

Curriculum Vitae

Dr. rer. nat. Tobias Björn Weisenberger

Dipl.-Geol.



Personal Information

Date/ Place of birth: 04.12.1979, Emmendingen/Germany
Gender: Male
Marital status: Married
Nationality: German

Positions Held

Geological

2021 – recent Director Research Centre Breiðdalsvík, University of Iceland
2014 – 2021 Geochemist, Iceland GeoSurvey (ÍSOR), Reykjavik, Iceland
2013 – 2014 Director International Master Program “Economic Geology”, Department of Geosciences, University of Oulu/Finland
2012 – 2014 Lecturer, Department of Geosciences, University of Oulu, Finland
2010 – 2012 Postdoctoral fellow, Bureau of Economic Geology, Jackson School of Geosciences, The University of Texas at Austin, USA
2006 – 2008 Research and teaching assistant at Institute of Mineralogy and Geochemistry, Albert-Ludwigs-University of Freiburg, Germany
2002 – 2005 Scientific student assistant at Institute of Mineralogy and Geochemistry, Albert-Ludwigs-University of Freiburg, Germany
2001 – 2003 Geological field assistant in an engineering company “Klipfel-Lenhardt-Consult“, Endingen, Germany

Related Experience

2000 Pfizer, Freiburg, Pharmacy concern
1999 – 2000 Oetiker, Endingen, Metalworking industry

Education

University Education

2009 Graduation Albert-Ludwigs University Freiburg, Germany: Dr rer. nat. (magna cum laude). Title of PhD thesis: "Zeolites in fissures of crystalline basement rocks"
2009 Hermann-Staudinger-Graduate School, Albert-Ludwigs University Freiburg, Germany: 78.22 credit points (>20 credit points: above average participation)
2006 – 2009 Ph.D. study at the Institute of Mineralogy and Geochemistry, Freiburg, Germany
2005 Graduation Albert-Ludwigs University Freiburg, Germany: Diploma (overall grade good). Title of diploma thesis: "Zeolite facies mineralisation in the Hvalfjörður area, Iceland"
2000 –2005 Geoscience study at the Albert-Ludwigs University of Freiburg; Areas of concentration: Mineralogy, Petrology, Geochemistry and Volcanology

Primary School/ Secondary School

1999	Graduation “High School Leaving Certificate, A-Levels“
1990 – 1999	Secondary school, Gymnasium Kenzingen, Germany
1986 – 1990	Primary school in Endingen, Germany

Administrative Experience /Honorary Post and Organization Work

2013 – 2014	Director International Master Program Economic Geology, University of Oulu
2013 – 2014	Member of the advisory board “Center of Microscopy and Nanotechnology”, University of Oulu
2001 – 2005	Active member of the student council geology/mineralogy
10/2002 – 09/2004	Elected student representative at the Faculty of chemistry, pharmacy and geosciences; University Freiburg
10/2002 – 09/2003	Student representative at the study board for chemistry, pharmacy and geosciences
10/2003 – 09/2005	Student representative on the study board for geosciences
10/2002 – 09/2005	Student representative in the examination board for geology
11/2003	Managed and organized the 4 days “Annual German Student Council Meeting” for geology students (BuFaTa) including workshops, lectures, excursions and social events.
10/1999 – recent	Volunteer as fire-fighter at the fire department Endingen, division Amoltern, Germany, webmaster and public relation representative

Publications

Peer-Reviewed Papers (in preparation/submitted)

- 30) Nelson C., Jacobson A. & **Weisenberger T.B.** (submitted 12/2021) Controls on riverine calcium isotope ratios during basalt weathering in the Skagafjörður watershed, Iceland.
- 29) Prause S., **Weisenberger T.B.**, Kleine B.I., Monien P., Rispoli C. & Stefánsson A. (submitted 12/2021) Alteration of basaltic glass within the Surtsey hydrothermal system, Iceland – implication to oceanic crust seawater interaction.
- 28) Galeczka I.M., Stefánsson A., Kleine B.I., Gunnarsson-Robin J., Snæbjörnsdóttir S.Ó., Sigfússon B., Gunnarsdóttir S.H., **Weisenberger T.B.** & Oelkers E.H. (submitted 08/2021) A pre-injection assessment of CO₂ and H₂S mineralization reactions at the Nesjavellir (Iceland) geothermal storage site.

