

Publication List: Julie Shemeta

Invited Papers and Citations

Velásquez, A., Victor O. Ramírez, Sergio Chávez-Pérez, Roy Baishali, Julie Shemeta. Introduction to this special issue: Latin America. *The Leading Edge*. Vol. 37, No. 4, pp 252-254. April 2018.

Rutledge, J. and J. Shemeta, Introduction to this special section: Microseismic. *The Leading Edge*. 36:10, 820–820. 2017.

Shemeta, Julie, and J. Boak. 4D Seismology of Induced Earthquakes in Oklahoma: Developments at a Geopolitical Hypocenter. Key Note Presentation, DGS–RMAG 3D Seismic Symposium. March 3, 2016. Colorado Convention Center, Denver, CO.

Shemeta, Julie. Creaks and Groans from the Basement: An Induced Seismicity Update. Heiland Lecture. January 28, 2016. Colorado School of Mines.

J. Shemeta. Creaks and Groans from the Basement: an Induced Seismicity Update. WCEE Hydraulic Fracturing Perspectives Series Webinar. January 13, 2016.

Shemeta, Julie. Induced Seismicity in Oil and Gas Operations: Recent Activity, Monitoring and Regulations. Presented at AAPG / DEG meeting. May 31-June 3, 2015. Denver, CO.

Shemeta, Julie. “Injection–Induced Seismicity: Is Something Lurking in Your Basement?” Presented at SPE Workshop Optimizing Liquids–Rich Development, The Journey Continues. May 20-22 2015. Palos Verdes, CA.

Shemeta, Julie. “Did the Earth Move? Induced Seismicity in Oil and Gas Operations.”

Energy Litigation. American Bar Association Section of Litigation. Vol 14. No. 3. Spring 2015.

Shemeta, Julie. Invited panelist, "Injection Wells and Induced Seismicity." 13th Annual Energy Litigation Conference. Presented by the Institute for Energy Law. Nov. 6, 2014, Houston, Texas.

L. Johnson, Rountree J., and Shemeta J., Newfield's Williston Buried Array Microseismic: Pushing the Envelope and Integrating Data. RMS–AAPG Annual Meeting. July 20–22, 2014. Denver, CO.

Shemeta, J., M. Leidig, and D. Baturan. Passive Seismic Observations at Grand Bayou, Louisiana, USA. Associated with the Failure of the Oxy Geismar #3 Solution Cavern. SMRI Fall Conference 2013. September 30–October 1, p. 143–152. Avignon, France.

Warneke, J., J. Shemeta and K. Hill. Seismic Methods to Address the Cavern Collapse and Sinkhole – Napoleonville Dome. SMRI Spring Conference. May 2013. Lafayette, Louisiana.

Induced Seismicity Potential in Energy Technologies. Committee Member. National Academies Press. 2013.

Shemeta J. E, B. Goodway, M. Willis, and W. Heigl, An introduction to this special section: passive seismic and microseismic—part 2. The Leading Edge p.1428–1435. 2012.

Shemeta, J. E., E. A. Eide, M. W. Hitzman, D. D. Clarke, E. Detournay, J. H. Dieterich, D. K. Dillon, S. J. Green, R.M. Habiger, R. K. McGuire, J. K. Mitchell, J. L. Smith, J. R. Ortego, and

C. R. Gibbs. The Potential for Induced Seismicity in Energy Technologies. The Leading Edge, 31(12), p. 1438–1444.

Shemeta, Julie. Keeping an ear to the ground—Instrumentation and Monitoring for Induced Seismicity. Presented at SPE/SEG Injection Induced Seismicity meeting. September 12–14. Broomfield, CO.

Sarkar, Sudipta, Andrew Jupe, Julie Shemeta, Anca Rosca, and Robert Langan. Uncertainty in microseismic event source locations associated with a fracture stimulation in a tight sand when using one, two, or more borehole geophone arrays. Istanbul International Geophysical Conference and Oil and Gas Exposition. September 17–19, 2012. Istanbul, Turkey.

