

Nicholas Hinz

Position: Vice President, Geoscience

Technical Expertise: *Geologic Mapping and Structural Geology*
Assessing Permeability Pathways
Building and Evaluating Conceptual Models
Geothermal Resource Evaluation
Well Targeting
Due Diligence

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EXPERIENCE SUMMARY

Experienced Senior Geologist with >20 years of field-based experience with geothermal and structural framework geology projects located throughout North America, East Africa, Turkey, Indonesia, Central Asia and the Caribbean. The geothermal projects have included broad regional assessments, evaluations of individual resources, and active guidance of drilling programs, for both volcano-hosted and fault-hosted, deep circulation systems. He specializes in detailed geologic mapping and stress calculations for the purpose of characterizing fracture permeability, refining conceptual models, and drill targeting. He also frequently leads field trips for professional organizations and assists with geothermal training workshops for students and professionals.

EDUCATION

M.S. Geology University of Nevada, Reno, 2004

B.A. Geology Whitman College, 1998

PROFESSIONAL SOCIETIES

American Geophysical Union

Geothermal Resources Council

Geological Society of America

International Geothermal Association

Geological Society of Nevada

Nevada Petroleum and Geothermal Society

The Geological Society of London

Int'l Assoc. of Volcanology and Chemistry of the Earth's Interior

SELECTED PROJECT EXPERIENCE

City of Akutan

- Comprehensive geologic mapping, structural analyses, conceptual modeling, and drill targeting at **Hot Springs Bay Valley, Mt Akutan, Alaska.**

Dena Nezziddi Development Corp.

- Comprehensive geologic mapping, structural analyses, drill targeting at **Ross River, Canada.**

Geothermal Development Company, Kenya

- Comprehensive geologic mapping, structural analyses, conceptual modeling, and drill targeting at **Mt Suswa.**

Geothermal Resources Department, Uganda

- Structural mapping, conceptual modeling, and drill targeting at **Kibiro, Panyimur, Buranga, and Katwe.**

KS Orka

- Lidar analysis and structural field mapping, conceptual modeling, drill targeting for production and injection wells, and wellsite geology at **Sorik Marapi, Indonesia.**
- Lidar analysis and structural field mapping, conceptual modeling, and drill targeting for production and injection wells at **Sokoria, Indonesia.**

Open Mountain Energy

- Lidar analysis, structural mapping, conceptual modeling, and drill targeting at **Star Peak, Nevada.**

Sierra Geothermal Power Corp.

- Comprehensive geologic mapping, structural analyses, and drill targeting at **Reese River, Nevada.**

Sis Enerji

- Structural mapping, structural analyses, conceptual modeling, and drill targeting at **Sogukyurt, Turkey.**

Tanzanian Geothermal Development Company

- Comprehensive geologic mapping, conceptual modeling, and drill targeting at **Songwe.**

U.S. Department of Energy

- **Global assessment of 74 productive volcanic centers** in subduction arc including structural geology analysis, and development of metrics for exploration and resource evaluation.
- Regional geothermal assessment of the **Cascade and Aleutian arcs, California, Oregon, Washington, and Alaska.**
- Re-logging of cuttings and core from 30 wells, co-development of a detailed 3D geologic model with well data, map data, and geophysics at **Bradys, Nevada.**
- Comprehensive geologic mapping of faults and surface manifestations, structural analyses at **Salt Wells, Nevada.**
- Comprehensive geologic mapping of faults and surface manifestations, structural analyses at **Lee-Allen, Nevada.**

U.S. Navy Geothermal Program Office

- Comprehensive geologic mapping, structural analyses, conceptual modeling, drill targeting at **Hawthorne, Nevada.**

