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 Unpublished Doctoral dissertation, Iowa State University, Ames. 148 p.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 Unpublished Masters thesis, University of North Dakota, Grand Forks. 127 p.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 Unpublished Senior Honors thesis, University of North Dakota, Grand Forks. 64 p.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
2021-present – Professor of Soils and Geology, Southern Illinois University Carbondale
2021-present – 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
Spring 1992 – Undergraduate Teaching Assistant, University of North Dakota
1990-1992 – Undergraduate Research Assistant, University of North Dakota

Teaching
Southern Illinois University
- PSAS 390 – Soil Judging

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 Elsevier Top 2% of World's Scientists list (also 2020, 2021, 2022, 2023)
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, Gamma Sigma Delta, Gamma Theta Upsilon, Sigma Xi, Phi Kappa Phi.

Publications

Peer-Reviewed Journal Articles

ORCID ID: 0000-0002-6004-0018
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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 Törős, 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, Raziyeh 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-farraj, 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, Áron 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 Törős, 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/10.1177/11786221211042 38

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 Elboraey, 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.

147. Elbasiouny, Heba, Marwa Darwesh, Hala Elbeltagy, Fatma G. Abo-alhamd, Ahlam A. Amer, Mariam A. Elsegaiy, Israa A. Khattab, Esraa A. Elsharawy, Fathy Ebehiry, Hassan El-Ramady, and Eric C. Brevik. 2021. Ecofriendly Remediation Technologies for Wastewater Contaminated with Heavy Metals with Special Focus on Using Water Hyacinth and Black Tea Wastes: A Review. Environmental Monitoring and Assessment 193:449. Doi: 10.1007/s10661-021-09236-2

146. Lal, Rattan, Johan Bouma, Eric Brevik, Lorna Dawson, Damien J. Field, Bruno Glaser, Ryusuke Hatano, Alfred Hartemink, Takashi Kosaki, Bruce Lascelles, Curtis Monger, Cristine Muggler, Georges Martial Ndzana, Stefan Norra, Xicai Pan, Remigio Paradelo, Laura Bertha Reyes-Sánchez, Taru Sandén, Bal Ram Singh, Heide Spiegel, Junta Yanai, and Jiabao Zhang. 2021. Soils and Sustainable Development Goals of the United Nations: An IUSS Perspective. Geoderma Regional. e00398. https://doi.org/10.1016/j.geodrs.2021.e00398

145. Dawson, Lorna, Eric C. Brevik, and Laura Bertha Reyes-Sánchez. 2021. International gender equity in soil science. European Journal of Soil Science 72:1929–1939. DOI:10.1111/ejss.13118

144. Silva-Parra, Amanda, Juan Manuel Trujillo-González, and Eric C. Brevik. 2021. Greenhouse gas balance and mitigation potential of agricultural systems in Colombia: A systematic analysis. Greenhouse Gases: Science and Technology 11:554–572. https://doi.org/10.1002/(ISSN)2152-3878

143. Brevik, Eric C., April Ulery, and Amy Smith Muise. 2021. Pivoting to online laboratories due to COVID-19 using the “Science of Agriculture” digital tools: A case study. Natural Sciences Education. 50:e20045. https://doi.org/10.1002/nse2.20045

142. Keshavarzi, Ali, Vinod Kumar, Güneş Ertunç, and Eric C. Brevik. 2021. Ecological Risk Assessment and Source Apportionment of Heavy Metals Contamination: An Appraisal Based on the Tellus Soil Survey. Environmental Geochemistry and Health 43(5): 2121-2142. https://doi.org/10.1007/s10653-020-00787-w

141. Sulieman, Magboul M, Abdelazeem Sh. Sallam, Eric C. Brevik, Abdullah S. Al-farraj. 2021. Early indicators of pedogenesis at Harrat Khaybar volcano, Saudi Arabia. Geoderma. 383:114743. https://doi.org/10.1016/j.geoderma.2020.114743