Peer-Reviewed Papers (published)

- 27) Kleine B.I., Stefánsson A., Zierenberg R.A., Jeon H., Whitehouse M.J., Jónasson K., Fridleifsson G.Ó. & **Weisenberger T.B.** (2022) Sulfate (re-)cycling in the oceanic crust: Effects of seawater-rock interaction, sulfur reduction and temperature on the abundance and isotope composition of anhydrite. *Geochimica et Cosmochimica Acta*, 317, 65-90 (doi: 10.1016/j.gca.2021.10.016).
- 26) Montanaro C., Mortensen A.K., **Weisenberger T.B.**, Dingwell D.B. & Scheu B. (2021) Stratigraphic reconstruction of the Víti breccia at Krafla volcano (Iceland): insights into pre-eruptive conditions priming explosive eruptions in geothermal areas. *Bulletin of Volcanology*, 83(11), 81 (doi: 10.1007/s00445-021-01502-y).
- 25) Nelson C.J., Jacobson A.D., Kitch G.D. & **Weisenberger T.B.** (accepted 09/2021) Large calcium isotope fractionations by zeolite minerals from Iceland. *Communications Earth & Environment*, 2 (1) (doi: 10.1038/s43247-021-00274-9).
- 24) Lipus M.P., Reinsch T., **Weisenberger T.B.**, Kragset S., Stefánsson Á. & Bogason S.G. (2021) Monitoring of a reverse cement job in a high-temperature geothermal environment: *Geothermal Energy*, 9 (1) (doi: 10.1186/s40517-021-00187-y).
- 23) Fosu B., Ghosh P., **Weisenberger T.B.**, Spürigin S. & Viladkar S.G. (2021) A triple oxygen isotope perspective on the origin, evolution, and diagenetic alteration of carbonatites. *Geochimica et Cosmochimica Acta*, 299, 52-68 (doi: 10.1016/j.gca.2021.01.037).
- 22) **Weisenberger T.B.**, Ingimarsson H., Hersir G.P. & Flóvenz Ó.G. (2020) Cation-Exchange Capacity Distribution within Hydrothermal Systems and its Relation to the Alteration Mineralogy and Electrical Resistivity. *Energies*, 13 (21), 5730 (doi: 10.3390/en13215730).