PROFESSIONAL ACTIVITIES

- 2019 **Geothermal Resource Decision Workshops: USGS**— Co-taught a 2 day geothermal conceptual modeling workshop for the USGS geothermal program (October 9-10).
- 2018 **Technical Advisory Team (TAT), African Center of Geothermal Excellence**—Ongoing curriculum development.
- 2018 **ARGeo-C7, Geothermal Resource Decision Workshops 1 and 2: Volcanic and Deep Circulation Conceptual Models, Rwanda**—Co-taught a 2 day geothermal conceptual modeling workshop at the biennial African geothermal conference (October 29-30).
- 2018 **Geothermal Resources Council Fieldtrip**—Co-led a 1 day geothermal field trip to Salt Wells and Gabbs Valley that focused on methods and results of Phases 1, 2, and 3 of the Nevada Play Fairway Project (October 19).

- 2018 **IIGCE 2018 Workshop, Indonesia**—Co-taught a 2 day geothermal conceptual modeling workshop at the annual Indonesian geothermal conference (September 3-4).
- 2018 **National Geothermal Academy, University of Nevada Reno, Conceptual Modelling**—Co-taught a one-week conceptual modelling course on volcano-hosted and deep circulation geothermal systems (June 18-22).
- 2017 **Geothermal Resources Council Workshop, Conceptual Modelling II**—Designing materials for a new series of exercises on conceptual modeling of a fault hosted geothermal systems and helped lead the workshop (September 29-30).
- 2017 **IRENA-GGA Meeting**—Invited to speak on a panel discussion for a 2 day conference, *Working Together to Promote Geothermal Energy Towards a Sustainable Energy Future, High Level Conference of the Global Geothermal Alliance*, Florence, Italy (September 11-12).
- 2017 **Geothermal Resources Council**—Served on GRC 2017 Annual Meeting Technical Program Review Committee tasked with reviewing submitted papers (June 1-5).
- 2017 **Yukon Geological Survey Geothermal Workshop**, Invited speaker for a geothermal exploration workshop hosted by the YGS with focus on geothermal in Canada (June 1).
- 2017 **Geological Society of America**—Co-convenor of a session at the Geological Society of America Cordilleran Section meeting in Honolulu, HI, May 23-25 (T14. Advances in Geothermal Resource Investigation).
- 2016 **Geothermal Resources Council Workshop, Conceptual Modelling I**—Designed materials and led an exercise on conceptual modeling of a fault hosted geothermal system (October 21-22).
- 2016 **United Nations Environmental Program, Technical Workshop, Rwanda**—Invited presenter for a 3 day workshop, *Geologic Development and Geophysics of the Western Branch of the Greater EARS Region*, Kigali, Rwanda (March 9-11). Presented on two topics, including comparing and contrasting geothermal resources in the Basin and Range with those in the western branch of the EARS, and secondly on selected exploration methods for amagmatic resources.
- 2015 **Earth Science Week Field Trip**—Co-leader of two, one-day field trips focused on the geology of the Mount Rose area of the Carson Range and north Lake Tahoe (October 17-18).
- 2015 **Geothermal Resources Council Field Trip**—Co-leader of a post-meeting field trip on the Structural Controls of McGinness and Salt Wells geothermal areas (September 23-25).
- 2015 **National Park Service, Tule Springs Fossil Beds National Monument**—Participated in a two-day geological resources inventory (GRI) scoping session for this new Monument (July 14-15).
- 2015 **Department of Energy Peer Review**—Presented the strategy for drill target selection and well design for lower Hot Springs Bay Valley, Akutan, Alaska. DOE-funded drilling will commence in 2016 (May 12).
- 2015 **Geothermal Resources Council**—Served on GRC 2015 Annual Meeting Technical Program Review Committee tasked with reviewing submitted papers (May 5).
- 2014 **USGS STATEMAP Review Panel Field Trip**—Co-leader of a one-day field trip for the STATEMAP review panel (December).
- 2014 **National Geothermal Academy**—Gave 3 presentations during the 2 week National Geothermal Academy held in Reno by UNR in conjunction with GRC (July).
- 2014 **Geothermal Resources Council**—Served on GRC 2014 Annual Meeting Technical Program Review Committee tasked with reviewing submitted papers and organizing technical sessions (May 13-14).
- 2014 **Nevada Petroleum and Geothermal Society**—Gave a talk (invited) at a monthly dinner meeting for NPGS (Jan. 8)
- 2013 **Geothermal Resources Council Workshop**—Presented a segment of a 2 day pre-meeting workshop, *21st Century Geothermal Exploration*, at the 2013 Geothermal Resources Council Annual Meeting (September 29-30).