Shemeta, Julie, Murray W. Hitzman, Elizabeth A. Eide, Donald D. Clarke, Emmanuel Detournay, James H. Dieterich, David K. Dillon, Sidney J. Green, Robert M. Habiger, Robin K. McGuire, James K. Mitchell, John L. (Bill) Smith, Jason R. Ortego and Courtney R. Gibbs. The Potential for Induced Seismicity in Energy Technologies, SPE / SEG Injection Induced Seismicity meeting. September 12–14 2012. Broomfield, CO.

Shemeta, Julie. Invited Guest. Overview of microseismic monitoring of hydraulic fracturing for unconventional oil and gas plays. Presented at the American Geophysical Union Fall Meeting. December 5–9 2011. San Francisco, CA.

Rosca A, Sarkar, S., A. Jupe, J. Shemeta, and B. Langan. Uncertainty In Microseismic Event Locations When Using Two Borehole Geophone Arrays: Fracture Stimulation in a Tight Sand. Presented at the SEG Workshop on Gas Shales. April 1, 2011. Chengdu, China.

Shemeta, Julie. (Invited guest). The History of Microseismic Technology and the Impact it has made in Unconventional Reservoirs. Global Theater presentation. Society of Exploration Geophysicists Annual meeting. 2010. Denver, CO.

Waldron, A., J. Shemeta, E. Gaucher, S. Hunt, D. Cooke, and S. Chipperfield. Not a shot in the dark: Low-cost demonstration of microseismic feasibility in a high-risk environment. SEG Technical Program Expanded Abstracts, p. 2120–2124. 2010.

Shemeta, J., (invited panelist). Induced fracture mapping with microseismic: background and case histories. Denver Well Log Society Spring workshop: Formation Evaluation Challenges in the Rockies. March 10, 2010.

Shemeta, J. and P. Anderson. It's a matter of size: Magnitude and moment estimates for microseismic data. The Leading Edge #29. p. 296–302. 2010.

Reiter, D., W. Rodi and J. Shemeta. Assessing the uncertainties of borehole microseismic event locations in hydraulic fracturing applications. CSEG Microseismic Workshop: Breaking Preconceptions. October 13–15, 2009.

Willis, M.E., Willis, K.M., Burns, D.R., J. Shemeta, and N.J. House. Fracture quality image from 4D VSP and microseismic data at Jonah Field, WY. SEG Houston 2009 International Exposition and Annual Meeting. SEG expanded abstracts 28 (2009), p. 4110–4114. Houston, Texas.

Weijers, Y. Kama, J. Shemeta, and S. Cumella. Bigger is better—Hydraulic fracturing in the Mesaverde formation in the Piceance Basin. AAPG Annual Convention and Exhibition. June 2009. Denver, CO.

J. E. Shemeta, S. C. Maxwell, , N. R. Warpinski, C. Waltman, Z. Phillips, T. Riebel, J. Kinser, G. Hinds, and T. Green. Stacking Seismograms to Improve Microseismic Images. SPE 108103-PA. SPE Production & Operations, p. 156-164. February 2009.

S.C. Maxwell, J. Du and J. Shemeta. Passive seismic and surface monitoring of geomechanical deformation associated with steam injection. The Leading Edge v.27, p. 1176. 2008.

Willis, M.E., Burns, D.E, Willis, K.M., House, N.J. and J. Shemeta. Hydraulic fracture quality from time lapse VSP and microseismic data. SEG Expanded Abstracts #27, p. 1565. 2008.

S.C. Maxwell, J. Du and J. Shemeta. Monitoring Steam Injection Deformation Using Microseismicity and Tiltmeters. Presented at San Francisco US Rock Mechanics Symposium. ARMA 08-335. June 29-July 2, 2008.