140. Ibáñez, J.J., B. Ramírez-Rosario, L.F. Fernández-Pozo, E.C. Brevik. 2021. Land System Diversity, Scaling Laws, and Polygons Map Analysis. European Journal of Soil Science 72: 656-666. https://doi.org/10.1002/EJSS.13035

139. Ibáñez, J.J., B. Ramírez-Rosario, L.F. Fernández-Pozo, and E.C. Brevik. 2021. Exploring the Scaling Law of Geographical Space: Gaussian versus Paretian thinking. European Journal of Soil Science 72: 495-509. https://doi.org/10.1002/EJSS.13031

138. El-Ramady, Hassan, Eric Brevik, Megahed Mohamed Amer, Tamer Elsakhawy, Alaa El-Dein Omara, Heba Elbasiouny, Fathy Elbehiry, Ahmed Ali Mosa, Ayman El-Ghamry, Yousry Bayoumi, and Tarek A. Shalaby. 2020. Soil and Air Pollution in the Era of COVID-19: A Global Issue. Egyptian Journal of Soil Science 60(4): 437-450. https://doi.org/10.21608/EJSS.2020.49996.1411

137. El-Ramady, Hassan, Yahya Z. Eid, and Eric C. Brevik. 2020. New Pollution Challenges in Groundwater and Wastewater Due to COVID-19. Journal of Sustainable Agricultural Sciences 46(4):61-76. https://doi.org/10.21608/jsas.2020.51353.1257

136. Brevik, Eric C., and Karen Vaughan. 2020. Degrees earned by faculty teaching in soil science preparatory programs at universities in the USA. Natural Sciences Education 49, e20033. https://doi.org/10.1002/nse2.20033

135. Brevik, Eric C., Holly Dolliver, Susan Edinger-Marshall, Danny Itkin, Jodi Johnson-Maynard, Garrett Liles, Monday Mbila, Colby Moorberg, Yaniria Sanchez-de Leon, Joshua J. Steffan, April Ulery, Karen Vaughan. 2020. Undergraduate degrees that train students for soil science careers at universities in the USA and its territories. Soil Science Society of America Journal 84: 1797-1807. https://doi.org/10.1002/saj2.20140

134. Steffan, Joshua J., Jade A. Derby*, and Eric C. Brevik. 2020. Soil Pathogens that may Potentially Cause Pandemics, Including Severe Acute Respiratory Syndrome (SARS) Coronaviruses. Current Opinion in Environmental Science & Health 17:35-40. https://doi.org/10.1016/j.coesh.2020.08.005

133. Rodrigo-Comino, Jesús, Manuel López-Vicente, Vinod Kumar, Andrés Rodríguez-Seijo, Orsolya Valkó, Claudia Rojas, Hamid Reza Pourghasemi, Luca Salvati, Noura Bakr, Emmanuelle Vaudour, Eric C. Brevik, Maja Radziemska, Manuel Pulido, Simone Di Prima, Marta Dondini, Wim de Vries, Erika S. Santos, and Panos Panagos. 2020. Soil science challenges in a new era: A transdisciplinary overview of relevant topics. Air, Soil, and Water Research. 13:1-17. https://doi.org/10.1177/1178622120977491

132. El-Ramady, Hassan, Salah E-D Faizy, Neama Abdalla, Hussein Taha, Éva Domokos-Szabolcsy, Miklós Fari, Tamer Elsakhawy, Alaa El-Dein Omara, Tarek Shalaby, Yousry Bayoumi, Said Shehata, Christoph-Martin Geilfus, and Eric C. Brevik. 2020. Selenium and Nano-Selenium Biofortification for Human Health: Opportunities and Challenges. Soil Systems 4: 57. https://doi.org/10.3390/soilsystems4030057

131. Lal, Rattan, Eric C. Brevik, Lorna Dawson, Damien Field, Bruno Glaser, Alfred Hartemink, Ryusuke Hatano, Curtis Monger, Thomas Scholten, Bal Ram Singh, Adelheid Spiegel, Fabio Terribile, Angelo Basile, Yakun Zhang, Rainer Horn, Takashi Kosaki, Laura Bertha Reyes Sánchez, Bruce Lascelles, and Sigbert Hubert. 2020. Managing Soils for Recovering from the COVID-19 Pandemic. Soil Systems 4: 46. https://doi.org/10.3390/soilsystems4030046