- 2013 **Great Basin Center for Geothermal Energy**—Participated in a field trip to Iceland to learn about Iceland geothermal systems (August).
- 2013 **Geothermal Resources Council**—Served on GRC 2013 Annual Meeting Technical Program Review Committee tasked with reviewing submitted papers and organizing technical sessions (May 13-14).
- 2012 **Geothermal Resources Council Field Trips**—Co-leader of pre- and post-meeting field trips on the Structural Controls of Geothermal Systems in the Western Great Basin, visiting several geothermal fields in western Nevada (September 29-30 and October 4-5).
- 2012 **Geothermal Resources Council**—Served on GRC 2012 Annual Meeting Technical Program Review Committee tasked with reviewing submitted papers and organizing technical sessions (May 16-17).
- 2011 **Geothermal Resources Council**—Served on GRC 2011 Annual Meeting Technical Program Review Committee tasked with reviewing submitted papers and organizing technical sessions (May 15-16).
- 2010 **Friends of the Pleistocene Field Trip**—Lead a stop on the Pacific Cell Friends of the Pleistocene Field Trip on the structural controls of geothermal systems near Hawthorne, NV (September 18).
- 2009 **Geothermal Resources Council Field Trip**—Structural Controls of Geothermal Systems in the Western Great Basin, Co-leader of a 2-day field trip visiting several geothermal fields in western Nevada (October 3-4).
- 2007 **Nevada Petroleum Society Field Trip**—Lead at stop on the NPS annual field trip—*Geology, Geothermal Resources and Petroleum Exploration of Neogene Basins in the Reno, Nevada Area*.
- 2005 **Geological Society of America Field Trip**—Co-leader of a pre-meeting field trip for Annual Meeting in Salt Lake City entitled *Transect Across the Northern Walker Lane, Northwest Nevada and Northeast California: An Incipient Transform Fault Along the Pacific – North American Plate Boundary* (October 13-15).
- 2003 **Student Association for International Water Issues, Haiti**—Drinking water resource investigation in Haiti (January).
- 2000 **Damdin Da Fund, Quaternary Geology, Mongolia**—This project brought together 7 Mongolian research faculty and graduate students and 7 research faculty and graduate students from the USA to build momentum and interest for the Mongolians in the earth sciences (July-August).

PUBLICATIONS

Peer-Reviewed

- Craig, J.W., Faulds, J.E., Coolbaugh, M.F., **Hinz, N.H.**, Earney, T.E., Schermerhorn, W.D., Glen, J.M., Peacock, J., Siler, D.L., and Deoreo, S.B., *in final prep*, Discovery and analysis of a blind geothermal system in southeastern Gabbs Valley, western NV.
- Ayling, B., and **Hinz, N.H.**, *in revision*, Developing a Conceptual Model of One of Three Geothermal Prospects at Hawthorne, Nevada, USA: Geothermics.
- Lautze, N., Thomas, D., Ito, G., Frazer, N., Martel, S., **Hinz, N.**, and Whittier, R., 2020, Review of the Hawai'i Play Fairway Phase 2 Activities: Geothermics.
- Zusa, A.V., Cao, W., **Hinz, N.H.**, DesOrmeau, J.W., Odlum, M., and Stockli, D.F., 2019, Footwall rotation in a regional detachment fault system: Evidence for horizontal-axis rotational flow in the Miocene Searchlight pluton, NV: Tectonics.
- Siler, D.L., **Hinz, N.H.**, Faulds, J.E., Mayhew, B., Dering, G.M., and Edwards, J., 2019, Three-dimensional geologic and geothermal potential modeling of Great Basin geothermal systems: Geothermal Energy, v. 7, no. 2, 32 pp.