- 21) Kleine B.I., Stefánsson A., Kjartansdóttir R., Prause S., **Weisenberger T.B.**, Reynolds H.I., Sveinbjörnsdóttir Á.E., Jackson M.D. & Gudmundsson, M.T. (2020) The Surtsey volcano geothermal system: an analogue for seawater-oceanic crust interaction with implications for the elemental budget of the oceanic crust. *Chemical Geology*, 555, 119702 (doi: 10.1016/j.chemgeo.2020.119702)
- 20) Bucher K., **Weisenberger T.B.**, Weber S., Klemm O. & Corfu F. (2020) The Theodul Glacier Unit, a slab of pre-Alpine rocks in the Alpine meta-ophiolite of Zermatt-Saas, Western Alps. *Swiss Journal of Geoscience*, 131 (doi:10.1186/s00015-020-00354-6).
- 19) Prause S., **Weisenberger T.B.**, Cappelletti P., Grimaldi C., Rispoli C., Jónasson K., Jackson M.D. & Gudmundsson M.T. (2020) Alteration progress within the Surtsey hydrothermal system, SW Iceland – A time-lapse petrographic study of cores drilled in 1979 and 2017. *Journal of Volcanology and Geothermal Research*, 392, 106754. (doi: 10.1016/j.jvolgeores.2019.106754).
- 18) Friðleifsson G.Ó., Elders W.A., Zierenberg R.A., Fowler A.P.G., **Weisenberger T.B.**, Mesfin K.G., Sigurðsson Ó., Níelsson S., Einarsson G., Óskarsson F., Guðnason E.G., Tulinius H., Hokstad K., Benoit G., Nonog F., Loggia D., Parat F., Cichy S.B., Escobedo D. & Mainprice D. (2020) The Iceland Deep Drilling Project at Reykjanes: Drilling into the root zone of a black smoker analog. *Journal of Volcanology and Geothermal Research*, 391, 106435 (doi: 10.1016/j.jvolgeores.2018.08.013).
- 17) Bucher K., **Weisenberger T.B.**, Klemm O. & Weber S. (2019) Decoding the complex internal chemical structure of garnet porphyroblasts from the Zermatt area, Western Alps. *Journal of Metamorphic Geology*, 37 (9), 1151-1169 (doi:10.1111/jmg.12506).
- 16) **Weisenberger T.B.**, Eichhubl P., Laubach S.E. & Fall A. (2019) Degradation of fracture porosity in sandstone by carbonate cement, Piceance basin, Colorado, USA. *Petroleum Geoscience*, 25 (4), 354-370 (doi: 10.1144/petgeo2018-162).
- 15) Spürgin S., **Weisenberger T.B.** & Marković M. (2019) Zeolite-group minerals in phonolite-hosted deposits of the Kaiserstuhl Volcanic Complex, Germany. *American Mineralogist*, 104 (5), 659-670 (doi: 10.2138/am-2019-6831).
- 14) Jackson M.D., Gudmundsson M.T., **Weisenberger T.B.**, Rhodes J.M., Stefánsson A., Kleine B.I., Lippert P.C., Marquardt J.M., Reynolds H.I., Kück J., Marteinsson V.P., Vannier P., Bach W., Barich A., Bergsten P., Bryce J.G., Cappelletti P., Couper S., Fahnestock M.F., Gorny C.F., Grimaldi C., Groh M., Gudmundsson Á., Gunnlaugsson Á.Þ., Hamlin C., Högnadóttir Th., Jónasson K., Jónsson S.S., Jørgensen S.L., Klonowski A.M., Marshall B., Massey E., McPhie J., Moore J.G., Ólafsson E.S., Onstad S.L., Perez V., Prause S., Snorrason S.P., Türke A., White J.D.L. & Zimanowski B. (2019) SUSTAIN drilling at Surtsey volcano, Iceland, tracks hydrothermal and microbiological interactions in basalt 50 years after eruption. *Scientific Drilling*, 25, 35-46 (doi: 10.5194/sd-25-35-2019).
- 13) Friðleifsson G.Ó., Elders W.A., Zierenberg R.A., Stefánsson A., Fowler A.P.G., **Weisenberger T.B.**, Harðarson B.S. & Mesfin K.G. (2017) The Iceland Deep Drilling Project 4.5 km deep well, IDDP-2, in the seawater-recharged Reykjanes geothermal field in SW Iceland has successfully reached its supercritical target. *Scientific Drilling*, 23, 1-12 (doi: 10.5194/sd-23-1-2017).
