

# Charles B Connor

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## Areas of academic specialization

geocomputation · volcanology · potential field geophysics · geothermal exploration · hazard assessment

## Education

- 1988 PHD in Geology, Dartmouth College, Hanover, NH, USA
- 1984 MS in Geology, Dartmouth College, Hanover, NH, USA
- 1982 BS in Geology, University of Illinois, Urbana, IL, USA
- 1982 BA in Anthropology, University of Illinois, Urbana, IL, USA

## Employment History

- 2001- Professor, University of South Florida, Tampa, FL, USA
- 1998–2001 Principal Scientist, Southwest Research Institute, San Antonio, Tx, USA
- 1992–1998 Senior Research Scientist, Southwest Research Institute, San Antonio, Tx, USA
- 1991–1992 Associate Professor, Florida International University, Miami, FL, USA
- 1987–1991 Assistant Professor, Florida International University, Miami, FL, USA

## Administrative Activities

- 2012–2015 Associate Dean of Research and Scholarship, College of Arts and Sciences, University of South Florida. *Explore, develop, and manage funding opportunities for faculty in the College.* The College consists of more than 500 faculty and 16 000 students with \$15.5 M USD funded on 97 new awards, and 385 grant proposals from 14 departments in 2013.
- 2001–2009 Chair, Department of Geology, University of South Florida. During my service as Chair, this department grew from 8 tenure and tenure-track faculty to 25 and annual funding grew from \$0.3 M per year to approximately \$2.1 M per year. Graduate student enrollment increased from

5 PhD candidates to 64 PhD candidates, with parallel increase in undergraduate enrollment.

- 2010–2012 Chair, Volcanology, Petrology, and Geochemistry committee for Education and Outreach, American Geophysical Union
- 2008–2010 Leader, International Team for assessment of volcanic hazards at the Armenia nuclear power plant site on behalf of the Minister of Energy, Armenia, and the World Bank
- 2004–2011 Chair, Committee to develop safety guidelines for assessing volcanic hazards to nuclear facilities, International Atomic Energy Agency, resulting in first global standard on safe siting of nuclear power plants with respect to volcanic hazards

## Professional Activities

- 2013– Founding Editor of *Statistics in Volcanology*, an open-source, open-access, peer-reviewed journal published by the Commission on Statistics in Volcanology on behalf of the International Association of Volcanology and Chemistry of Earth's Interior (IAVCEI)
- 2003–2013 Member, International Tectonics Team advising the Nuclear Waste Organization of Japan, focusing on developing standards for the safe siting of high-level radioactive waste facilities in Japan
- 2009 Editor, *Volcanic and Tectonic Hazard Assessment for Nuclear Facilities*, published by Cambridge University Press
- 2008 Development of Spreadsheets across the Curriculum: The Physical Volcanology Collection, SERC (open-source content for undergraduate education in volcanology)
- 2003–2008 Member, Expert panel for assessment of volcanic hazards at Yucca Mountain, U.S. Department of Energy
- 2007 Co-founder, IAVCEI Commission on Statistics in Volcanology
- 2006 Editor, *Statistics in Volcanology*, IAVCEI Special Publication, published by the Geological Society of London
- 2002 Leverhulme Fellow, University of Bristol
- Development of Tephra2, an open-source and web-available code for modeling tephra dispersion
- 1999–2000 Member, Committee on Review of the USGS Volcanic Hazards Program, U.S. National Research Council for the National Academy of Sciences

## Publications

### EDITED AND CO-AUTHORED BOOKS

- 2019 Varley, N., Connor, C., and Komorowski, J., editors (2019). *Volcán de Colima: Portrait of a Persistently Hazardous Volcano*. Springer, New York.
- 2017 Committee (2017). *Volcanic Eruptions Repose, and Their Unrest, Precursors, and Timing*. National Academy Press, National Research Council, Washington DC.
- 2016 Committee (2016). *Volcanic Hazard Assessments for Nuclear Installations: Methods and Examples in Site Evaluation*. Number 1795 in IAEA Safety Standards Series TECDOC. International Atomic Energy Agency, Vienna, Austria.
- 2012 Committee (2012). *Volcanic Hazards in Site Evaluation for Nuclear Installations*. IAEA Safety Standards Series SSG-21. International Atomic Energy Agency, Vienna, Austria.
- 2009 Connor, C. B., Chapman, N. A., and Connor, L. J., editors (2009a). *Volcanic and Tectonic Hazard Assessment for Nuclear Facilities*. Cambridge University Press, Cambridge, UK.
- 2006 Mader, H. M., Coles, S. G., Connor, C. B., and Connor, L. J., editors (2006). *Statistics in Volcanology*. Geological Society of London, London, UK.
- 2000 Committee (2000). *Review of the U.S. Geological Survey's Volcanic Hazards Program*. National Academy Press, National Research Council, Washington DC.

### BOOK CHAPTERS

- 2019 Connor, C. B., Connor, L. J., Bonadonna, C., Luhr, J., Savov, I. P., and Navarro-Ochoa, C. (2019). Modeling tephra thickness and particle size distribution of the 1913 eruption of Volcán de Colima, Mexico. In N. Varley, C. B. C. and Komorowski, J.-C., editors, *Volcan de Colima: Portrait of a Persistently Active Volcano*, Special Publications, pages 81–110. Springer.
- 2018 Charbonnier, S., Macorps, E., Connor, C. B., Connor, L. J., and Richardson, J. A. (2018b). How to correctly evaluate the performance of volcanic mass flow models used for hazard assessment? In Thouret, J. C., editor, *Hazard and Risk Mapping: The Arequipa – El Misti Case Study and other Threatened Cities*, pages 15–20. Presses Universitaires Blaise Pascal.
- 2015 Connor, C. B., Bebbington, M., and Marzocchi, W. (2015). *Encyclopedia of Volcanology*, chapter 51: Probabilistic Volcanic Hazard Assessment, pages 897–910. Academic Press.
- Valentine, G. A. and Connor, C. B. (2015). *Encyclopedia of Volcanology*, chapter 23: Basaltic Volcanic Fields, pages 423–440. Academic Press.
- 2013 Saballos, J. A., Malservisi, R., Connor, C. B., LaFemina, P., and Wetmore, P. (2013). Gravity and geodesy at Concepción volcano, Nicaragua. In Rose, W., Palma, J. L., Delgado Granados, H., and Varley, N., editors, *Understanding Open-Vent Volcanism and Related Hazards*, Special Paper 498, pages 77–88. Geological Society of America.
- 2009 Connor, C. B. and Connor, L. J. (2009). Estimating spatial density with kernel methods. In Connor, C. B., Chapman, N. A., and Connor, L. J., editors, *Volcanic and Tectonic Hazard Assessment for Nuclear Facilities*, pages 331–343. Cambridge University Press.
- Connor, C. B., Sparks, R. S. J., Díez, M., Volentik, A. C. M., and Pearson, S. C. P. (2009c). The nature of volcanism. In Connor, C. B., Chapman, N. A., and Connor, L. J., editors, *Volcanic and Tectonic Hazard Assessment for Nuclear Facilities*, pages 74–115. Cambridge University Press.
- Hill, B. E., Aspinall, W. P., Connor, C. B., Godoy, A. R., Komorowski, J. C., and Nakada, S. (2009). Recommendations for assessing volcanic hazards at sites of nuclear installations. In Connor,

