke Irrigation District"
- María Luisa Fernández Romero, PhD, Universidad de Córdoba. "Effects of management, land use and geographical variables on soil organic carbon in Mediterranean and Temperate climate"
- Aura Pedrera Parrilla, PhD, Universidad de Córdoba. "Integration of multiple signals from an electromagnetic induction sensor to explore soil at the agricultural watershed scale"

#### **Soil Science Society of America Golden Opportunities Scholar Students Mentored**

- 2025-2026: Cameron Doane, Grand Valley State University
- 2024-2025: Isabella Rabac, Michigan State University
- 2023-2024: Ava McCune, University of Minnesota
- 2022-2023: Julia Wu, University of California Los Angeles
- 2021-2022: Ariana Lazo, Texas A&M

## **Research and Teaching Grants Received**

Total external funds received – \$3,365,215

Total internal funds received - \$48,123

Grand total funds received - \$3,413,338

Brevik, Eric C., Amir Sadeghpour, and Gabriella Burkett. 2025. Evaluating the Potential to Enhance Soybean Production in Southern Illinois using Cover Crop Mixes. Illinois Soybean Center. \$14,978 for one year.

Sadeghpour, Amir, Eric Brevik, and Kishore Joseph. 2025. Agronomic benefits of separated dairy solids to replace synthetic phosphorus fertilizer in corn cropping systems. Dairy Management Inc. \$44,991 for one year.

Brevik, Eric C. 2025. Travel grant to attend the Fall 2025 ASA-SSSA Region 3 soil judging contest. American Society of Agronomy – Soil Science Society of America. \$1,000 for one year.

Sadeghpour, Amir, and Eric C. Brevik. 2025. Integrated management strategies for maximizing soybean production in conservation tillage systems. Illinois Soybean Association. \$42,009 for one year.

Gage, Karla, Eric C. Brevik, and Amir Sadeghpour. 2025. Novel cover crop and herbicide management for controlling waterhemp in no-till and strip-till soybean fields. Illinois Soybean Association. \$59,700 for one year.

Brevik, Eric C. 2025. Characterizing the soils at an agrivoltaics research site. SIU Advanced Energy Institute. \$25,000 for one year.

Sadeghpour, Amir, and Eric C. Brevik. 2025. Integrated management strategies for maximizing soybean production in conservation tillage systems. Illinois Soybean Association. \$51,204 for one year.

Brevik, Eric C. and Amir Sadeghpour. 2024. Fall-Spring Soil Phosphorus Calibration in Wheat Cover Crop – Corn Rotation. OCP North America, Inc. \$20,000 for one year.

Sadeghpour, Amir, and Eric C. Brevik. 2024. Capitalizing On 150 Yrs of Soil Samples in Illinois. Nutrient Research and Education Council. \$80,473 for one year.

Sadeghpour, Amir, Andrew Margenot, Jon Schoonover, Karl Williard, Karla Gage, Shalamar Armstrong, and Eric C. Brevik. 2024. Next Generation Cover Cropping in Corn-Soybean Rotation to Improve Farm Benefits and Decrease Environmental Losses in South and Central Illinois. Nutrient Research and Education Council. \$550,222 for three years.

Sadeghpour, Amir, Karl Williard, Jon Schoonover, Karla Gage, Steffen Muller, and Eric C. Brevik. 2024. Intensification of Corn-Soybean Rotation with Wheat to Improve Water Quality, Soil Health, and Farm Profit. Nutrient Research and Education Council. \$573,423 for three years.

Sadeghpour, Amir, Joshua McGrath, Karl Williard, Jon Schoonover, Hasan Seyyadhasani, and Eric C. Brevik. 2024. Precision Nitrogen Management of Corn for Improving Farm Profitability and Water Quality in Southern Illinois. Nutrient Research and Education Council. \$238,588 for one year.

Sadeghpour, Amir, Dane Hunter, Yaser Samadi, and Eric C. Brevik. 2024. Increasing Rye Cover Crop Adoption. University of Minnesota SARE. \$37,523 for one year.

Sadeghpour, Amir, and Eric C. Brevik. 2024. Integrated Management Strategies for Maximizing Soybean Production in Conservation Tillage Systems. Illinois Soybean Board. \$11,560 for one year.

Sadeghpour, Amir, and Eric C. Brevik. 2024. Nitrogen Loss from Fall-Applied Phosphorus Fertilizer. OCP North America, Inc. \$10,612 for one year.