- 12) Zierenberg R.A., Fowler A.P.G., Friðleifsson G.O., Elders W.A. & **Weisenberger, T.B.** (2017) Preliminary description of rocks and alteration in IDDP-2 drill core samples recovered from the Reykjanes geothermal system, Iceland. *Geothermal Resources Council Transactions*, 41, 1599-1615.
- 11) Jackson M. D., Gudmundsson M. T., Schiffman P., Bach W., Cappelletti P., Coleman N., Ivarsson M., Jónasson K., Jørgensen S. L., Marteinsson V. P., McPhie J., Moore J. G., Nielson D., Rhodes J. M., Rispoli C., Stefánsson A., Türke A., Vanorio T., **Weisenberger T. B.**, White J., Zierenberg R. & Zimanowski B. (2015) Time-lapse characterization of hydrothermal seawater and microbial interactions with basaltic tephra at Surtsey volcano. *Scientific Drilling*, 20, 51-58 (doi: 10.5194/sd-20-51-2015).
- 10) **Weisenberger T.B.**, Spürgin S. & Lahaye Y. (2014) Hydrothermal alteration of the Fohberg phonolite, Kaiserstuhl Volcanic Complex, Germany. *International Journal of Earth Sciences*, 103 (8), 2273-2300 (doi: 10.1007/s00531-014-1046-1).
- 9) Bucher K. & **Weisenberger T.B.** (2013) Fluid induced mineral composition adjustments during exhumation: The case of Alpine stilbite. *Contributions to Mineralogy and Petrology*, 166 (5), 1489-1503 (doi: 10.1007/s00410-013-0939-5).
- 8) Kousehlar M., **Weisenberger T.**, Tutti F., & Mirnejad H. (2012) Fluid control on low-temperature mineral formation in volcanic rocks of Kahrizak, Iran. *Geofluids*, 12 (4), 295-311 (doi: 10.1111/gfl.12001).

- 7) **Weisenberger T.**, Rahn M., van der Lelji R., Spikings R. & Bucher K. (2012) Timing of low-temperature mineral formation during exhumation and cooling in the Central Alps, Switzerland. *Earth and Planetary Science Letters*, 327-328, 1-8 (doi: 10.1016/j.epsl.2012.01.007).
- 6) **Weisenberger T.** & Bucher K. (2011) Mass transfer and porosity evolution during low temperature water-rock interaction in gneisses of the Simano nappe: Arvigo, Val Calanca, Swiss Alps. *Contributions to Mineralogy and Petrology*, 162 (1), 61-81 (doi: 10.1007/s00410-010-0583-2).
- 5) **Weisenberger T.** & Bucher K. (2010) Zeolites in fissures of granites and gneisses of the Central Alps. *Journal of Metamorphic Geology*, 28 (8), 825-847 (doi: 10.1111/j.1525-1314.2010.00895.x).
- 4) **Weisenberger T.** & Selbekk R.S. (2009) Multi-stage zeolite facies mineralization in the Hvalfjörður area, Iceland. *International Journal of Earth Sciences*, 98, 985-999 (doi: 10.1007/s00531-007-0296-6).
- 3) **Weisenberger T.** & Spürgin S. (2009) Zeolites in alkaline rocks of the Kaiserstuhl volcanic complex, SW Germany - new microprobe investigation and their relationship to the host rock. *Geologica Belgica*, 12/1-2, 75-91.
- 2) Spürgin S., **Weisenberger T.** & Hörth J. (2008) Das Leucitophyrvorkommen vom Strümpfekopf im Kaiserstuhl – eine historische und mineralogische Betrachtung. *Berichte der Naturforschenden Gesellschaft zu Freiburg i. Br.* 98, 221-244.
- 1) Selbekk R.S. & **Weisenberger T.** (2005) Stellerite from the Hvalfjörður area, Iceland. *Jökull*, 55, 49-52.