C. B., Chapman, N. A., and Connor, L. J., editors, *Volcanic and Tectonic Hazard Assessment for Nuclear Facilities*, pages 566–592. Cambridge University Press.

Mahony, S. H., Sparks, R. S. J., Connor, L. J., and Connor, C. B. (2009). Exploring long-term hazards using a Quaternary volcano database. In Connor, C. B., Chapman, N. A., and Connor, L. J., editors, *Volcanic and Tectonic Hazard Assessment for Nuclear Facilities*, pages 326–345. Cambridge University Press.

Volentik, A. C. M., Connor, C. B., Connor, L. J., and Bonadonna, C. (2009). Aspects of volcanic hazard assessment for the Bataan nuclear power plant, Luzon Peninsula, Philippines. In Connor, C. B., Chapman, N. A., and Connor, L. J., editors, *Volcanic and Tectonic Hazard Assessment for Nuclear Facilities*, pages 229–256. Cambridge University Press.

Lejeune, A.-M., Hill, B. E., Woods, A. W., Sparks, R. S. J., and Connor, C. B. (2009). Intrusion dynamics for volatile-poor basaltic magma into subsurface nuclear installations. In Connor, C. B., Chapman, N. A., and Connor, L. J., editors, *Volcanic and Tectonic Hazard Assessment for Nuclear Facilities*, pages 429–451. Cambridge University Press.

2006 Connor, L. J. and Connor, C. B. (2006). Inversion is the key to dispersion: understanding eruption dynamics by inverting tephra fallout. In Mader, H., Coles, S. C., Connor, C. B., and Connor, L. J., editors, *Statistics in Volcanology*, pages 231–242. Geological Society, London.

Connor, C. B., McBirney, A. R., and Furlan, C. (2006). What is the probability of explosive eruption at a long-dormant volcano? In Mader, H. M., Coles, S. G., Connor, C. B., and Connor, L. J., editors, *Statistics in Volcanology*, number 1 in Special Publications of IAVCEI, pages 39–48. Geological Society of London.

Weller, J. N., Martin, A. J., Connor, C. B., Connor, L. J., and Karakhanian, A. (2006). Modelling the spatial distribution of volcanoes: An example from Armenia. In Mader, H. M., Coles, S. G., Connor, C. B., and Connor, L. J., editors, *Statistics in Volcanology*, number 1 in Special Publications of IAVCEI, pages 77–88. Geological Society of London.

2004 Lewicki, J. L., Hilley, G. E., and Connor, C. B. (2004). The scaling relationship between self-potential and fluid flow on Masaya volcano, Nicaragua. In Wanty, R. B. and Seal, R. R., editors, *Water-Rock Interaction*, pages 153–156. Taylor and Francis Group.

2000 Connor, C. B. and Conway, F. M. (2000). *Encyclopedia of Volcanology*, chapter Basaltic Volcanic Fields, pages 331–343. Academic Press.

#### JOURNAL ARTICLES

2019 Crummy, J. M., Savov, I. P., Loughlin, S. C., Connor, C. B., Connor, L., and Navarro-Ochoa, C. (2019). Challenges of determining frequency and magnitudes of explosive eruptions even with an unprecedented stratigraphy. *Journal of Applied Volcanology*, 8(1):3.

Germa, A., Perry, C., Quidelleur, X., Calvert, A., Clynne, M., Connor, C. B., Connor, L. J., Malservisi, R., and Charbonnier, S. (2019). Temporal relationship between the Lassen volcanic center and mafic regional volcanism. *Bulletin of Volcanology*, 81(7):38.

Riggs, N., Ort, M., Connor, C., Alfano, F., and Conway, M. (2019). Volcanology and associated hazards of the San Francisco volcanic field. *Geologic Excursions in Southwestern North America*, 55:127–146.

Sieron, K., Ferrés, D., Siebe, C., Constantinescu, R., Capra, L., Connor, C., Connor, L., Groppelli, G., and Zuccolotto, K. G. (2019). Ceboruco hazard map: part II – modeling volcanic phenomena and construction of the general hazard map. *Natural Hazards*, pages 1–41.

