

Selected Highlight 2015 Publications and Abstracts of CSU Geosciences

CSU Faculty, students, and staff indicated in **bold**. Student authors are indicated with asterisks.

Akande, S.O., Lewan, M.D., **Egenhoff, S.O.**, Adekeye, O., J. Ojo, O.J., Peterhansel, A., Source rock potential of lignite and interbedded coaly shale of the Ogwashi–Asaba Formation, Anambra basin as determined by sequential hydrous pyrolysis. *International Journal of Coal Geology*, v. 150-151, 224-237, 2015.

Al Faitouri, M.* and Sanford, W. E., Stable and radio-isotope analysis to determine recharge timing and paleoclimate of sandstone aquifers in central and southeast Libya. *Hydrogeology Journal*, 23:707-717, 2015.

Anthony, R.*, **Aster, R.**, Wiens, D., Nyblade, A., Anandakrishnan, S., Huerta, A., Winberry, J.P., Wilson, T., Rowe, C., The seismic noise environment of Antarctica, *Seism. Res. Lett.*, 86, 10.1785/0220140109, January/February, 2015.

Berry, M., Lowry A., **Schutt D.**, Kanda R., Buehler J., Cold and wet at the roots of U.S. Cordilleran high elevation, AGU Fall Meeting (Abstract), 2015.

Bingen, B., Corfu, F., **Stein, H.J.**, Whitehouse, M.J. (2015) U-Pb geochronology of the syn-orogenic Knaben molybdenum deposits, Sveconorwegian orogeny, Norway: *Geological Magazine*, v. 152, no. 3 p. 537-556, 10.1017/S001675681400048X, 2015. www.airieprogram.org

Bromirski, P., Diez, A., Gerstoft, P., Stephen, R., Bolmer, T., Wiens, D., **Aster, R.**, Nyblade, A., Ross Ice Shelf Vibrations, *Geop. Res. Lett.*, 42, 10.1002/2015GL065284, 2015.

Caskey, S.*, **Blaschak, T.***, **Wohl, E.**, Schnackenberg, L., Merritt, D., Dwire, K., Downstream effects of stream flow diversion on channel characteristics and riparian vegetation in the Colorado Rocky Mountains, USA, *Earth Surface Processes and Landforms*, 40, 586-598, 2015.

Catchpole, H., Kouzmanov, K., Bendezú, A., Ovtcharova, M., Spikings, R., **Stein, H.**, Fontboté L., Timing of porphyry (Cu-Mo) and base metal mineralisation (Zn-Pb-Ag-Cu) in a magmatic-hydrothermal system – Morococha district, Peru: *Mineralium Deposita*, v. 50, p. 895-922, 10.1007/s00126-014-0564-x, 2015. www.airieprogram.org

Chentnik, B. M., Johnson, C., Mulhern, J., **Stright, L.**, 2015, Valleys, estuaries, and lagoons: paleoenvironments and regressive-transgressive architecture of the upper Cretaceous Straight Cliffs Formation, *Journal of Sedimentary Research*, 85 (10), 1166-1196.

Colella, H., **Schutt, D.**, Sumy, D., and Frassetto, A., “Helping Early-Career Research Succeed,” EOS, 2015.

- Cooper, D.J.**, E.C. Wolf, **M.J. Ronayne**, J.W. Roche, Effects of groundwater pumping on the sustainability of a mountain wetland complex, Yosemite National Park, California, *Journal of Hydrology: Regional Studies*, 3, 87-105, 2015.
- Crockett, A.C.***, **M.J. Ronayne**, **D.J. Cooper**, Relationships between vegetation type, peat hydraulic conductivity, and water table dynamics in mountain fens, *Ecohydrology*, 2015.
- Egenhoff, S.O.**, Fishman, N., Ahlberg, P., Maletz, J., Jackson, A., Kolte, K., Lowers, H., Mackie, J., Newby, W. & Petrowsky, M., Sedimentology of SPICE: A Cambrian "ocean anoxic event" Alum Shale Formation, southern Sweden. In: *Paying attention to Mudstones; priceless!*, Larsen, D., Egenhoff, S.O., Fishman, N.S. (eds.), Geological Society of America Special Paper 515, 87-102, 2015.
- Fishman, N.S., **Egenhoff, S.O.**, Boehlke, A.R., Lowers, H., Petrology and diagenetic history of the upper shale member of the Late-Devonian-Mississippian Bakken Formation, Williston Basin. In: *Paying attention to Mudstones; priceless!* Larsen, D., Egenhoff, S.O., Fishman, N.S. (eds.), *Geological Society of America Special Paper 515*, 125-151, 2015.
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- Georgiev, S.V.**, **Stein, H.J.**, **Hannah, J.L.**, Henderson, C.M., Algeo, T., Enhanced recycling of organic matter and Os-isotopic evidence for multiple magmatic or meteoritic inputs to the Late Permian Panthalassic Ocean, Opal Creek, Canada: *Geochimica et Cosmochimica Acta*, v. 150, p. 192-210, 2015. www.airieprogram.org
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- Karpilo, R.D. Jr.**, S. C. Venator, Documenting over a century of natural resource change with repeat photography in Klondike Gold Rush National Historical Park, Alaska. *Natural Resource Report NPS/KLGO/NRR—2015/1017*. National Park Service, Fort Collins, Colorado, <https://irmadev.nps.gov/DataStore/Reference/Profile/2224006>, 2015.
- King, C.***, **Sanford, W.E.** and Li, Y.V., Fluorescent Nanosphere transport: Groundwater tracing and