- Siler, D.L., **Hinz, N.H.**, and Faulds, J.E., 2018, Stress concentrations at structural discontinuities and the controls of permeability and fluid flow in geothermal fields: Geological Society of America Bulletin, 16 p., <https://doi.org/10.1130/B31729.1>
- Lautze, N., Thomas, D., Waller, D., **Hinz, N.**, Frazer, N., and Apuzen-Ito, G., 2017, Play Fairway Analysis of Geothermal Resources across the State of Hawaii: 3. Use of Development Viability as one criteria to prioritize future exploration activities: Geothermics, <https://doi.org/10.1016/j.geothermics.2017.07.005>.
- Lautze, N., Thomas, D., **Hinz, N.**, Apuzen-Ito, G., Frazer, N., and Waller, D., 2017, Play fairway analysis of geothermal resources across the State of Hawaii: 1. Description and justification of geological, geophysical, and geochemical datasets: Geothermics, <https://doi.org/10.1016/j.geothermics.2017.02.001>.
- Ito, G., Frazier, N., Lautze, N., Thomas, D., **Hinz, H.**, Waller, D., Whittier, R., and Wallen, E., 2016, Play fairway analysis of geothermal resources across the State of Hawaii: 2. Resource Probability Mapping: Geothermics, <http://dx.doi.org/10.1016/j.geothermics.2016.11.004>.
- Witter, J.B., Siler, D.L., Faulds, J.E., and **Hinz, N.H.**, 2016, 3D Geophysical inversion modelling of gravity data to test the 3D geological model of the Bradys geothermal area, Nevada, USA: Geothermal Energy, v. 4, no. 14, 21 p.
- Stelling, P., Shevenell, L., **Hinz, N.**, Coolbaugh, M., Melosh, G., and Cumming, W., 2016, Geothermal systems in volcanic arcs I: Volcanic characteristics and surface manifestations as indicators of geothermal potential and favorability worldwide: Journal of Volcanology and Geothermal Research, v. 324, p. 57-72.
- Faulds, J.E., Schreiber, B.C., Langenheim, V.E., **Hinz, N.H.**, Shaw, T., Heizler, M.T., Perkins, M.E., El Tabakh, M., and Kunk, M.J., 2016, Paleogeographic implications of late Miocene lacustrine and nonmarine evaporate deposits in the Lake Mead region: Immediate precursors to the Colorado River: Geosphere, v. 12, no. 3, p. 1-47.
- Hinz, N.H.**, Coolbaugh, M.F., and Faulds, J.E., 2015, Geothermal resource potential assessment – White Pine County, Nevada: Nevada Bureau of Mines and Geology Report 15, 21 p.
- Stelling, P., **Hinz, N.H.**, Kolker, A., and Ohren, M. 2015, Exploration of the Hot Springs Bay Valley (HSBV) Geothermal Resource Area, Akutan, Alaska: Geothermics, v. 57, p. 127-144.
- Henry, C.D., **Hinz, N.H.**, Faulds, J.E., Colgan, J.P., John, J.P., Brooks, E.R., Cassel, E.J., Garside, L.J., Davis, D.E., and Castor, S.B., 2012, Eocene-early Miocene paleotopography of the Sierra Nevada – Great Basin – Nevadaplano Based on Widespread Ash-flow Tuffs and Paleovalleys: Geosphere, v. 8, no. 1, p. 1-27.
- Hinz, N.H.**, Faulds, J.E., and Henry, C.D., 2009, Tertiary volcanic stratigraphy and paleotopography of the Diamond and Fort Sage Mountains – Constraining slip along the Honey Lake Fault Zone in the northern Walker Lane, northeastern California and western Nevada, *In* Oldow, J.S., and Cashman, P.H., eds., Late Cenozoic structure and evolution of the Great Basin – Sierra Nevada Transition: Geological Society of America Special Paper 447, p. 101-131.
- Faulds, J.E., Henry, C.D., and **Hinz, N.H.**, 2005, Kinematics of the northern Walker Lane: An incipient transform fault along the Pacific – North American plate boundary: Geology, v. 33, no. 6, p. 505-508.