Editorial

- 1) **Weisenberger T.** & Juntilla H. (2013) Program and Abstracts of the 9th National Geological Colloquium Oulu, 6th - 8th March 2013. *Res Terrae Series A No 34*, 66p, http://cc.oulu.fi/~resterr/jutut/A34_Weisenberger.pdf

Reports

- 49) Gunnarsdóttir S.H., Akın S., **Weisenberger T.B.**, Clark D., Galeczka I.M., Helgadóttir H.M., Marteinsson K., Þorgilsson G., Akın T., Baser A., Erol S., Kucuk S., Saracoglu O., Trumpy E., Montegrossi G., Batini F., Bicocchi G., Gola G., Manzella A., Orlando A., Ronconi A., Ruggieri G., Santilano A., Jagert F., Nardini I. & Seidel T. (2021) D2.9: Report on integrated geological and reservoir models and injection modelling. *Geothermal Emission Control (GECO) deliverable report*. 258 pp.
- 48) **Weisenberger T.B.**, Einarsson G.M. & Þorbergsson A., (2020) MAP0006: D5.6 Epithermal testing report. *EIT Raw Material report*, 68 pp.
- 47) Einarsson G.M., Akın S., Lelli M., Erstling S., **Weisenberger T.B.**, Akın T., Baneschi I., Baser A., Erol S., Jagert F., Guðgeirsdóttir G., Nardini I., Nehler M., Óladóttir A.A., Raco B., Saracoglu O., Snæbjörnsdóttir S.Ó. & Þorsteinsdóttir U. (2020) D2.5: Baseline data collection for CO₂ flux, soil temperature, gas sampling, groundwater chemistry and development of remote sensing methods at the GECO demo sites. *Geothermal Emission Control (GECO) deliverable report*. 169 pp.
- 46) Helgadóttir H.M., Sigurgeirsson M.Á., Jónsson S.S., **Weisenberger T.B.**, Tryggvason H.H., Jónsson J.E. & Guðmundsdóttir V. (2020) Nesjavellir – Hóla NJ-32 - 3. áfangi: Borun fyrir 9% götuðum leiðara í 2398 m. *Iceland GeoSurvey, ÍSOR-2020/039*, 114 pp.
- 45) Montegrossi G., Trumpy E., Boschi C., Manzella A., Santilano A., Batini F., Ronconi A., Þorgilsson G., Marteinsson K., Gunnarsdóttir S.H., Akın S., Kucuk S., Saracoglu O., Erol S., Baser A., Nardini I., Jagert F., Seidel T. & **Weisenberger T.B.** (2020) D2.2: Reservoir modelling and sensitivity study of the demo sites. *Geothermal Emission Control (GECO) deliverable report*. 147 pp.
- 44) Sigurgeirsson M.Á., Helgadóttir H.M., Gunnarsdóttir S.H., **Weisenberger T.B.** & Tryggvason H.H. (2020) Nesjavellir – Hóla NJ-32 - Forborun, 1 og 2. áfangi: Borun fyrir yfirborðsfóðringu í 106 m, öryggisfóðringu í 352 m og vinnslufóðringu í 1100 m. *Iceland GeoSurvey, ÍSOR-2020/036*, 86 pp.
- 43) Kaldal G.S., **Weisenberger T.B.**, Hagalínsson G.B. & Þorbjörnsson D. (2020) Drilling Design for Exploration Wells in Welirang Telomoyo - Final Report. *Iceland GeoSurvey, ÍSOR-2020/029*, 106 pp.
- 42) **Weisenberger T.B.**, Kaldal G.S., Hagalínsson G.B. & Þorbjörnsson D. (2020) Drilling Design for Exploration Wells in Candi Umbul Telomoyo - Final Report. *Iceland GeoSurvey, ÍSOR-2020/028*, 108 pp.
- 41) Helgadóttir H.M., Sigurgeirsson M.Á., Gunnarsdóttir S.H., Jónsson S.S., **Weisenberger T.B.** & Tryggvason H.H. (2020) Helliheiði – Hóla HE-66 Forborun, 1 og 2. áfangi: Borun fyrir

yfirborðsfóðringu í 95 m, öryggisfóðringu í 330 m og vinnslufóðringu í 1200 m. Iceland GeoSurvey, ÍSOR-2020/024, 71 pp.