2018

- Gallant, E., Richardson, J., Connor, C., Connor, L., and Wetmore, P. (2017). A new approach to probabilistic lava flow hazard assessments, applied to the Idaho National Laboratory, eastern Snake River Plain, Idaho, USA. *Geology*, 45:895–898.
- Swindles, G., Watson, E., Savov, I. P., Lawson, I., Schmidt, A., Hooper, A., Hooper, C., Connor, C., Gloor, M., and Carrivick, J. L. (2018). Climatic control on Icelandic volcanic activity during the mid-Holocene. *Geology*, 46:47–50.
- Charbonnier, S., Connor, C. B., Sheridan, M., Connor, L. J., Oliva-Hernandez, J. P., and Richardson, J. (2018a). Models of the October 2005 Panabaj lahars (Guatemala). *Bulletin of Volcanology*, 80(1):4.
- 2017 Deng, F., Connor, C. B., Malservisi, R., Connor, L. J., White, J. T., Germa, A., and Wetmore, P. (2017). A geophysical model for the origin of volcano vent clusters in a Colorado Plateau volcanic field. *Journal of Geophysical Research: Solid Earth*, 122:DOI10.1002/2017JB014434.
- White, J. T., Connor, C. B., Connor, L., and Hasenaka, T. (2017). Efficient inversion and uncertainty quantification of a tephra fallout model. *Journal of Geophysical Research: Solid Earth*, 122:DOI: 10.1002/2016JB013682.
- Watson, E. J., Swindles, G. T., Savov, I. P., Lawson, I. T., Connor, C. B., and Wilson, J. A. (2017). Estimating the frequency of volcanic ash clouds over northern Europe. *Earth and Planetary Science Letters*, 460:41–49.
- Richardson, J. A., Wilson, J. A., Connor, C. B., Bleacher, J. E., and Kiyosugi, K. (2017). Recurrence rate and magma effusion rate for the latest volcanism on Arsia Mons, Mars. *Earth and Planetary Science Letters*, 458:170–178.
- 2016 Biass, S., Bonadonna, C., Connor, L., and Connor, C. (2016). Tephraprob: a Matlab package for probabilistic hazard assessments of tephra fallout. *Journal of Applied Volcanology*, 5(1):10.
- George, O. A., Malservisi, R., Govers, R., Connor, C. B., and Connor, L. J. (2016). Is uplift of volcano clusters in the Tohoku Volcanic Arc, Japan, driven by magma accumulation in hot zones? a geodynamic modeling study. *Journal of Geophysical Research: Solid Earth*, 121:4780–4796.
- Alfano, F., Bonadonna, C., Watt, S., Connor, C., Volentik, A., and Pyle, D. M. (2016). Reconstruction of total grain size distribution of the climactic phase of a long-lasting eruption: the example of the 2008–2013 Chaitén eruption. *Bulletin of Volcanology*, 78(7):1–21.
- Dominguez, L., Pioli, L., Bonadonna, C., Connor, C. B., Andronico, D., Harris, A. J. L., and Ripepe, M. (2016). Quantifying unsteadiness and dynamics of pulsatory volcanic activity. *Earth and Planetary Science Letters*, 444:160–168.
- Connor, C. B. and Vacher, H. L. (2016). Learning volcanology: Modules to facilitate problem solving by undergraduate volcanology students. *Statistics in Volcanology*, 2:1–13.
- 2015 George, O. A., McIlrath, J., Farrell, A., Gallant, E., Tavarez, S., Marshall, A., McNiff, C., Njoroge, M., Wilson, J., Connor, C. B., Connor, L. J., and Kruse, S. (2015). High-resolution ground-based magnetic survey of a buried volcano: Anomaly B, Amargosa Desert, NV. *Statistics in Volcanology*, 1(1):1–23.
- White, J. T., Karakhanian, A., Connor, C. B., Connor, L. J., Hughes, J. D., Malservisi, R., and Wetmore, P. H. (2015). Coupling geophysical investigation with hydrothermal modeling to constrain the enthalpy classification of a potential geothermal resource. *Journal of Volcanology and Geothermal Research*, 298:59–70.
- Magill, C., Mannen, K., Connor, L., Bonadonna, C., and Connor, C. (2015). Simulating a multi-phase tephra fall event: Inversion modeling for the 1707 Hōei eruption of Mt. Fuji, Japan. *Bulletin of Volcanology*, 77:81, DOI 10.1007/s00445-015-0967-2.

- Kiyosugi, K., Connor, C. B., Sparks, R. S. J., Crowweller, H. S., Brown, S. K., Siebert, L., Wang, T., and Takarada, S. (2015). How many explosive eruptions are missing from the geologic record? Analysis of the quaternary record of large magnitude explosive eruptions in Japan. *Journal of Applied Volcanology*, 4(1):1–15.
- 2014 Kiyosugi, K., Horikawa, Y., Nagao, T., Itaya, T., Connor, C. B., and Tanaka, K. (2014). Scoria cone formation through a violent Strombolian eruption: Irao Volcano, SW Japan. *Bulletin of Volcanology*, 76(1):1–14.
- Saballos, J. A., Conde, V., Malservisi, R., Connor, C. B., Álvarez, J., and Muñoz, A. (2014). Relatively short-term correlation among deformation, degassing, and seismicity: a case study from Concepción volcano, Nicaragua. *Bulletin of Volcanology*, 76(8):1–11.
- 2013 Swindles, G. T., Savov, I. P., Connor, C. B., Carrivick, J., Watson, E., and Lawson, I. T. (2013). Volcanic ash clouds affecting Northern Europe: the long view. *Geology Today*, 29(6):214–217.
- Courtland, L., Kruse, S., and Connor, C. B. (2013). Violent strombolian or not? using ground penetrating radar to distinguish deposits of low and high energy scoria cone eruptions. *Bulletin of Volcanology*, 75(12):1–13.
- Bonadonna, C., Cioni, R., Pistolesi, M., Connor, C. B., Scollo, S., Pioli, L., and Rosi, M. (2013). Determination of the largest clast sizes of tephra deposits for the characterization of explosive eruptions: a study of the IAVCEI commission on tephra hazard modelling. *Bulletin of Volcanology*, 75(1):1–15.
- Charbonnier, S. J., Germa, A., Connor, C. B., Gertisser, R., Preece, K., Komorowski, J.-C., Lavigne, F., Dixon, T., and Connor, L. J. (2013b). Evaluation of the impact of the 2010 pyroclastic density currents at Merapi volcano from high-resolution satellite imagery, field investigations and numerical simulations. *Journal of Volcanology and Geothermal Research*.
- 2012 Connor, L. J., Connor, C. B., Meliksetian, K., and Savov, I. (2012b). Probabilistic approach to modeling lava flow inundation: a lava flow hazard assessment for a nuclear facility in Armenia. *Journal of Applied Volcanology*, 1(3):doi:10.1186/2191–5040–1–3.
- Kiyosugi, K., Connor, C. B., Wetmore, P. H., Ferwerda, B. P., Germa, A. M., Connor, L. J., and Hintz, A. R. (2012). Relationship between dike and volcanic conduit distribution in a highly eroded monogenetic volcanic field, San Rafael, Utah, USA. *Geology*, 40:695 – 698.
- Courtland, L. M., Kruse, S. E., Connor, C. B., Connor, L. J., Savov, I. P., and Martin, K. T. (2012b). GPR investigation of tephra fallout, Cerro Negro volcano, Nicaragua: a method for constraining parameters used in tephra sedimentation models. *Bulletin of Volcanology*, 74:doi:10.1007/s00445–012–0603–3.
- Courtland, L. M., Connor, C. B., Connor, L. J., and Bonadonna, C. (2012a). Introducing geoscience students to numerical modeling of volcanic hazards: The example of Tephra2 on VHub.org. *Numeracy*, 5:doi:10.5038/1936–4660.5.2.6.
- Pearson, S. C. P., Kiyosugi, K., Lehto, H. L., Saballos, J. A., Connor, C. B., and Sanford, W. E. (2012). Integrated geophysical and hydrothermal models of flank degassing and fluid flow at Masaya volcano, Nicaragua. *Geochemistry, Geophysics, and Geosystems*, 13:doi:10.1029/2012GC004117.
- Richardson, J. A., Bleacher, J. E., Connor, C. B., and Connor, L. J. (2012a). Using spatial density to characterize volcanic fields on Mars. *43<sup>rd</sup> Lunar and Planetary Science Conference*, page 2314.pdf.
- 2011 Swindles, G. T., Lawson, I. T., Savov, I. P., Connor, C. B., and Plunkett, G. (2011). A 7000 yr perspective on volcanic ash clouds affecting northern Europe. *Geology*, 39(9):887–890.
- Alfano, F., Bonadonna, C., Volentik, A. C. M., Connor, C. B., Watt, S. F. L., Pyle, D. M., and Connor, L. J. (2011). Tephra stratigraphy and eruptive volume of the May, 2008, Chaitén eruption,