Conference Proceedings Papers

- Hinz, N.H.**, Cumming, C., Matson, G., Haizlip, J., Sussman, D., Fercho, S., Fishbin, A., Sanjaya, D., Sagala, B., Tang, Y., 2020, Conceptual Model Update of the Sokoria Geothermal Field, Flores, Indonesia: World Geothermal Congress.
- Hinz, N.H.**, Vivian-Neal, P., Haizlip, J., Matson, G., Cumming, W., Harrison, P., and Campbell, S., 2020, Zambia: Conceptual Model and Drilling Update of the Deep Circulation Bweengwa River Geothermal Prospect: World Geothermal Congress.

- Haizlip, J.R., Cumming, W., **Hinz, N.**, Melosh, G., Alexander, K., Harvey, M., Magnusson, R., and Reynisdóttir, S.B., 2020, Conceptual model of Suswa geothermal prospect, Kenya: World Geothermal Congress.
- Faulds, J.E., **Hinz, N.H.**, Coolbaugh, M.F., Craig, J.W., Glen, J.M., Ayling, B., Sadowski, A.J., Siler, D.L., and Deoreo, S., 2020, The Nevada geothermal play fairway project: exploring for blind geothermal systems through integrated geological, geochemical, and geophysical analyses: World Geothermal Congress.
- Cumming, W., **Hinz, N.**, Wallis, I., Scott, S., Gunderson, R., Sewell, S., Easley, E., Ayling, B., Ussher, G., and Stelling, P., 2020, Geothermal resource decision workshops: hands-on training for geothermal resource professionals using a conceptual model approach: World Geothermal Congress.
- Ayling, B. **Hinz, N.**, Blake, K., Sabin, A., Lowry, T., and Tiedeman, A., 2020, Developing a conceptual model of one of three geothermal prospects at Hawthorne, Nevada, USA: World Geothermal Congress.
- Lowry, T.S., Sabin, A. Ayling, B., **Hinz, N.**, Arguello, R., Blake, K., and Tiedeman, A., 2020, Deep direct-use geothermal: a probabilistic systems analysis approach for techno-economic analysis: World Geothermal Congress.
- Lautze, N., Thomas, D., Ito, G., **Hinz, N.**, Frazer, N., and Martel, S., 2020, Overview of the Hawaii play fairway project, phases 1-3: World Geothermal Congress.
- Isabirye, E.M., Cumming, W., Askew, T., **Hinz, N.**, Sussman, D., Mawejje, P., and Lugaizi, I., 2020, The Katwe geothermal prospect in western Uganda: a deep-circulation fault zone-hosted geothermal system?": World Geothermal Congress.
- Harvey, M., Bahati, G., Isabirye, E., Cumming, W., **Hinz, N.**, Sussman, D., and Askew, T., 2020, Aerial thermal infrared survey of the Buranga geothermal prospect, Uganda: World Geothermal Congress.