- 40) **Weisenberger T.B.**, Akın S., Jagert F., Boschi C., Akın T., Baneschi I., Baser A., Bicocchi G., Bonini M., Botteghi S., Brogi A., Boschi C., Dini A., Erol S., Erstling S., Gola G., Gunnarsdóttir S.H., Helgadóttir H.M., Kucuk S., Lelli M., Liotta D., Manzella A., Montanari D., Montegrossi G., Nardini I., Nehler M., Norelli F., Orlando A., Raco B., Rielli A., Ruggieri G., Saracoglu O., Snæbjörnsdóttir S.Ó. & Trumpy E. (2020) D2.1: Report of the characterization of the demo-sites. Geothermal Emission Control (GECO) deliverable report. 127 pp.
- 39) Helgadóttir H.M., Sigurgeirsson M.Á., Jónsson S.S., Jónsson J.E. & **Weisenberger T.B.** (2020) Hellisheiði – Hola HN-18 3.áfangi: Borun fyrir 9⁵/₈" götuðum leiðara í 2722 m. Iceland GeoSurvey, ÍSOR-2020/016, 91 pp.
- 38) **Weisenberger T.B.** (2020) Reconnaissance Study on Scaling in Wells K-14 and K-15 within the Krafla Geothermal Field. GeoSurvey, short report ÍSOR-20008, 30 pp.
- 37) Helgadóttir H.M., Sigurgeirsson M.Á., **Weisenberger T.B.**, Tryggvason H.H. & Jónsson J.E. (2020) Hellisheiði – Hola HN-18 Forborun, 1 og 2. áfangi: Borun fyrir yfirborðsfóðringu í 89 m, öryggisfóðringu í 282 m og vinnslufóðringu í 761 m. Iceland GeoSurvey, ÍSOR-2020/013, 56 pp.
- 36) Sigurgeirsson M.Á., Helgadóttir H.M., **Weisenberger T.B.** & Tryggvason H.H. (2020) Hellisheiði – Hola HE-65 3. áfangi: Borun fyrir 7" götuðum leiðara í 2497 m dýpi. Iceland GeoSurvey, ÍSOR-2020/007, 84 pp.
- 35) Jóhannesson Th., Axelsson G., Hauksdóttir S., Chatenay C., Benediktsson D.Ö. & **Weisenberger T.B.** (2019). Preliminary review of geothermal resources in Kazakhstan, Final Report. VERKÍS & ÍSOR report, 86 pp.
- 34) **Weisenberger, T.B.** & Sæmundsson S. (2019) Lithology of well MS-4 at Miðsandur in Hvalfjörður. GeoSurvey, ÍSOR-2019/071, 38 pp.
- 33) Helgadóttir H.M., Sigurgeirsson M.Á., **Weisenberger T.B.**, Jónsson S.S. & Tryggvason H.H. (2019) Hellisheiði – Hola HE-65 - Forborun, 1. og 2. áfangi: Borun fyrir yfirborðsfóðringu í 105 m, öryggisfóðringu í 485 m og vinnslufóðringu í 1113 m. Iceland GeoSurvey, ÍSOR-2019/065, 68 pp.
- 32) Sigurgeirsson M.Á., Ásgeirsdóttir R.St., **Weisenberger T.B.**, Þorstein E. & Tryggvason H.H. (2019) Hellisheiði – Hola HE-64 – 3. áfangi: Borun fyrir 9⁵/₈" götuðum leiðara í 1939 m dýpi. Iceland GeoSurvey, ÍSOR-2019/058, 68 pp.
- 31) **Weisenberger T.B.** & Richter B. (2019) Sharaan Desert Resort/ International Summit Center/ Villas – Desktop Study on Geothermal Potential. GeoSurvey, short report ÍSOR-19045, 8 pp.
- 30) Sigurgeirsson M.Á., Ásgeirsdóttir R.St., **Weisenberger T.B.**, Þorsteinsdóttir U. & Tryggvason H.H. (2019) Hellisheiði – Hola HE-64 - 1. og 2. áfangi: Borun fyrir öryggisfóðringu í 280 m og vinnslufóðringu í 794 m. Iceland GeoSurvey, ÍSOR-2019/054, 55 pp.
- 29) **Weisenberger T.B.**, Gudmundsson M.T., Jackson M.D., Gorny C., Türke A., Kleine B.I., Marshall B., Jørgensen S.L., Marteinson V.P., Stefánsson A., White J.D.L., Barich A., Bergsten P., Bryce J., Couper S., Fahnestock F., Franzson H., Grimaldi C., Groh M., Guðmundsson Á., Gunnlaugsson Á.P., Hamlin C., Högnadóttir Þ., Jónasson K., Jónsson S.S., Klonowski A., Kück J., Magnússon R.L., Massey E., McPhie J., Ólafsson E.S., Onstad S.L., Prause S., Perez V, Rhodes J.M. & Snorrason S P. (2019) Operational Report for the 2017 Surtsey Underwater volcanic System for Thermophiles, Alteration processes and INnovative Concretes (SUSTAIN) drilling project at Surtsey Volcano, Iceland, Geo Forschungs Zentrum (GFZ) German Research Centre for Geosciences. doi: <https://doi.org/10.2312/ICDP.5059.001>, 2019.
- 28) **Weisenberger T.B.**, Gudmundsson M.T., Jackson M.D., Gorny C., Türke A., Kleine B.I., Marshall B., Jørgensen S.L., Marteinson V.P., Stefánsson A., White J.D.L., Barich A., Bergsten P., Bryce J., Couper S., Fahnestock F., Franzson H., Grimaldi C., Groh M., Guðmundsson Á., Gunnlaugsson Á.P., Hamlin C., Högnadóttir Þ., Jónasson K., Jónsson S.S., Klonowski A., Kück J., Magnússon R.L., Massey E., McPhie J., Ólafsson E.S., Onstad S.L., Prause S., Perez V, Rhodes J.M. & Snorrason S P. (2019) Scientific data sets of the 2017 Surtsey Underwater volcanic System for Thermophiles, Alteration processes and INnovative concretes (SUSTAIN) drilling project at Surtsey Volcano, Iceland, GFZ Data Services, <https://doi.org/10.5880/ICDP.5059.001>
- 27) **Weisenberger T.B.**, Gudmundsson M.T., Jackson M.D., Gorny C., Türke A., Kleine B.I., Marshall B., Jørgensen S.L., Marteinson V.P., Stefánsson A., White J.D.L., Barich A., Bergsten P., Bryce J., Couper S., Fahnestock F., Franzson H., Grimaldi C., Groh M., Guðmundsson Á., Gunnlaugsson Á.P., Hamlin C., Högnadóttir Þ., Jónasson K., Jónsson S.S., Klonowski A., Kück J., Magnússon R.L.,