- Chile. *Bulletin of Volcanology*, 73:613–630.
- Connor, C. B. (2011). A quantitative literacy view of natural disasters and nuclear facilities. *Numeracy*, 4(2):10.5038/1936–4660.4.2.2.
- 2010 Kiyosugi, K., Connor, C. B., Zhao, D., Connor, L. J., and Tanaka, K. (2010). Relationships between temporal-spatial distribution of monogenetic volcanoes, crustal structure, and mantle velocity anomalies: An example from the Abu monogenetic volcano group, southwest Japan. *Bulletin of Volcanology*, 71:doi:10.1007/s00445–009–0316–4.
- Volentik, A. C. M., Bonadonna, C., Connor, C. B., Connor, L. J., and Rosi, M. (2010). Modeling tephra dispersal in absence of wind: insights from the climactic phase of the 2450 BP Plinian eruption of Pululagua volcano (Ecuador). *Journal of Volcanology and Geothermal Research*, 193:117–136.
- 2009 Díez, M., Connor, C. B., Kruse, S. E., Connor, L. J., and Savov, I. P. (2009). Evidence of small-volume igneous diapirism in the shallow crust of the Colorado Plateau, San Rafael Desert, Utah. *Lithosphere*, 1(6):328–336.
- Wetmore, P. H., Connor, C. B., Kruse, S. E., Callihan, S., Pignotta, G., Stremtan, C., and Burke, A. (2009). Geometry of the Trachyte Mesa intrusion, Henry Mountains, Utah: Implications for the emplacement of small melt volumes into the upper crust. *Geochemistry, Geophysics, Geosystems*, 10:Q08006, doi:10.1029/2009GC002469.
- 2008 Pearson, S. C. P., Connor, C. B., and Sanford, W. (2008). Rapid response of a hydrologic system to volcanic activity: Masaya volcano, Nicaragua. *Geology*, 36(12):951–954.
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- Jaquet, O., Connor, C. B., and Connor, L. J. (2008). Probabilistic modeling for long-term assessment of volcanic hazards. *Nuclear Technology*, 163(1):180–189.
- 2007 Byrne, M. A., Laing, A. G., and Connor, C. B. (2007). Predicting tephra dispersion with a mesoscale atmospheric model and a particle fall model: Application to Cerro Negro volcano. *Journal of Applied Meteorology and Climatology*, 46:121–135.
- MacNeil, R. E., Sanford, W. E., Connor, C. B., Sandberg, S. K., and Díez, M. (2007). Investigation of the groundwater system at Masaya caldera, Nicaragua, using transient electromagnetics and numerical simulation. *Journal of Volcanology and Geothermal Research*, 166:217–232.
- 2005 Díez, M., La Femina, P. C., Connor, C. B., Strauch, W., and Tenorio, V. (2005). Evidence of static stress changes triggering the 1999 eruption of Cerro Negro, Nicaragua, and regional aftershock sequences. *Geophysical Research Letters*, 32(4):L04309 10.1029/2004GL021788.
- Bonadonna, C., Connor, C. B., Houghton, B. F., Connor, L. J., Byrne, M., Laing, A., and Hincks, T. (2005). Probabilistic modeling of tephra-fall dispersal: Hazard assessment of a multiphase rhyolitic eruption at Tarawera, New Zealand. *Journal of Geophysical Research*, 110:B03203, 10.1029/2003JB002896.
- 2004 Apted, M., Berryman, K., Chapman, N., Cloos, M., Connor, C., Kitayama, K., and Tsuchi, H. (2004). Locating a radioactive waste repository in the ring of fire. *Eos*, 85(45):465–480.
- La Femina, P. C., Connor, C. B., Hill, B. E., Saballos, J. A., and Strauch, W. (2004). Exploring the link between tectonism and magmatism: the 1999 seismic swarm and eruption of Cerro Negro, Nicaragua. *Journal of Volcanology and Geothermal Research*, 137:187–199.
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- 1999 Connor, L. J. and Connor, C. B. (1999). Real-time geophysics using Linux. *Linux Journal*, June:25–28.
- 1998 Conway, M. F., Connor, C. B., Hill, B. E., Condit, C. D., Mullaney, K., and Hall, C. M. (1998). Recurrence rates of basaltic volcanism in the SP cluster, San Francisco volcanic field, Arizona. *Geology*, 26:655–658.
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- 1995 Connor, C. B. and Hill, B. E. (1995). Three nonhomogeneous Poisson models for the probability of basaltic volcanism: Application to the Yucca Mountain region. *Journal of Geophysical Research*, 100(B6):10 107–10 125.
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- 1993 Connor, C., Clement, B. M., Song, X., Lane, S. B., and West-Thomas, J. (1993a). Continuous monitoring of high-temperature fumaroles on an active lava dome, Volcán Colima, Mexico: evidence of mass flow variation by atmospheric forcing. *Journal of Geophysical Research*, 98:19 713–19 722.
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- 1992 Connor, C. B., Condit, C. D., Crumpler, L. S., and Aubele, J. C. (1992). Evidence of regional structural controls on vent distribution, Springerville volcanic field, Arizona. *Journal of Geophysical Research*, 97:12 349–12 259.
- 1990 Connor, C. B. and Williams, S. N. (1990). Interpretation of gravity anomalies at Masaya caldera complex, Nicaragua. *Transactions 12th Caribbean Conference*, pages 495–502.
- Connor, C. B. (1990). Cinder cone clustering in the TransMexican volcanic belt: implications for structural and petrologic models. *Journal of Geophysical Research*, 95(B12):19 395–19 405.
- 1989 Connor, C. B. (1989). Soil Hg anomalies at Parícutin volcano, Michoacán-Guanajuato volcanic field, Mexico. *Geofísica Internacional*, 28(5):1029–1042.