Sadeghpour, Amir, Reza Kashavarz Afshar, and Eric C. Brevik. 2024. Agronomic Benefits of Separated Dairy Solids to Replace Synthetic Phosphorus in Corn Cropping Systems. Dairy Management Inc. \$42,134 for one year.

Graham, Susan, Eric Brevik, and John Groninger. 2024. Supporting an Agricultural Careers Day. Illinois Farm Bureau. \$15,000 for one year.

Graham, Susan, Eric Brevik, and John Groninger. 2023. Cultivating the Next Generation of the Illinois Agriculture Industry. Illinois Farm Bureau. \$15,000 for one year.

Harrell, Justin, Lauren Becker, Ken Anderson, Eric Brevik, James Mathias, Kanchan Mondal, Emmanuel Nsofor, Spyros Tragoudas, Brian Chapman, Lynn Lindberg, Parker Rippinger, Kevin Clark, Amy McMorrow Hunter, Anthony Henson, Arien Herrmann, Dale Ritzel, Gary Shafer, Gregory Norris, Jane Cogie, Larry Erwin, Linda Flowers, Mark Bollmann, Shane Hermetz, Steven Mitchell, Thomas Drea, Wade Halva. 2023. Jackson County LEAP Initiative. US Department of Energy. No defined dollar amount. Provided one year of technical assistance from the Department of Energy's National Renewable Energy Laboratory to assist Jackson County, IL in the transition to clean affordable energy.

Bennett, Shane, Eric Brevik, John Groninger, Susan Graham, and Marianne Schoonover. 2022. Agricultural Career Training and Development. Illinois Farm Bureau. \$22,500 for one year.

Moorberg, Colby J., Eric C. Brevik, Tiffany Carter, Garrett Liles, and Iryna McDonald. 2020. Evaluating an Open Access Soil and Water Conservation Textbook. Association of Public Land-Grant Institutions Innovative Teaching Award. \$5,000.

Brevik, Eric C. 2020. International travel grant to attend the Global Symposium on Soil Diversity. ND NSF EPSCoR. \$3,000 for one year.

Brevik, Eric C. 2019. Acquisition of a Giddings hydraulic sampling system. ND NSF EPSCoR Track 1 – Equipment Grant Program. \$39,689 for one year.

Brevik, Eric C. 2019. Developing earth science laboratory activities for the elementary education major. NASA faculty fellowship through the North Dakota Space Grant Consortium, \$4,500 for one year.

Brevik, Eric C. 2018. Travel expenses to participate in the conference *TERRAenVISION: Science for Society*. The Organisation for Economic Co-operation and Development (OECD). \$3,025 for one year.

Xiao, Feng, Khwaja Hossain, and Eric C. Brevik. 2017. Development of a Novel Porous Carbonaceous Material Enhanced for Control of Nitrous Oxide Emissions from Agricultural Soils. ND NSF EPSCoR Track-1 Emerging Area Seed Program. \$40,000 for one year.

Sauer, Thomas, Eric C. Brevik. 2016. Woody Bioenergy Feedstock from Marginal Agricultural Lands: Red Cedar Feedstock Quality and Environmental Sustainability. North Central Regional Sun Grant Center/USDA-NIFA. Agreement No. 58-5030-7-050. 13,580 for two years.

Brevik, Eric C. 2016. Lloyd R. Frederick Soil Teaching Travel Study Award, Soil Science Society of America. \$4,000 for one year.

Aune, Patricia, Linda Hugelen, Eric Brevik, and Frank Kutka. 2016. Optimal garden establishment and maintenance. USDA NIFA. \$220,000 for three years. USDA award number 2016-38424-25810.

Fike, Hildee, and Eric C. Brevik. 2015. BEST Robotics travel grant. North Dakota Department of Career and Technical Education Grant for Innovation. \$8,000 for one year.

Weindorf, David C. and Eric C. Brevik. 2015. Pilot Study on the Use of PXRF for Wastewater Analysis. Challenge Cost Share Agreement with US Forest Service. \$2,500 for one year. Forest Service Agreement No. 15-CS-11011800-013.

Brevik, Eric, Joshua Steffan, and Paul Barnhart. 2015. Ecosystem alternations following conversion of CRP to no-till dryland agriculture. North Dakota EPSCoR Primarily Undergraduate Institutions Grant. \$192,132.56 for five years. National Science Foundation Grant Number IIA-1355466.