- Mann, M., Stelling, P., **Hinz, N.**, and Kaspereit, D., 2020, Conceptual model update and power capacity estimate, Hot Springs Bay Valley, Akutan, Alaska, USA: World Geothermal Congress.
- Garg, S., Haizlip, J., Stover, M., **Hinz, N.**, and Tang, Y., 2020, Reservoir modeling of Sorik Marapi geothermal field: World Geothermal Congress.
- Lugaizi, I., **Hinz, N.**, Cumming, W., Isabirye, E., and Mawejje, P., 2020, Rationalization of conceptual models for targeting temperature gradient drill holes using structural data at the Panyimur geothermal prospect, Uganda: World Geothermal Congress.
- Mawejje, P., **Hinz, N.H.**, Cumming, W., Isabirye, E., Lugayizi, I., and Natukunda, J.F., 2020, Exploration status of the Kibiro geothermal prospect, western Uganda: World Geothermal Congress.
- Faulds, J.E., **Hinz, N.H.**, Coolbaugh, M.F., Ramelli, A.R., Glen, J.M., Ayling, B., Wannamaker, P.E., DeOreo, S., Siler, D.L., and Craig, J.W., 2019, PROCEEDINGS, 44th Workshop on Geothermal Reservoir Engineering Stanford University, Stanford, California, February 11-13, 2019, SGP-TR-214, 11 p.
- Hinz, N.H.**, Cumming, B., and Sussman, D., 2018, Exploration of fault-related deep-circulation geothermal resources in the western branch of the East African Rift System: Examples from Uganda and Tanzania: Proceedings, 7th African Rift Geothermal Conference, Kigali, Rwanda, 31st October – 2nd November, 2018, 16 p.
- Isabirye, E.M., **Hinz, N.**, Natukunda, J.F., Mawejje, P., and Lugayizi, I., 2018, Status of geothermal energy exploration at Katwe-Kikorongo geothermal prospect, western Uganda: Proceedings, 7th African Rift Geothermal Conference, Kigali, Rwanda, 31st October – 2nd November, 2018, 15 p.
- Mawejje, P., **Hinz, N.H.**, Isabirye, E., Lugaizi, I., and Natukunda, J.F., 2018, The contributions of additional geological and structural studies on the conceptual model and temperature gradient holes sites for Kibiro geothermal field: Proceedings, 7th African Rift Geothermal Conference, Kigali, Rwanda, 31st October – 2nd November, 2018, 12 p.
- Lugaizi, I., **Hinz, N.**, Cumming, W., Birungi, R.N., and Ssemuyaba, F.W., 2018, Updated structural and conceptual models for targeting temperature gradient drilling at the Panyimur geothermal prospect,