- 1988 Connor, C. B., Stoiber, R. E., and Malinconico, L. L. (1988). Variation in sulfur dioxide flux related to Earth tides, Halemaumau crater, Kilauea volcano, Hawaii. *Journal of Geophysical Research*, 93(B12):14 867–14 871.
- 1987 Connor, C. B. (1987b). Structure of the Michoacán-Guanajuato volcanic field, Mexico. *Journal of Volcanology and Geothermal Research*, 33:191–200.
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#### TECHNICAL REPORTS

- 2013 Connor, C., Connor, L., Jaquet, O., Wallace, L., Kiyosugi, K., Chapman, N., Sparks, S., and Goto, J. (2013). Spatial and temporal distribution of future volcanism in the Chugoku region - a partial application of NUMO's ITM and Topaz probabilistic tectonic assessment methodology. Technical Report NUMO-TR-13-03, Nuclear Waste Organization of Japan, Tokyo, Japan.
- 2012 Chapman, N., Apted, M., Aspinall, W., Berryman, K., Cloos, M., Connor, C., Connor, L., T, H., Jaquet, O., and Kiyosugi, K. (2012). TOPAZ project: Long-term tectonic hazard to geological repositories. Technical Report NUMO-TR-12-05, Nuclear Waste Organization of Japan, Tokyo, Japan.
- 2011 IAEA (2011). Volcanic hazards in site evaluation for nuclear power plants. Draft Safety Guide DS405, International Atomic Energy Agency, Vienna, Austria.
- 2009 Connor, C. B., Karakhanian, A., Connor, L., and Sandberg, S. (2009b). Gravity, magnetic, transient electromagnetic (tem), and magnetotelluric (mt) investigations in support of seismo-tectonic and volcanic hazard assessments of the Armenia Nuclear Power Plant (ANPP) Site. Technical report, GeoRisk, Armenia National Academy of Sciences, Yerevan, Armenia.
- Chapman, N., Apted, M., Beavan, J., Berryman, K., Cloos, M., Connor, C., Connor, L., Ellis, S., Jaquet, O., Kiyosugi, K., et al. (2009a). Development of methodologies for the identification of volcanic and tectonic hazards to potential HLW repository sites in Japan – Summary report. Technical Report NUMO-TR-09-03, Nuclear Waste Organization of Japan, Tokyo, Japan.
- Chapman, N., Apted, M., Beavan, J., Berryman, K., Cloos, M., Connor, C., Connor, L., Jaquet, O., Litchfield, N., Mahony, S., et al. (2009b). Development of methodologies for the identification of volcanic and tectonic hazards to potential HLW repository sites in Japan – The Tohoku case study. Technical Report NUMO-TR-08-03, Nuclear Waste Organization of Japan, Tokyo, Japan.
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- 1998 Magsino, S. L., Connor, C., Hill, B., Stamatakos, J., LaFemina, P., Sims, D., and Martin, R. (1998). CNWRA ground magnetic surveys in the Yucca Mountain region (1996–1997). Technical Report CNWRA 98–001, Center for Nuclear Waste Regulatory Analyses, San Antonio, Tx.
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- 1994 Connor, C. and Sanders, C. (1994). Geophysics review topical report: Application of seismic tomographic and magnetic methods to issues in basaltic volcanism. Technical Report CNWRA 94–013, Center for Nuclear Waste Regulatory Analyses, San Antonio, Tx.
- Connor, C. and Hill, B. (1994a). Strategy for the evaluations of scenarios and use of probability models for volcanic disruption scenarios. Technical Report CNWRA 94 – 15, Center for Nuclear Waste Regulatory Analyses, San Antonio, Tx.
- Hill, B. E. and Connor, C. B. (1994). Volcanism research. In *NRC High-Level Radioactive Waste Research at CNWRA July – December, 1993*, number CNWRA 93–02S, pages 8.1–8.26. San Antonio, Tx.
- Connor, C. B., McDuffie, S., and Hill, B. E. (1994). Field volcanism research. In *NRC High-Level Radioactive Waste Research at CNWRA July – December, 1993*, number CNWRA 93–02S, pages 10.1–10.26. San Antonio, Tx.
- Connor, C. B. and Hill, B. E. (1994b). Field volcanism research. In *NRC High-Level Radioactive Waste Research at CNWRA January – June, 1994*, number CNWRA 94–01S, pages 161–188. San Antonio, Tx.
- Hill, B. E. and Connor, C. B. (1994). Volcanism research. In *NRC High-Level Radioactive Waste Research at CNWRA July – December, 1993*, number CNWRA 93–02S, pages 8.1–8.26. San Antonio, Tx.
- 1993 Hill, B., Leslie, B., and Connor, C. (1993). A review and analysis of dating techniques for Neogene and Quaternary volcanic rocks. Technical Report CNWRA 93–018, Center for Nuclear Waste Regulatory Analyses, San Antonio, Tx.
- Connor, C. B. and Hill, B. E. (1993b). Volcanism research. In *NRC High-Level Radioactive Waste Research at CNWRA January – June, 1993*, number CNWRA 93–01S, pages 10.1–10.30. San Antonio, Tx.
- Connor, C. B. (1993). Field volcanism. In *NRC High-Level Radioactive Waste Research at CNWRA January – June, 1993*, number CNWRA 93–01S, pages 12.1–12.18. San Antonio, Tx.

#### THESES

- 1987 Connor, C. B. (1987a). *Cinder Cone Distribution Described Using Cluster Analysis and Two-Dimensional Fourier Analysis in the Central TransMexican Volcanic Belt, Mexico, and in SE Guatemala and NW El Salvador*. PhD thesis, Dartmouth College, Hanover, NH.
- 1984 Connor, C. B. (1984). Structure of the Michoacán volcano field, Mexico. Master’s thesis, Dartmouth College, Hanover, NH.