Brevik, Eric C. 2014. Adding online homework to a Physical Geology class. NASA faculty fellowship through the North Dakota Space Grant Consortium, \$4,500.

Brevik, Eric C. 2013. Teaching to Meet the New Common Core in Mathematics and Science. Math-Science Partnership grant through the North Dakota Department of Public Instruction. \$448,330 for two years.

Brevik, Eric C. 2012. Strengthening the Mathematics Foundations for Success in Algebra. Math-Science Partnership grant through the North Dakota Department of Public Instruction. \$315,998 for one year.

Brevik, Eric C. and Seth Soman. 2011. Undergraduate Research with the NASA Goddard Space Flight Center through the North Dakota Space Grant Consortium, \$13,317.

Brevik, Eric C. 2010. SARE travel grant to attend NRCS Soil Biology Workshop in Pierre, SD. \$485.

Brevik, Eric C., and Corinne E. Brevik. 2010. The Sliding Rocks of Death Valley. Undergraduate research grant through Dickinson State University, \$1,583.59.

Brevik, Eric C. and Seth Soman. 2010. Undergraduate Research with the NASA Goddard Space Flight Center through the North Dakota Space Grant Consortium, \$15,000.

Brevik, Eric C. 2010. NASA faculty fellowship through the North Dakota Space Grant Consortium, \$2,800.

Brevik, Eric C. 2009. NASA faculty fellowship through the North Dakota Space Grant Consortium. \$8,500.

Brevik, Eric C. 2008. Acquisition of soil strength testing equipment. North Dakota Grain Dealers Educational Foundation instructional aid grant. \$673.

Brevik, Eric C. 2008. NASA faculty fellowship through the North Dakota Space Grant Consortium. \$5,000.

Brevik, Eric C. 2007. National Association of Geoscience Teachers grant to bring Dr. Patricia Kelly to DSU to give a workshop to faculty and students on the teaching of evolution and give a public presentation on evolution/creation. The grant provided travel funds for Dr. Kelly to come to Dickinson.

Brevik, Eric C. 2006. Water color as it relates to dissolved metal content. Valdosta State University Faculty Development Grant. \$1,000.

Brevik, Eric C. 2005. Research in Soil Chemistry and Soil Science History. Valdosta State University Faculty Development Grant. \$1,000.

Bechler, David, Can Denizman, Jim Nienow, Eric Brevik, Linda Chamberlin, Judith Grable, Michael Smith, and Gary Wood. 2004. The Watershed Restoration Action Strategy Development and Implementation in the Alapahoochee River Watershed. EPA 319 Grant. \$167,670 for three years.

Brevik, Eric C. 2004. Studies in Anthropogenic Soil Compaction. Valdosta State University Faculty Development Grant. \$1,000 for one year.

Brevik, Eric C. 2003. Historical Gully Erosion in Providence Canyon, Georgia as Documented by Aerial Photography. Valdosta State University Course/Curriculum Development Grant. \$496 for one year.

Brevik, Eric C. 2003. Research in Short Term Soil Formation and Carbon Sequestration. Valdosta State University Faculty Development Grant. \$900 for one year.

Brevik, Eric C. 2003. Acquisition of a Giddings Soil Probe. USDA CSREES grant #2004-35107-14149. \$24,064 for one year.

Brevik, Eric C. 2002. Research in Soil Formation, Carbon Sequestration, and Journal Page Charges. Valdosta State University Faculty Development Grant. \$885.40 for one year.

Brevik, Eric C. 2001. Developing an In-House Laboratory Manual for the Introduction to Landforms Class. Valdosta State University Course/Curriculum Development Grant. \$500 for one year.

Brevik, Eric C., and Thomas E. Fenton. 2000. Soil Morphology – Groundwater Relationships in Central Iowa. Iowa Science Foundation Grant #ISF-00-05. \$4,097 for one year.

Moran, Louis P., and Eric C. Brevik. 1999. Soil and Plant Interactions along the Mormon Trail in a South-central Iowa Pasture. Iowa State University Graduate Student Senate Professional Advancement Grant. \$480 for one year.

Brevik, Eric C. 1998. Long-term Soil Recovery from Compaction. Iowa State University Graduate Student Senate Professional Advancement Grant. \$300 for one year.

Brevik, Eric C., and Thomas E. Fenton. 1998. Long-term Effect of Concentrated Traffic on Soil Properties. Iowa Academy of Science grant #ISF-98-06. \$3,416 for one year.

**Revised 13 January 2026**