Massey E., McPhie J., Ólafsson E.S., Onstad S.L., Prause S., Perez V., Rhodes J.M. & Snorrason S.P. (2019) Explanatory remarks on the scientific data sets of the 2017 Surtsey Underwater volcanic System for Thermophiles, Alteration processes and INnovative concretes (SUSTAIN) drilling project at Surtsey Volcano, Iceland, GFZ German Research Centre for Geosciences, <https://doi.org/10.2312/ICDP.5059.002>

- 26) **Weisenberger T.B.** & Galeczka I.W. (2019) CHPM Case Study Fluid Characterisation within the Hvalfjörður Low-temperature Geothermal System. GeoSurvey, short report ÍSOR-19032, 10 pp.
- 25) Óskarsson F. & **Weisenberger T.B.** (2018) IDDP-2: Composition of Reservoir Fluid. GeoSurvey, short report ÍSOR-18022, 14 pp.
- 24) Kristinsson S.G., Ingimarsson, H., **Weisenberger T.B.** & Erlendsson Ö (2018) Hoffell í Nesjum – Hola HF-5, Borsaga, jarðlagaskipan, afköst og mælingar. ÍSOR-2018/085. 65 pp.
- 23) Helgadóttir H.M., **Weisenberger T.B.**, Sigurgeirsson M.Á, Mesfin K.G., Tryggvason H., Tulinius H. & Guðmundsdóttir V. (2018) Reykjanes – Well RN-36. Drilling of Well RN-36 from Surface down to 2381 m and Geothermal Studies during the Drilling of the Well. Iceland GeoSurvey, ÍSOR-2018/029. 198 pp.
- 22) Ingimarsson H., **Weisenberger T.B.**, Helgadóttir H.M. & Árnason A.B. (2018) Laugaland í Holtum – Hola LL-6. Borsaga, jarðfræði og mælingar. Iceland GeoSurvey, ÍSOR-2018/025. 60 pp.
- 21) Helgadóttir H.M., Ásgeirsdóttir R.St., Jónsson S.S., Guðjónsdóttir S.R., **Weisenberger T.B.**, Níelsson S., Tryggvason H., Tulinius H., Guðnason E.Á. & Gunnarsson B.S. (2017) Well Report - RN-35: Drilling of Well RN-35 in Reykjanes from Surface down to 2800 m and Geothermal Studies during the Drilling of the Well. Iceland GeoSurvey, ÍSOR-2017/064, 136 pp.
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- 11) Eichhubl P., Gale J. F., Olson J. E., Laubach S. E., Hooker J. N., Fall A., **Weisenberger T. B.** & Ukar E. (2012) What can outcrop and core based observations tell us about natural fractures in unconventional reservoirs? American Association of Petroleum Geologists Annual Convention and Exhibition, April 22-25, 2012, Long Beach, California; # 1236894
- 10) **Weisenberger T.**, Rahn M., van der Lelij R., Spikings R. & Bucher K. (2009) Timing and mineral evolution during low-temperature fluid-rock interaction on upper crustal level: an approach of $^{40}\text{Ar}/^{39}\text{Ar}$ apophyllite-(KF) dating, apatite fission track analysis and thermodynamic modeling on Alpine fissures. 87th Annual Meeting of the German Mineralogical Society – DMG 13th–16th September 2009 Halle. Hallesches Jahrbuch für Geowissenschaften 31, 261 (Poster)
- 9) **Weisenberger T.** & Bucher K. (2008) Ca-Al silicate formation during low-grade metamorphism in the upper continental crust. 86th Annual Meeting of the German Mineralogical Society – DMG 14th–17th September 2008 Berlin, S18T06 (Talk)
- 8) Spürgin S. & **Weisenberger T.** (2008) Faujasite growth during palagonitisation of Mg-rich sideromelane: an example from the Kaiserstuhl Volcanic Complex, SW Germany. 86th Annual Meeting of the German Mineralogical Society – DMG 14th–17th September 2008 Berlin, S18P07 (Poster)
- 7) **Weisenberger T.** & Bucher K. (2008) Porosity evolution and mass transfer during low-grade metamorphism in crystalline rocks of the upper continental crust. 33rd IGC International Geological Congress 6th-14th August 2008 Oslo, MPN03710L (Talk)
- 6) **Weisenberger T.** & Bucher K. (2007) Porosity increase during low-temperature metamorphism in gneisses of the Simano nappe (Arvigo, Val Calanca). 5th Swiss Geoscience Meeting 17th-18th November 2007 Geneva, Switzerland, 104-105 (Poster)
- 5) **Weisenberger T.** & Bucher K. (2007) Low-grade zeolite facies metamorphism in gneisses of the Simano nappe (Arvigo, Val Calanca, Grisons, Switzerland). *Geochimica et Cosmochimica Acta* 71(15) Supplement 1, A1100 (Talk)
- 4) Selbekk R.S. & **Weisenberger T.** (2007) Multi-stage zeolite facies metamorphism, Southwest Iceland. NGF Winter conference Stavanger 8th-10th January 2007. NGF Abstracts and Proceedings of the Geological Society of Norway 1, 90 (Poster)
- 3) **Weisenberger T.** & Bucher K. (2006) Zeolites on fissures of alpine crystalline basement rocks in the Swiss Alps. *Berichte der Deutschen Mineralogischen Gesellschaft, Beiheft zum European Journal of Mineralogy* 18 (1), 153 (Talk)
- 2) Selbekk R.S. & **Weisenberger T.** (2006) Zeolite facies metamorphism in the Hvalfjörður area, Iceland. In Bowman R.S. and Delap S.E. *Zeolite '06 - 7th International Conference on the Occurrence,*

Properties, and Utilization of Natural Zeolites, Socorro, New Mexico USA, 16th-21st July 2006, 220 (Poster)

- 1) **Weisenberger T.** & Bucher K. (2006): Zeolites on fissures of crystalline basement rocks in the Swiss Alps. In Bowman R.S. and Delap S.E. Zeolite '06 - 7th International Conference on the Occurrence, Properties, and Utilization of Natural Zeolites, Socorro, New Mexico USA, 16th-21st July 2006, 253 (Talk)

Thesis

- **Weisenberger T.** (2009) Zeolite in fissures of crystalline basement rocks. PhD thesis, University of Freiburg, 178 pp
- **Weisenberger T.** (2005) Zeolite facies mineralisation in the Hvalfjörður area, Iceland. Diploma thesis, University of Freiburg, 142 pp

Invited Talks

- Institute of Earth and Environmental Sciences, Albert-Ludwigs University Freiburg, Germany, 02/2014
- Instituto Andaluz de Ciencias de la Tierra, University of Granada, Spain, 06/2013
- Geological Survey of Finland, Espoo, Finland, 05/2013
- Department of Earth Sciences, Free University of Berlin, Germany, 05/2013
- Institute of Geological Sciences, University of Bern, Switzerland, 01/2012
- Bureau of Economic Geology, The University of Texas at Austin, 08/2010

Awards

- IceSUSTAIN: A New Drill Core at Surtsey Volcano: A Natural Laboratory for Time-Lapse Characterization of Hydrothermal Seawater and Microbial Interactions with Basaltic Tephra – Iceland contribution (2016). RANNIS, The Icelandic Research Fund, Grant of excellence. 468 (TBW: co-proposer; PI: Magnús Tumi Guðmundsson)
- ICDP SUSTAIN PROGRAM AT SURTSEY (2015) “A New Drill Core at Surtsey Volcano: A Natural Laboratory for Time-Lapse Characterization of Hydrothermal Seawater and Microbial Interactions with Basaltic Tephra”, \$ 1,021,468 (TBW: co-applicant; PI: Marie Jackson)
- K.H. Renlund Foundation (2014) “Geochemical signature of Au-bearing arsenopyrite and pyrite in orogenic gold deposits in Lapland”, 7,000.00 €
- K.H. Renlund Foundation (2013) “Geochemistry and petrology of the Laivakangas gold deposit”, 15,000.00 €
- Structural Diagenesis Fellowship - The GDL Foundation (2012) (\$ 9,019.50)
- Best Poster Presentation - Research Symposium Faculty of Chemistry, Pharmacy, and Earth Sciences, Albert-Ludwigs University Freiburg (2007)

