

PROFESSOR THOMAS GERNON

PUBLICATION HIGHLIGHTS

As of 13 November 2024, I have 85 peer reviewed publications and a h index of 28. I have four papers under revision and a further three papers under review at leading disciplinary journals.

Gernon, T.M., Mills, B.J.W., Hincks, T.K., Merdith, A.S., Alcott, L.J., Rohling, E.J.R. & Palmer, M.R. *Solid Earth forcing of Mesozoic oceanic anoxic events*. **Nature Geoscience**, 17, 926–935, doi: [10.1038/s41561-024-01496-0](https://doi.org/10.1038/s41561-024-01496-0) (2024).

Gernon, T.M., Hincks, T.K., Brune, S., Braun, J., Jones, S.M., Keir, D., Cunningham, A. & Glerum, A., *Coevolution of craton margins and interiors during continental breakup*. **Nature**, 632, 327–335, doi: [10.1038/s41586-024-07717-1](https://doi.org/10.1038/s41586-024-07717-1) (2024).

Article attracted an in-depth news feature in Science: Richter, H., In sweeping geological theory, mantle waves lift up plateaus. **Science**, 588 (6709), 588–589, doi: [10.1126/science.z1mp7qn](https://doi.org/10.1126/science.z1mp7qn).

Russo, M., **Gernon, T.M.**[‡], Santaguida, A. & Hincks, T.K., 2024. *Improving Earth science communication and accessibility with data sonification*. **Nature Reviews Earth & Environment** 5, 1–3; doi: [10.1038/s43017-023](https://doi.org/10.1038/s43017-023). [‡]Corresponding author.

Gernon, T.M., Jones, S.M., Brune, S., Hincks, T.K., Palmer, M.R., Schumacher, J.C., Primiceri, R.M., Field, M., Griffin, W.L., O'Reilly, S.Y., Keir, D., Spencer, C.J., Merdith, A. & Glerum, A., 2023. *Rift-induced disruption of cratonic keels drives kimberlite volcanism*. **Nature** 620, 344–350, doi: [10.1038/s41586-023-06193-3](https://doi.org/10.1038/s41586-023-06193-3).

Article attracted an in-depth news feature in Science: Voosen, P., 2023. *Origin of diamond-bearing eruptions revealed*. **Science**, 381 (6656), 362–363, doi: [10.1126/science.adj9527](https://doi.org/10.1126/science.adj9527).

Spencer, C.J., Davies, N.S., **Gernon, T.M.**, Wang, X., McMahon, W.J., Morrell, T.R., Hincks, T.K., Puhfal, P.K., Brasier, A., Seraine, M., & Lu, G.M., 2022. *Composition of continental crust altered by the emergence of land plants*. **Nature Geoscience** 15 (9), 735–740, doi: [10.1038/s41561-022-00995-2](https://doi.org/10.1038/s41561-022-00995-2).

Associated Perspective: Greber, N., 2022. *Plant fingerprints in the deep Earth*. **Nature Geoscience** 15, p. 685–686; doi: [10.1038/s41561-022-01022-0](https://doi.org/10.1038/s41561-022-01022-0); Editorial, *Plants rooted in rocks*. **Nature Geoscience** 15, p. 683; doi: [10.1038/s41561-022-01030-0](https://doi.org/10.1038/s41561-022-01030-0), and Research Highlight: Grocholski, B., 2022. *Geochemistry: Deep-rooted change*, **Science**, 378 (6615), 37–38, doi: [10.1126/science.adf1655](https://doi.org/10.1126/science.adf1655).

Gernon, T.M., Barr, R., Fitton, J.G., Hincks, T.K., Longman, J., Merdith, A., Mitchell, R.N. & Palmer, M.R., 2022. *Mobilization of lithospheric mantle carbon during the Palaeocene-Eocene thermal maximum*. **Nature Geoscience** 15, 573–579, doi: [10.1038/s41561-022-00967-6](https://doi.org/10.1038/s41561-022-00967-6).

Associated in-depth news feature in Science: Voosen, P., 2022. *Hidden carbon layer may have sparked ancient bout of global warming*. **Science**, 377 (6601), 12–13, doi: [10.1126/science.add6369](https://doi.org/10.1126/science.add6369).

Longman, J., Mills, B.J.W., Manners, H.R., **Gernon, T.M.** & Palmer, M., 2021. *Late Ordovician climate change and extinctions driven by elevated volcanic nutrient supply*. **Nature Geoscience** 14, p. 924–929; doi: [10.1038/s41561-021-00855-5](https://doi.org/10.1038/s41561-021-00855-5).

Gernon, T.M., Hincks, T.K., Merdith, A., Rohling, E.J., Palmer, M.R., Foster, G.L., Bataille, C.P. & Müller, R.D., 2021. *Global chemical weathering dominated by continental arcs since the mid-Palaeozoic*. **Nature Geoscience** 14, p. 690–696; doi: [10.1038/s41561-021-00806-0](https://doi.org/10.1038/s41561-021-00806-0).

Mitchell, R.N.[‡], **Gernon, T.M.**[‡], Cox, G.M., Nordsvan, A.R., Kirscher, U., Xuan, C., Liu, Y., Liu, X. & He, X., 2021. *Orbital forcing of ice sheets during snowball Earth*. **Nature Communications** 12, 4187; doi: [10.1038/s41467-021-24439](https://doi.org/10.1038/s41467-021-24439). [‡]Contributed equally.

