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EDUCATION:

Ph.D., Volcanology, Columbia University, New York, New York, 1985
M.Phil., Geological Sciences, Columbia University, New York, New York, 1984
M.A., Geological Sciences, Columbia University, New York, New York, 1982
B.A., Earth Science, Wesleyan University, Middletown, Connecticut, 1977

SCIENTIFIC RESEARCH:

- Source processes of volcanic tremor and volcanic earthquakes from 160 volcanic areas worldwide, especially Alaska and Central America.
- Volcanic lightning.
- Volcanic hazards assessment and mitigation in Alaska, Central America, and Long Valley, California.
- Volcanic activity and seismicity of Central America during 1973-1993, and 2012-present.
- Volcanic earthquake sequence of Mount St. Helens, March - May 1980.
- Volcanic infrasound.
- Sedimentation in the Pacific Ocean basin and marginal seas.

EMPLOYMENT:

August 2012-present
Professor, Volcano Seismology
University of South Florida, Tampa

November 1991-August 2012
Research Professor, Volcano Seismology
Coordinating Scientist for Alaska Volcano Observatory
Geophysical Institute, University of Alaska, Fairbanks

October 1984-October 1991
Senior Seismologist, Volcanology-Seismology, and Project Manager
California Division of Mines and Geology, Sacramento, California

September 1979- September 1984
Graduate Research Assistant, Geophysics
Lamont-Doherty Geological Observatory of Columbia University, Palisades, New York

AWARDS AND FELLOWSHIPS:

21st Century College of Excellence Fellowship, May-June 2006, Tohoku University, Sendai, Japan

Terrence and Katrina Moore Prize, University of Alaska Fairbanks, Geophysical Institute, 2001

National Performance Review (Hammer Award) to Alaska Volcano Observatory, 1996

Japan Society for the Promotion of Science Fellowship, February-March 1996, Tohoku University, Sendai, Japan

PROFESSIONAL ACTIVITIES:

US National Committee for International Union of Geodesy and Geophysics (1996-1999, 2007-present)

Volcanological Society of Japan (1996-present)

International Society for the Prevention and Mitigation of Natural Hazards (1989-present)

US National Committee for the Pacific Science Association (2000-2007)

International Association of Volcanology and Chemistry of the Earth's Interior (IAVCEI), Secretary-General (1999-2007)

Japan-US Science and Technology Council, Working Group on Volcano Seismology, co-leader for the US (1993-1995)

Sigma Xi (since 1985)

Seismological Society of America (since 1982)

American Geophysical Union (since 1980)

BOOKS:

Associate Editor, Encyclopedia of Volcanoes, 2nd Edition, Elsevier (March 2015)

Associate Editor, Encyclopedia of Volcanoes, Academic Press (October 1999)

SELECTED GENERAL INTEREST PUBLICATIONS:

Aster, R. and M. Simons (Co-Editors), Future Geophysical Facilities Required to Address Grand Challenges in the Earth Sciences. A Community Report to the National Science Foundation, September 2015.

Schaefer, J.R. (ed.), K. Bull, C. Cameron, M. Coombs, A. Diefenbach, T. Lopez, S. McNutt, C. Neal, A. Payne, J. Power, D. Schneider, W. Scott, S. Snedigar, G. Thompson, K. Wallace, C. Waythomas, P. Webley, and C. Werner, The 2009 Eruption of Redoubt Volcano, Alaska. DGGs Report of Investigations 2011-5, 45 p., 2012.

SELECTED PEER-REVIEWED PUBLICATIONS:

Smith, C.M., **S.R. McNutt** and G. Thompson, Ground-Coupled Air Waves at Pavlof Volcano, Alaska and Their Potential for Eruption Monitoring, *Bull. Volcanol.*, DOI: 10.1007/s00445-016-1045-0, 2016.

Dehn, J. and **S.R. McNutt**, Volcanic Materials in Commerce and Industry, Chapter 74 of *Encyclopedia of Volcanoes*, 2nd Edition, Sigurdsson, H., B. Houghton, S.R. McNutt, H. Rymer, and J. Stix (eds.), Elsevier, London, p. 1285-1294, 2015.

Pallister, J. and **S.R. McNutt**, Synthesis of Volcano Monitoring, Chapter 66 of *Encyclopedia of Volcanoes*, 2nd Edition, Sigurdsson, H., B. Houghton, S.R. McNutt, H. Rymer, and J. Stix (eds.), Elsevier, p. 1151-1171, 2015.

McNutt, S.R., G. Thompson, J. Johnson, S. De Angelis, and D. Fee, Seismic and Infrasonic Monitoring, Chapter 63 of *Encyclopedia of Volcanoes*, 2nd Edition, Sigurdsson, H., B. Houghton, S.R. McNutt, H. Rymer, and J. Stix (eds.), Elsevier, p.1071-1099, 2015.

McNutt, S.R. and R.J. Thomas, Volcanic Lightning. Chapter 62 of *Encyclopedia of Volcanoes*, 2nd Edition, Sigurdsson, H., B. Houghton, S.R. McNutt, H. Rymer, and J. Stix (eds.), Elsevier, London, p. 1059-1076, 2015.

McNutt, S.R. and D. Roman, Volcanic Seismicity, Chapter 59 of *Encyclopedia of Volcanoes*, 2nd Edition, Sigurdsson, H., B. Houghton, S.R. McNutt, H. Rymer, and J. Stix (eds.), Elsevier, London, p. 1011-1034, 2015.

Genareau, K., J.B Wardman, T.M Wilson, **S.R. McNutt**, P. Izbekov, Lightning-Induced Volcanic Spherules. *Geology*, 2015, doi:10.1130/G36255.1.

DeRoin, N., **S.R. McNutt**, and G. Thompson, Duration-Amplitude Relationships of Volcanic Tremor and Earthquake Swarms Preceding and During the 2009 Eruption of Redoubt Volcano, Alaska. *J. Volcanol. Geotherm. Res.*, v. 292, p. 56-69, 2015.

Rodgers, M., D.C. Roman, H. Geirsson, P. LaFemina, **S.R. McNutt**, A. Munoz, V. Tenorio, Stable and unstable phases of elevated seismic activity at the persistently restless Telica Volcano, Nicaragua. *J. Volcanol. Geotherm. Res.*, v. 290, p. 63-74, 2015.

Behnke, S.A. and **S.R. McNutt**, Using Lightning Observations as a Volcano Monitoring Tool, *Bull. Volcanol.*, 76: 847, DOI 10.1007/s00445-014-0847-1, 2014.

McNutt, S.R., G. Thompson, M.E. West, D. Fee, S. Stihler, E. Clark, Local seismic and infrasound observations of the 2009 explosive eruptions of Redoubt Volcano, Alaska. *J. Volcanol. Geotherm. Res.*, <http://dx.doi.org/10.1016/j.jvolgeores.2013.03.016>, 2013.