## Recent Presentations

### MEETING ABSTRACTS

- 2014 Connor, C. (2014). Developing international guidelines on volcanic hazard assessments for nuclear facilities. In *EGU General Assembly Conference Abstracts*, volume 16, page 14960.
- Meliksetian, K., Savov, I., Connor, C., Halama, R., Jrbashyan, R., Navasardyan, G., Ghukasyan, Y., Gevorgyan, H., Manucharyan, D., Ishizuka, O., et al. (2014). Aragats stratovolcano in Armenia: volcano-stratigraphy and petrology. In *EGU General Assembly Conference Abstracts*, volume 16, page 567.
- Richardson, J., Connor, C., Malservisi, R., Bleacher, J., and Connor, L. (2014). LiDAR observations of an Earth magmatic plumbing system as an analog for Venus and Mars distributed volcanism. In *EGU General Assembly Conference Abstracts*, volume 16, page 15162.
- Savov, I., Meliksetian, K., Halama, R., Navasardian, G., Connor, C., D'Antonio, M., Agostini, S., Ishizuka, O., Karapetian, S., and Karakhanian, A. (2014). Collision zone magmatism aids continental crustal growth. In *EGU General Assembly Conference Abstracts*, volume 16, page 2235.
- 2013 Charbonnier, S., Germa, A., Connor, C., Connor, L., Dixon, T., Komorowski, J.-C., Gertisser, R., Lavigne, F., and Preece, K. (2013a). The 2010 pyroclastic density currents of Merapi volcano, central Java, Indonesia. In *EGU General Assembly Conference Abstracts*, volume 15, page 6629.
- Germa, A., Connor, C., Connor, L., and Malservisi, R. (2013a). Development and relationship of monogenetic and polygenetic volcanic fields in time and space. In *EGU General Assembly Conference Abstracts*, volume 15, page 1025.
- Valentine, G., Patra, A. K., Bajo, J. V., Bursik, M. I., Calder, E., Carn, S. A., Charbonnier, S. J., Connor, C. B., Connor, L. J., Courtland, L. M., et al. (2013). Online collaboration and model sharing in volcanology via VHub.org. In *AGU Fall Meeting Abstracts*, volume 1, page 2507.
- Richardson, J. A., Kinman, S., Connor, L., Connor, C., and Wetmore, P. H. (2013). A LiDAR survey of an exposed magma plumbing system in the San Rafael desert, Utah. In *AGU Fall Meeting Abstracts*, volume 1, page 2651.
- Germa, A., Connor, C., Connor, L., and Malservisi, R. (2013b). A new way to estimate volcanic hazards and present multi-hazard maps. In *AGU Fall Meeting Abstracts*, volume 1, page 2811.
- Marshall, A. M., Kruse, S. E., Connor, C., Connor, L., Abdollahzadeh, M., Harburger, A., Richardson, J. A., Courtland, L. M., Farrell, A. K., Kiflu, H. G., et al. (2013). High resolution magnetic and gravity surveys to constrain maar geometry and eruption mechanisms, Rattlesnake Crater, Arizona. In *AGU Fall Meeting Abstracts*, volume 1, page 2831.
- Kruse, S. E., McNiff, C. M., Marshall, A. M., Courtland, L. M., Connor, C., Charbonnier, S. J., Abdollahzadeh, M., Connor, L., Farrell, A. K., Harburger, A., et al. (2013). Scoria cone and tuff ring stratigraphy interpreted from ground penetrating radar, Rattlesnake Crater, Arizona. In *AGU Fall Meeting Abstracts*, volume 1, page 2835.
- Connor, C. and Connor, L. (2013). Numerical modeling of tephra fallout from the 1913 eruption of Volcán de Colima (Mexico): insights into the limits of the geologic record. In *AGU Spring Meeting Abstracts*, volume 1, page 01.
- Kiyosugi, K., Connor, C. B., Sparks, R. S. J., et al. (2013). How many explosive eruptions are missing from the geologic record? analysis of the Quaternary record of large magnitude explosive eruptions in Japan. In *IAVCEI General Assembly*, volume 1, pages 3W4C-P2.

- Scourse, E., Connor, C., Jaquet, O., et al. (2013). TOPAZ: Long-term volcanic risk forecasting for deep geological repositories for radioactive waste. In *IAVCEI General Assembly*, volume 1, pages 4A14D–O7.
- Mannen, K. and Connor, C. B. (2013). Which part of the eruption cloud does volcanic ash fall from? An inversion analysis of the 1986B Izu-Oshima eruption. In *IAVCEI General Assembly*, volume 1, pages A23F–O9.
- 2012 Palma, J. L., Charbonnier, S., Courtland, L., Valentine, G., Connor, C., and Connor, L. (2012). Assessing volcanic hazards with Vhub. In *EGU General Assembly Conference Abstracts*, volume 14, page 6701.
- Charbonnier, S. J., Connor, C. B., Connor, L., Dixon, T., and Saballos, J. A. (2012). Numerical modeling of volcanic flows: towards a short-term hazard assessment tool. In *EGU General Assembly Conference Abstracts*, volume 14, page 587.
- Sparks, R. S. J., Loughlin, S. C., Cottrell, E., Valentine, G., Newhall, C., Jolly, G., Papale, P., Takarada, S., Croweller, S., Nayembil, M., Connor, C., et al. (2012). Global volcano model. In *EGU General Assembly Conference Abstracts*, volume 14, page 13299.
- Wetmore, P., Connor, C., Connor, L. J., Savov, I. P., and Karakhanyan, A. (2012). Unfaulting the Sardarapat Ridge, southwest Armenia. In *AGU Fall Meeting Abstracts*, volume 1, page 2639.
- Richardson, J. A., Miller, D. M., Bleacher, J. E., Connor, C., Gregg, T. K., Connor, L. J., and Glaze, L. S. (2012b). Comparison of monogenetic volcano clusters on Earth, Venus, and Mars. In *AGU Fall Meeting Abstracts*, volume 1, page 04.
- Connor, C., Connor, L. J., and Richardson, J. A. (2012a). Monogenetic volcanic hazards and assessment. In *AGU Fall Meeting Abstracts*, volume 1, page 05.
- Courtland, L. M., Thornton, A., Connor, C., and Bokhove, I. O. (2012c). Discrete element modeling of volcanic pyroclasts: Cone construction and impact sags. In *AGU Fall Meeting Abstracts*, volume 1, page 2843.
- 2011 Ferwerda, B., Wetmore, P. H., Connor, C., Kruse, S. E., Kiyosugi, K., and Kiflu, H. G. (2011). Influence of pre-existing structure on sill geometry in the San Rafael volcanic field, central Utah. In *AGU Fall Meeting Abstracts*, volume 1, page 03.
- Kiyosugi, K., Connor, C., Wetmore, P. H., Ferwerda, B. P., and Germa, A. (2011). Conduits and dike distribution analysis in San Rafael Swell, Utah. In *AGU Fall Meeting Abstracts*, volume 1, page 2629.
- Connor, C. and Connor, L. (2011). A two-stage approach to assessing lava flow inundation hazard. In *AGU Fall Meeting Abstracts*, volume 1, page 06.
- Courtland, L. M., Thornton, A., Weinhart, T., Bokhove, I. O., and Connor, C. (2011b). Tephra flows on cinder cones: A numerical approach. In *AGU Fall Meeting Abstracts*, volume 1, page 2692.
- Saballos, J. A., Kiyosugi, K., Connor, C., and Connor, L. (2011). Spatial density analysis of volcanic vents in the Concepción volcanic complex, Nicaragua. In *AGU Fall Meeting Abstracts*, volume 1, page 2694.
- Charbonnier, S. J., Connor, C., Connor, L., and Dixon, T. (2011b). Application of field observations and remote sensing data to numerical modeling and hazard assessment of volcanic flows. In *AGU Fall Meeting Abstracts*, volume 1, page 2695.
- Connor, C., Connor, L., Savov, I., Meliksetian, K., Halama, R., et al. (2011a). Application of IAEA guidelines on volcanic hazard to a nuclear power plant site in Armenia. In *IUGG Meeting Abstracts*, volume 1, page <http://www.iugg.org/assemblies/2011melbourne/>.