S.C. Maxwell, J. Shemeta, E. Campbell and D. Quirk. Microseismic Deformation Rate Monitoring. SPE Annual Technical Conference and Exhibition. SPE 116596. September 21-24 2008. Denver, Colorado.

M.E. Willis, D.R. Burns, J. Shemeta, and N.J. House. Fracture Quality Images From 4D VSP and Microseismic Data at Jonah Field, WY. SEG Technical Program Expanded Abstracts pp. 1565- 1569. 2008.

S.C. Maxwell, J. Du, and J. Shemeta. Monitoring Steam Injection Deformation Using Microseismicity and Tiltmeters. 42nd US Rock Mechanics Symposium and 2nd U.S.—Canada Rock Mechanics Symposium. ARMA 08-335. June 29-July 2, 2008. San Francisco, California.

S.C. Maxwell, J. Du, J. Shemeta, U. Zimmer, N. Boroumand, and L. Griffin. Passive seismic and surface deformation monitoring of steam injection. *First Break* vol. 26, p. 53–59. May 2008.

M. E. Willis, D.R. Burns, K.M. Willis, N. J. House, and J. Shemeta. Hydraulic fracture quality using microseismic and time lapse 3–D VSP data to locate scattered seismic energy: Jonah Field, Wyoming. Expanded Abs. 14th Ann. 3D Seismic Symposium. Rocky Mtn. Assoc. of Geol. March 17, 2008. Denver, CO.

J. Shemeta, S. Maxwell, N. Warpinski, G. Hinds, J. Huck, J. Kinser, S. Quimby, and C. Waltman. Digital Stacking of Passive Seismograms. *SEG Expanded Abstracts* 26, 1302–1306. 2007.

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J. E. Shemeta, S. Maxwell, N. R. Warpinski, S. Quimby, T. Riebel, Z. Phillips, J. R. Kinser, G. Hinds and C.K. Waltman. Stacking Seismograms to Improve Microseismic Images. *SPE Rocky Mountain Oil & Gas Technology Symposium*. SPE 108103. April 16-18 2007. Denver, Colorado.

J.E. Shemeta, T.L. Davis, M. Roth, and R.B. Riley. Seeing Beyond the Frac: Integration of hydraulic fracture mapping with multi-component 3D seismic data. *SPE Rocky Mountain Oil & Gas Technology Symposium*. SPE 108160. April 16–18, 2007. Denver, Colorado.

T. Davis, M. Roth and J. Shemeta. Renaissance at Rulison Field – Visualization of 9C/4–D Seismic with Borehole Microseismic Data. Expanded Abstract. 13th Annual 3D Seismic Symposium. Rocky Mountain Association of Geology. Denver, CO. 2007.

S. Maxwell, J. Du, J. Shemeta, U. Zimmer, N. Boroumand, and L. Griffin. Passive Seismic and Surface Deformation Monitoring of Steam Injection. EAGE Dubai meeting on Passive Seismic. 2006.

S.C. Maxwell, J. Shemeta and N. House. Integrated Anisotropic Velocity Modeling Using Perforation Shots, Passive Seismic and VSP Data. 3 SEG Expanded Abstracts Annual Meeting, p. 301. 2006.

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N. House and J. Shemeta, Understanding hydraulic fractures in tight–gas sands through the integration of borehole microseismic data, three–dimensional surface seismic data, and three–dimensional vertical seismic profile data: A Jonah field study. S. P. Cumella, K. W. Shanley, and W. K. Camp, eds., Understanding, exploring and developing tight–gas sands. AAPG Hedberg Series, no. 3, p. 77–86. 2005. Vail, Colorado.

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J.E. Shemeta, W.B. Minner, R.G. Hickman, P.A. Johnston, C.A. Wright and N. Wachi. Geophysical monitoring during a hydraulic fracture in a fractured reservoir: Tiltmeter and passive seismic results. Proceedings of the Eurock '94. Pp. 929–944. 1994. Balkema, Rotterdam.

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