Teaching Experience

Lectures

- Geothermal Sciences 1 & 2, Reykjavik University, Iceland (2018, 2019, 2020)
- Various courses (borehole geology, mineralogy, hydrothermal alteration) within the United Nation University - Geothermal Training program (2016-2019)
- Fluid Inclusion Studies (spring 2014, together with Ferenc Molnar)
- Introduction to Ore Mineralogy (fall 2013)
- Hydrothermal Ore deposits (2012)
- Sedimentary Ore deposits (2013)
- Gold Deposits (2012)
- Rocks and Minerals (fall terms: 08/09, 07/08, 06/07, 05/06, 04/05, 03/04, 02/03)
- Exercises Optical Microscopy (spring terms: 08, 05, 04, 03; fall terms 03/04)
- Exercises to Mineralogy and Petrology (spring terms: 07, 06)

Field Courses

- Several mine visits in Finland (3 days; 2013,2014)
- Black Forest excursion (1 day; 2006, 2005)
- Eifel excursion (3 days; 2007, 2005)

- Iceland excursion (15 days, 2005; 11 days, 2013)
- Kaiserstuhl excursion (1 day; 2008, 2006, 2005, 2004, 2003)
- Nördlinger Ries excursion (3 days; 2008, 2007, 2006)
- Schönberg/Freiburg excursion (1 day; 2006, 2005, 2004)
- Ballachulish/Scotland mapping course (7 days; 2008)
- Greina/Gotthard Massif/Switzerland mapping course (7 days; 2007)
- Zermatt/Switzerland excursion (assistant; 5 days, 2006)
- Lukmanier/Switzerland excursion (assistant; 3 days, 2006)
- Bretagne/France (assistant; 7 days, 2004)
- Vosges/France (assistant; 2 days, 2008)

Student Supervision

UNU-GTP (United Nation University – Geothermal Training Program)

- Araksan Ahmed Aden (2019) Borehole geology of well Fiale 3, Asal-Fiale geothermal field, Djibouti
- Adonias Mkangala (2017) Borehole geology of well THG-17 at Theistareykir Geothermal Field, NE-Iceland
- Ruth Nelima Wamalwa (2015) Evaluation of factors controlling the concentrations of non condensable gases and their possible impact on the performance of wells in the Olkaria

PhD student

- Simon Prause (to be completed 2021)
- Araksan Ahmed Aden (to be completed 2024)

M.Sc. students

- Vivi Dewi Mardiana Nusantara (to be completed 2022)
- Hannu-Pekka Raappana (2014) Geochemistry and mineralogy of the Juomasuo and Hangaslampi gold deposits. MSc Thesis University of Oulu

B.Sc. students

- Daniel Ben-Yehoshua (2014) Metamorphic textures in high-grade rocks from the Bamble Sector, South Norwa. BSc Thesis Freiburg University
- Camilla Perttula (2016) Mineral alteration in the Norra Kärr rare earth element deposit. BSc Thesis University of Oulu

Reviewer

Editorial

Neues Jahrbuch für Mineralogie (Journal of Mineralogy and Geochemistry) Chief editor
Surtsey Research Society

Reviews

AAPG Bulletin
American Mineralogist
Canadian Mineralogist
Clay Minerals
Energies
European Journal of Mineralogy
Geologica Belgica
Geological Magazine
Geology
Geothermics
Journal of Metamorphic Geology
Journal of South American Earth Sciences
Journal of Volcanology and Geothermal Research
Lithos
Mineralogical Magazine
Minerals

National Science Foundation
Periodico di Mineralogia

Professional Affiliation

Deutsche Mineralogische Gesellschaft (DMG)
Deutsche Geologische Gesellschaft - Geologische Vereinigung (DGGV)
Geoscience Society of Iceland
Geothermal Association of Iceland (GAI)
Mineralogical Society of America (MSA)

Computer Skills

Applications:	MS Office (Word, Excel, Powerpoint), Adobe (Photoshop, Illustrator), FileMakerPro, EndNote
Operating Systems:	Mac OS X, Windows
Geoscience applications:	Theriak/Domino, PTAX (TWQ), SUPCRT, PHREEQC, GSAS (basics), SpheriStat, Geochemist Workbench, WATCH, Leapfrog

Language Skills

German	Mother tongue
English	Fluently in reading, speaking, writing
Latin	Basic knowledge
Icelandic	Basic knowledge

Breiðdalsvík/Iceland, January 17th, 2022