Berryman, K., Wallace, L., Connor, C., Sparks, S., Cloos, M., et al. (2011). Assessment for critical facilities at ultra-long return periods. In *IUGG Meeting Abstracts*, volume 1, page <http://www.iugg.org/assemblies/2011melbourne/>.

Courtland, L., Kruse, S. E., and Connor, C. (2011a). Applying cone building models to an actual cinder cone: Insights from a ground penetrating radar study of Cerro Negro volcano, Nicaragua. In *IUGG Meeting Abstracts*, volume 1, page <http://www.iugg.org/assemblies/2011melbourne/>.

Charbonnier, S., Gertisser, R., Connor, C., and Dixon, T. (2011a). Application of numerical models to block-and-ash flow hazard assessment; Example from Merapi, central Java, Indonesia. In *IUGG Meeting Abstracts*, volume 1, page <http://www.iugg.org/assemblies/2011melbourne/>.

Connor, L., Connor, C. B., Meliksetian, K., and Savov, I. (2011b). A probabilistic approach to modeling lava flow inundation. In *IUGG Meeting Abstracts*, volume 1, page <http://www.iugg.org/assemblies/2011melbourne/>.

Mannen, K., Connor, L., Connor, C., Courtland, L., Volentik, A., et al. (2011). Modifying Tephra2 to better describe a horizontally spreading umbrella cloud. In *IUGG Meeting Abstracts*, volume 1, page <http://www.iugg.org/assemblies/2011melbourne/>.

#### RECENT INVITED TALKS

- 2019 SAMSE conference on uncertainty quantification, North Carolina State University  
CIDER volcano workshop, University of California – Berkeley
- 2018 Department of Earth Science, Penn State University  
International Atomic Energy Agency Mission of Jordan
- 2017 Workshop in honor of Willy Aspinall, University of Bristol
- 2014 NEMOH Inversion Workshop, University College Dublin, Dublin, Ireland  
VHub International Working Group, Popoyan, Colombia
- 2013 Volcano-Tectonic Working Group, NSF PASI Workshop, Leon, Nicaragua  
Volcanic Hazards Working Group, NSF PASI Workshop, Colima, Mexico
- 2012 7th Gulf Seismic Forum, Keynote, Jeddah Saudi Arabia  
Colloquium, Dept. of Geology, University of Iowa  
Colloquium, Dept. of Geology, University of Buffalo  
Colloquium, Dept. of Geology, University of Leeds (UK), October

## Grants and Contracts

- 2019 Geophysical Exploration Of the Dynamics and Evolution of the Solar System (GEODES) 18-SSERVI18 2-0015 NNH18ZDA018C NASA (co-I)
- 2018 CynerG: Integrating Computational Visualization with Exploration of Geohazards, NSF STEM-C program (co-I)
- 2016 Building integrated seismic and volcanic hazard models in active arcs: an example from the Managua Graben, Nicaragua. NASA 16-ESI16-0030 (co-I)
- 2014 Evaluating the Role of Distributed Volcanism in the Development of the Tharsis Region of Mars, Mars Data Analysis Program (MDAP) National Aeronautical and Space Agency (PI)
- Dynamic Statistical Models to Improve Long-term Volcanic Hazard Assessments, National Science Foundation, EAR 1347899 (co-PI)
- 2013 SI2-SSI: Collaborative Research: Building Sustainable Tools and Collaboration for Volcanic and Related Hazards, National Science Foundation, ACI1339768 (PI)
- TOPAZ 2: Volcanic hazard assessment methodology for siting a HLW repository in Japan, International Tectonics Team, Obayashi Corp. (co-PI)
- 2012 TOPAZ 1: Volcanic hazard assessment methodology for siting a HLW repository in Japan, International Tectonics Team, Obayashi Corp. (co-PI)
- Volcanic hazard assessment for a proposed nuclear power plant on Bangka Island, Indonesia, AF Consult (PI)
- 2011 Collection of a High-Resolution Spatial and Ground-Based Dataset From the 2010 Explosive Events at Merapi Volcano, Java, Indonesia, National Science Foundation EAR1114852 (PI)
- Modeling volcanic hazard associated with monogenetic volcanism, Chugoku region, Japan, Obayashi Corp. (PI)
- 2010 CDI-Type II Proposal: VHub: Collaborative Research: Cyberinfrastructure for Volcano Eruption and Hazards Modeling and Simulation, National Science Foundation EAR0940839 (PI)
- Spatial and Temporal Models of Volcanic Hazards in Japan, MCM International (PI)
- 2009 Estimating Eruption Model Input Parameters From Direct Observations of Deeply Eroded Basalt Conduits, San Rafael, UT, National Science Foundation EAR0910696 (PI)
- Integrated geophysical surveys (MT, gravity, magnetics) to assess geologic hazards at the Armenia Nuclear Power Plant site, Minister of Energy, Armenia (PI)
- 2008