130. Brevik, Eric C. 2020. The effect of adding online homework assignments to a small introductory physical geology class. Natural Sciences Education 49: e20020. https://doi.org/10.1002/nse2.20020

129. Mohammed, Safwan, Hasan Habi, Haidr Ali, Sami Alhenawi, Samer Kiwan, Samar Ghanem, Karam Alsafadi, Eric C. Brevik, Magboul M. Sulieman, Endre Harsányi. 2020. Soils of the Southern Syria- A big database for the future land management planning. Data in Brief 31:105832. https://doi.org/10.1016/j.dib.2020.105832

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North Dakota Academy of Science Communications

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5. Brevik, Eric C. 1998. Using Soil Maps to Better Define the Herman Strandline in Grand Forks County. Proceedings of the North Dakota Academy of Science, 52: 40.

4. Brevik, Eric C. and William D. Gosnold. 1998. Asthenosphere Viscosity Beneath the Southern Lake Agassiz Basin. Proceedings of the North Dakota Academy of Science, 52: 46.

3. Brevik, Eric C. and John R. Reid. 1998. Assigning Dates to Lake Agassiz Strandlines with a Post-Glacial Rebound Curve. Proceedings of the North Dakota Academy of Science, 52: 45.

2. Brevik, Eric C. and John R. Reid. 1994. Ice Thickness in the Lake Agassiz Basin During the Wisconsinan. Proceedings of the North Dakota Academy of Science, 48: 80.

1. Brevik, Eric C. and John R. Reid. 1993. Evidence of Catastrophic Debris Flows in Southeastern Manitoba. Proceedings of the North Dakota Academy of Science, 47: 46.

Educational Materials

20. Brevik, Eric C. 2007. Explain the difference between a rock and a mineral. Georgia Performance Standards for 3rd Grade Science Video Series, Standard S3E1a. Valdosta State University.

19. Brevik, Eric C. 2007. Recognize the physical attributes of rocks and minerals using observation, measurement, and simple tests. Georgia Performance Standards for 3rd Grade Science Video Series, Standard S3E1b. Valdosta State University.

18. Brevik, Eric C. 2007. Use observation to compare the similarities and differences of texture, particle size, and color in top soils. Georgia Performance Standards for 3rd Grade Science Video Series, Standard S3E1c. Valdosta State University.

17. Brevik, Eric C. 2007. Investigate fossils by observing authentic fossils or models of fossils or view information resources about fossils as evidence of organisms that lived long ago. Georgia Performance Standards for 3rd Grade Science Video Series, Standard S3E2a. Valdosta State University.

16. Brevik, Eric C. 2007. Describe how a fossil is formed. Georgia Performance Standards for 3rd Grade Science Video Series, Standard S3E2b. Valdosta State University.

15. Brevik, Eric C. 2007. Explain the day/night cycle of the earth using a model. Georgia Performance Standards for 4th Grade Science Video Series, Standard S4E2a. Valdosta State University.

14. Brevik, Eric C. 2007. Explain the sequence of the phases of the moon. Georgia Performance Standards for 4th 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 4th 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 4th 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 4th 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 4th 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 6th 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 6th 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 6th 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 6th 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 6th 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 6th 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, 2nd 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. Groszos, and Martha A. Leake. 2003. Laboratory Manual for Physical Geology, 4th 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 Törős, 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. Masto, Eric Brevik, Cesar Azorin-Molina, and Artemi Cerdà. 2015. The impact of road and railway embankments on runoff and soil erosion in the Cànyoles 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.

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; 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 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-present
Editorial Board, *Geography and Sustainability*, 2020-present
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
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-present.

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 75th 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

External Thesis/Dissertation Reviewer
- 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
- 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 – $1,622,776.56

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.

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 Manuel 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 15 December 2024