implications for the migration of environmental nanoparticles. Presentation at National Groundwater Association Groundwater Summit, San Antonio (Abstract), 2015.

King, C.*, Sanford, W.E. and Li, Y.V., Dual tracer laboratory experiments using carbon nanoparticles and bromide in heterogeneous and reactive porous media. Presentation at Geological Society of America Annual Meeting (Abstract), 2015.

Kramer, N.*, Wohl, E., Driftcretions: the legacy impacts of driftwood on shoreline morphology, *Geophysical Research Letters*, 42, 5855-5864, 2015.

Leshner, C., Vestergaard C., Brown E., and **Schutt, D.**, “Linking petrology and seismology of the southwest Greenland lithosphere,” AGU Fall Meeting (Abstract), 2015.

Lewis, A.R.*, M.J. Ronayne, T.C. Sale, Estimating aquifer properties using derivative analysis of water level time series from active well fields, *Groundwater*, 2015.

McGrath, D., O’Neel, S., Sass, L., Gusmeroli, A., Arendt, A., Wolken, G., Kienholz, C., McNeil, C., End-of-winter snow depth variability on glaciers in Alaska, *Journal of Geophysical Research-Earth Surface*, 120, 10.1002/2015JF003539, 2015.

McNamara, D., Hayes, G., Benz, H., Williams, R., **McMahon, N.*, Aster, R.C.**, Holland, A., Sickbert, T., Herrmann, R., Briggs, R., Smoczyk, G., Bergman, E., Earle, P., Reactivated faulting near Cushing Oklahoma: increased potential for a triggered earthquake in an area of United States strategic infrastructure, *Geop. Res. Lett.*, 10.1002/2015GL064669, 2015.

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Sparks, B., Harry, D. L., Wohl, E., Geophysical constraints on the evolution of Sand Creek at the Sand Creek Massacre Historic Site, Colorado, USA. Geological Society of America Annual Meeting, Nov. 1-4, Baltimore, MD (Abstract), 2015.

Stein, H. and Hannah, J., Rhenium-Osmium geochronology – sulfides, shales, oils, and mantle, in Rink, J. and Thompson, J. (eds), Earth Sciences Series, Encyclopedia of Scientific Dating Methods, Springer, 10.1007/978-94-007-6326-5_36-1, 2015. www.airieprogram.org

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- Swarcz, T. S., Johnson, C.L., **Stright, L. E., McFarlane, C. M., 2015, Interactions between axial and transverse drainage systems in the Late Cretaceous Cordilleran foreland basin: evidence from detrital zircons in the Straight Cliffs Formation, Southern Utah, USA, *GSA Bulletin*, 127 (3-4), 372-392.**
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- Tripathy, G.R., Hannah, J.L., Stein, H.J., Geboy, N.J., Ruppert, L.F., Radiometric dating of marine-influenced coal using Re-Os geochronology: *Earth and Planetary Science Letters*, v, 432, p. 13-23, 2015. www.airieprogram.org**
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- Wohl, E., Lane, S., Wilcox, A., The science and practice of river restoration, *Water Resources Research*, 51, 5974-5997, 2015.**
- Yang, G., Zimmerman, A., Stein, H. and Hannah, J., Pretreatment of nitric acid with hydrogen peroxide reduces total procedural Os blank to femtogram levels: *Analytical Chemistry*, v. 87, p. 7017-7021, 2015. www.airieprogram.org**