- SGER: Extent and Impact of Distal Ash Fallout From the May 2008 Eruption of Chaitén, Chile, National Science Foundation EAR0838115 (PI)
- Volcanic hazard assessment for the the Armenia Nuclear Power Plant site, Minister of Energy, Armenia (PI)
- 2007 Acquisition of High Resolution Ground Penetrating Radar for Volcanological, Hydrogeological, and Very Near Surface Investigations, National Science Foundation EAR0732476 (co-PI)
- 2006 Volcanic Hazards in Japan, MCM International (PI)
- Impacts and hazards associated with the 2005 Panabaj Debris Flow, Guatemala, Oxfam, UK (PI)
- International Atomic Energy Agency Fellows Programme Grant, International Atomic Energy Agency (PI)
- 2005 Volcanic hazard assessment of Concepción volcano, Nicaragua, U. S. Southern Command (PI)
- 2004 Geophysical investigations of the White Sands Missile Range test facility, Sandia National Lab (PI)
- 2002 NATO Collaborative grant with nations of the former Soviet Union: Volcano-tectonic interaction, Armenia, NATO (PI)
- 2001 In the shadow of the volcano: Human health and community resilience following forced evacuation, Globalization Research Center, University of South Florida (PI)
- ITR/AP(Geo): First generation data and model assimilation system to reduce volcanic hazards, National Science Foundation (PI)
- 1999 Monitoring volcano degassing using unmanned aerial vehicles, NASA (PI)
- 1998 Development of an All-Terrain Mountain Bicycle Geomagnetic Mapping System with Kinematic Differential GPS. Advisory Committee on Research, Southwest Research Institute
- 1997 Review of the Armenian Nuclear Power Plant site geology, for volcanic hazard assessment, International Atomic Energy Agency (PI)
- High-Resolution ground magnetic survey of the Ujung Lemahabang nuclear power plant site, Muria Peninsula, Java, for volcanic hazard assessment, International Atomic Energy Agency (PI)
- 1996 Review of volcanic hazard investigations at the Ujung Lemahabang nuclear power plant site, Muria Peninsula, Java, International Atomic Energy Agency Mission (PI)
- 1992 Development of cinder cone alignments: San Francisco Volcanic Field, Arizona, U.S. Nuclear Regulatory Commission, Office of Research NRC-04-92-082 (PI)



- 1992 Structure of high-temperature fumarole fields: An integrated geophysical and geochemical approach, National Science Foundation EAR-9206048 (PI)
- 1991 RUI: Measuring and Modeling Changes in Colima Volcano's Summit Dome, National Science Foundation EAR-9017845 (PI)
- 1990 Monitoring Volcán Colima, Center for Field Research (EarthWatch) (PI)
- Continuous Monitoring of fumarole temperatures by radio telemetry: Colima volcano, Mexico, Florida International University Foundation (PI)
- 1988 Integrated Geophysical Survey in the Michoacán–Guanajuato Volcanic Field, Mexico, Florida International University Faculty Research Fund (PI)
- Image Analysis System for Undergraduate Use in Research, National Science Foundation (Co-PI)
- Remote-sensing Spectro-radiometric Monitoring of an Active Volcano, Nevado Del Ruiz, Colombia, Latin American and Caribbean Center Fund for Research (PI)
- 1985 Soil Hg survey in the Michoacán–Guanajuato volcanic Field, Mexico, Stoiber Field Fund of Dartmouth College
- 1984 Soil Hg survey in the Michoacán–Guanajuato volcanic field, Mexico, Sigma Xi

## Graduate Students Advised – major or co-major professor

- 2013–2019 Lis Gallant, PHD
- 2011–2016 Jacob Richardson, PHD, Now at NASA Goddard Space Flight Center
- 2011–2016 Ophelia George, PHD, now at University of Bristol
- 2011–2014 Jeremy White, PHD, now at GNS, New Zealand
- 2008–2013 Leah Courtland, PHD, now at Indianapolis University
- 2008–2012 Koji Kiyosugi, PHD, now at Kobe University
- 2007–2013 Jose Armando Saballos, PHD, now at Instituto Nicaragüense de Estudios Territoriales
- 2005–2010 Sophie Pearson, PHD, now at GNS, New Zealand
- 2004–2009 Alain Volentik, PHD, now at Exxon–Mobil
- 2003–2008 Mikel Díez, PHD, now at University of Bristol
- 2014–2015 Sammy Tavarez-Kinman, MS, now at Southwest Florida Water Management District
- 2012–2014 Aleeza Harsburger, MS, now with the U. S. Geological Survey
- 2010–2015 Catie Carter MS, Now at Museum of Arizona
- 2007–2009 Amanda Hintz, MS, now consulting in Salt Lake City
- 2006–2008 John Petriello, MS, now at Schlumberger
- 2006–2008 Heather Lehto, MS, now at Angelo State University
- 2005–2007 Mark Byrne, MS
- 2003–2006 Rick MacNeil, MS, now at USA Environmental
- 2003–2004 Jennifer Weller, MS, now at CH2M Hill

2003–2004 Kristin Martin, MS  
1991–1993 John Arfstrom, MS  
1990–1992 Sammantha Lane-Magsino, MS, now at the US National Research Council  
1990–1992 Ali Malek, MS, now president of American Environmental Engineering  
1989–1991 Xiao Dan Song, MS

## Courses Taught

### GRADUATE

Physical Volcanology, Potential Fields: Gravity, Potential Fields: Magnetics, Data Analysis in Geology and Geophysics, Computational Methods in Natural Hazards Assessment, Topics in Volcanology, Modeling Volcanic Processes, Environmental Geophysics, Advanced Geological Hazards.

### UNDERGRADUATE

Physical Volcanology, Geophysics, Natural Hazards, Physical Geology, Field Methods in Geophysics, Field Methods in Volcanology, Geological Mapping.

### SHORT COURSES

*Geophysical inversion* – University of Dublin. *Parallel Computation for the Geosciences* – University of Bristol and USF. *Algorithms* – USF. *Geocomputation* – USF. *Computational Statistics in Volcanology* – León, Nicaragua; Colima, México, and USF. *Natural Hazards* – Université de Genève.