- Uganda: Proceedings, 7th African Rift Geothermal Conference, Kigali, Rwanda, 31st October – 2nd November, 2018, 15 p.
- Vivian-Neal, P., Wilmarth, M., Haizlip, J., **Hinz, N.**, Harrison, P., and Sikokwa, S., 2018, Zambia: Exploration of the Non-volcanic, Fault Hosted Bwengwa River Geothermal Resource Area: Proceedings, 7th African Rift Geothermal Conference, Kigali, Rwanda, 31st October – 2nd November, 2018, 16 p.
- Faulds, J.E., Craig, J.W., Coolbaugh, M.F., **Hinz, N.H.**, Glen, J.M., and DeOreo, S., 2018, Searching for Blind Geothermal Systems Utilizing Play Fairway Analysis, Western Nevada: GRC Bulletin, vol. 47, no. 5, x p.
- Faulds, J.E., Craig, J.W., Coolbaugh, M.F., **Hinz, N.H.**, Glen, J.M., and DeOreo, S., 2018, Searching for Blind Geothermal Systems Utilizing Play Fairway Analysis, Western Nevada: GRC Bulletin, vol. 47, no. 5, x p.
- Yap, L., Ayling, B., and **Hinz, N.**, 2018, Mapping sinter and travertine outcrops in the state of Nevada: Geothermal Resources Council Transactions, v. 42, p. x.
- Siler, D.L., Faulds, J.E., Glen, J.M.G., **Hinz, N.H.**, and the Fallon FORGE Team, 2018, New data yield new geologic insights at the Fallon FORGE site, Carson Sink Region, Nevada: Geothermal Resources Council Transactions, v. 42, p. x.
- Faulds, J.E., **Hinz, N.H.**, Siler, D.L., Glen, J., Fortuna, M., Queen, J., Blake, K., and the Fallon FORGE Team, 2018, Update on the stratigraphic and structural framework of the proposed Fallon FORGE site, Nevada: Geothermal Resources Council Transactions, v. 42, p. x.
- Faulds, J.E., Craig, J.W., **Hinz, N.H.**, Coolbaugh, M.F., Glen, J.M., Earney, T.E., Schermerhorn, W.D., Peacock, J., Deoreo, S.B., Siler, D.L., and Shevenell, L.A., 2018, Discovery of a blind geothermal system in southern Gabbs Valley, western Nevada, through application of the play fairway analysis at multiple scales: Geothermal Resources Council Transactions, v. 42, p. x.
- Earney, T.E., Schermerhorn, W.D., Glen, J.M., Peacock, J., Craig, J.W., Faulds, J.E., **Hinz, N.H.**, and Siler, D., 2018, Geophysical investigations of a potential blind geothermal system in southern Gabbs Valley, Nevada: Geothermal Resources Council Transactions, v. 42, p. x.
- DDU Team, 2018, Deep direct-use geothermal: Production side analysis form the Walker Lake Valley, Nevada: Geothermal Resources Council Transactions, v. 42, p. x.
- DDU Team, 2018, Deep direct-use geothermal: Development of a demand side model for the Hawthorne, Nevada area: Geothermal Resources Council Transactions, v. 42, p. x.
- Siler, D.L., **Hinz, N.H.**, Faulds, J.E., Ayling, B., Blake, K., Tiedeman, A., Sabin, A., Blankenship, D., Kennedy, M., Rhodes, G. Sophy, M.J., Glen, J.M.G., Phelps, G.A., Fortuna, M., Queen, J., and Witter, J.B., 2018, The geologic and structural framework of the Fallon FORGE site: 43rd Workshop on Geothermal Reservoir Engineering, Stanford University, Stanford, CA, Feb. 12-14, 7 p.
- Lautze, N., Thomas, D., Ito, G., Frazer, N., Martel, S., **Hinz, N.**, and Whittier, R., 2017, Review of the Hawaii Play Fairway Phase 2 Activities: 43rd Workshop on Geothermal Reservoir Engineering, Stanford University, Stanford, CA, Feb. 12-14, 9 p.
- Faulds, J.E., **Hinz, N.H.**, Coolbaugh, M.F., Shevenell, L.A., 2017, Discovering New Geothermal Systems in the Great Basin Region, Western USA: An Integrated Approach for Establishing Geothermal Play Fairways: Proceedings 39th New Zealand Geothermal Workshop, 21 - 25 November 2017, Rotorua, New Zealand, 7 p. [keynote paper].
- Kipngok, J., Magnússon, R., Melosh, G., **Hinz, N.**, Cumming, W., Haizlip, J., Harvey, M., Lopeyok T., Mwakirani, R., Wamalwa A.M., Malimo S.J. and Auko L.O., 2017, Geothermal conceptual model of Suswa Volcano, Kenya: Geothermal Resources Council Transactions, v. 41, p. 1153-1171.
- McConville, E.G., Faulds, J.E., **Hinz, N.H.**, Ramelli, A.R., Coolbaugh, M.F., Shevenell, L., Siler, D.L., and Bourdeau-Hernikl, J., 2017, A play fairway approach to geothermal exploration in Crescent Valley, Nevada: Geothermal Resources Council Transactions, v. 41, p. 1213-1221.
- Craig, J.W., Faulds, J.E., Shevenell, L.A., and **Hinz, N.H.**, 2017, Discovery and analysis of a potential blind geothermal system in southern Gabbs Valley, western NV: Geothermal Resources Council Transactions, v. 41, p. 2258-2264.

- Blankenship, D., Kennedy, M., Majer, E.L., **Hinz, N.**, Faulds, J., Ayling, B., Blake, K., Tiedeman, A., Sabin, A., Lazaro, M., Akerley, J., Siler, D., Kaven, J.O., Phelps, G., Hickman, S., Glen, J., Williams, C., Robertson-Tait, A., Hackett, L., and Pettit, W., 2017, Proposed Fallon FORGE site: Phase 2 update: Proceedings, 42nd Workshop on Geothermal Reservoir Engineering, Stanford University, Stanford, CA, Feb. 13-15, SGP-TR-212, 7 p.
- Faulds, J.E., Coolbaugh, M.F., **Hinz, N.H.**, Sadowski, A., Shevenell, L.A., McConville, E., Craig, J., Sladek, C., and Siler, D.L., 2017, Progress report on the Nevada Play Fairway Project: Integrated geological, geochemical, and geophysical analyses of possible new geothermal systems in the Great Basin region: 42nd Workshop on Geothermal Reservoir Engineering, Stanford University, Stanford, CA, Feb. 13-15, 12 p.
- Lautze, N., Thomas, D., Whittier, R., Martel, S., Ito, G., Frazer, N., Hill, G., Martin, T., Wannamaker, P., and **Hinz, N.**, 2017, Improving a 2015 map of geothermal resource probability across the State of Hawaii: 42nd Workshop on Geothermal Reservoir Engineering, Stanford University, Stanford, CA, Feb. 13-15, 8 p.
- Hinz, N.H.**, Coolbaugh, M., Faulds, J.E., Shevenell, L., and Stelling, P., 2016, Regional quantitative play fairway analysis: Methodology, global examples, and application for the East African Rift System: Proceedings, 6th African Rift Geothermal Conference, Addis Ababa, Ethiopia, 2nd – 4th November, 2016, 12 p.
- Faulds, J.E., **Hinz, N.H.**, Coolbaugh, M.F., Shevenell, L.A., and Siler, D.L., 2016, The Nevada play fairway project – Phase II: Initial search for the new viable geothermal systems in the Great Basin region, western USA: Geothermal Resources Council Transactions, v. 40, p. 535-540.
- Siler, D.L., Blake, K., Sabin, A., Lazaro, M., Meade, D., Blankenship, D., Kennedy, B.M., McCulloch, J., DeOreo, S., Hickman, S., Glen, J., Kaven, O., Schoenball, M., Williams, C., Phelps, G., Faulds, J.E., **Hinz, N.H.**, and Robertson-Tait, A., 2016, The geologic framework of the West Flank of Coso FORGE site: Geothermal Resources Council Transactions, v. 40, p. 585-595.
- Siler, D.L., **Hinz, N.H.**, Faulds, J.E., Tobin, B., Blake, K., Tiedeman, A., Sabin, A., Blankenship, D., Kennedy, M., Rhodes, G., Nordquist, J., Hickman, S., Glen, J., Williams, C., Robertson-Tait, A., and Calvin, W., 2016, The geologic framework of the Fallon FORGE site: Geothermal Resources Council Transactions, v. 40, p. 573-584.
- Witter, J.B., Stelling, P., Knapp, P., and **Hinz, N.H.**, 2016, 3D geophysical inversion modelling of gravity data as a subsurface exploration tool with an example from the Akutan (Alaska, USA) geothermal area: Geothermal Resources Council Transactions, v. 40, p. 647-657.
- Lautze, N., Thomas, D., Hill, G., Wallin, E., Whittier, R., Martel, S., Ito, G., Frazer, N., and **Hinz, N.**, 2016, Phase 2 activities to improve a 2015 play fairway analysis of geothermal potential across the State of Hawaii: Geothermal Resources Council Transactions, v. 40, p. 559-565.
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