Gernon, T.M., 2020. *A sabbatical reboot*. **Science** 370 (6517), p. 738; doi: [10.1126/science.370.6517.738](https://doi.org/10.1126/science.370.6517.738).

Mazrouei, S., Ghent, R.R., Bottke, W.F., Parker, A.H. & **Gernon, T.M.**, 2019. *Earth and Moon impact flux increased at the end of the Paleozoic*, **Science** 363, p. 253–257; doi: [10.1126/science.aar4058](https://doi.org/10.1126/science.aar4058).

Associated Perspective: Koeberl, C., 2019. *When Earth got pummeled*. **Science** 363 (6424), p. 224–225; doi: [10.1126/science.aav8480](https://doi.org/10.1126/science.aav8480); and News Feature: Voosen, P., 2019. *Moon's craters reveal recent spike in outer space impacts on Earth*, **Science**, doi: [10.1126/science.aaw7085](https://doi.org/10.1126/science.aaw7085).

Keller, C.B., Husson, J.M., Mitchell, R.N., Bottke, W.F., **Gernon, T.M.**, Boehnke, P., Bell, E.A., Swanson-Hysell, N.L. & Peters, S.E., 2019. *Neoproterozoic glacial origin of the Great Unconformity*. **Proceedings of the National Academy of Sciences** 116 (4), p. 1136–1145; doi: [10.1073/pnas.1804350116](https://doi.org/10.1073/pnas.1804350116).

News and Views: Chakravorty, A. (2019), *Did global glaciation cause the Great Unconformity?* *Eos*, 100, doi: [10.1029/2019EO120289](https://doi.org/10.1029/2019EO120289).

Hincks, T.K., Aspinall, W., Cooke, R. & Gernon, T.M.[‡], 2018. *Oklahoma's induced seismicity strongly linked to wastewater injection depth*. *Science* 359, p. 1251–1255; doi: [10.1126/science.aap7911](https://doi.org/10.1126/science.aap7911). [‡]Corresponding author.

Gernon, T.M., Hincks, T.K., Tyrrell, T., Rohling, E.J. & Palmer, M.R., 2016. *Snowball Earth ocean chemistry driven by extensive ridge volcanism during Rodinia breakup*. *Nature Geoscience* 9, p. 242–248; doi: [10.1038/ngeo2632](https://doi.org/10.1038/ngeo2632).

Associated News & Views feature: Fairchild, I. J., 2016. *Ocean chemistry: Neoproterozoic glass-bleeding*. *Nature Geoscience* 9, p. 192–193; doi: [10.1038/ngeo2643](https://doi.org/10.1038/ngeo2643).

Blackford, J., Stahl, H., Bull, J., Berges, B., Cevatoglu, M., Lichtschlag, A., Connelly, D., James, R., Kita, J., Long, D., Naylor, M., Shitashima, K., Smith, D., Taylor, P., Wright, I., Akhurst, M., Chen, B., Gernon, T.M., Hauton, C., Hayashi, M., Kaieda, H., Leighton, T., Sato, T., Sayer, M., Suzumura, M., Tait, K., Vardy, M., White, P. & Widdicombe, S., 2014. *Detection and impacts of leakage from sub-seafloor carbon dioxide storage*. *Nature Climate Change*, 4, p. 1011–1016, doi: [10.1038/nclimate2381](https://doi.org/10.1038/nclimate2381).

Gernon, T.M., Brown, R.J., Tait, M.A. & Hincks, T.K., 2012. *The origin of pelletal lapilli in explosive kimberlite eruptions*. *Nature Communications*, 3 (832), p. 1–7, doi: [10.1038/ncomms1842](https://doi.org/10.1038/ncomms1842).

Gernon, T.M., Gilbertson, M.A., Sparks, R.S.J. & Field, M., 2008. *Gas-fluidisation in an experimental tapered bed: insights into processes in diverging volcanic conduits*. *Journal of Volcanology and Geothermal Research*, 174 (1–3), p. 49–56, doi: [10.1016/j.jvolgeores.2007.12.034](https://doi.org/10.1016/j.jvolgeores.2007.12.034).

Paper featured in *Nature* (2008), Research Highlights, 451, p. 502, doi: [10.1038/451502a](https://doi.org/10.1038/451502a).

PAPERS UNDER REVIEW OR REVISION

Watts, E.J., Rees, R., Gernon, T.M., Jonathan, P., Keir, D., Taylor, R.N., Sieburg, M., Chambers, E.L., Pagli, C., Cooper, M.J., Michalik, A., Milton, J.A., Hincks, T.K., Gebru, E.F., Ayele, A. & Abebe, B. *Afar triple junction fed by single asymmetric mantle upwelling*. *Nature Geoscience*, under revision (2024).

Merdith, A.S., Gernon, T.M., Maffre, P., Donnadiou, Y., Godd ris, Y., Longman, J., M ller, R.D. & Mills, B.J.W. *Phanerozoic icehouse climates as the result of multiple solid-Earth cooling mechanisms*. *Science Advances*, under revision (2024).

Gernon, T.M., Brune, S., Hincks, T.K., Palmer, M.R., Spencer, C.J., Watts, E.J. & Glerum, A. *Persistent enriched mantle generation through convective erosion of continental roots*. *Nature Geoscience*, under review (2024).

Spencer, C.J., Gernon, T.M. & Mitchell, R.N. *Greenlandic debris in Iceland tied to Bond 1 ice-rafting in the Dark Ages*. *Geology*, under review (2024).

Longman, J., Gernon, T.M., Hincks, T.K., Panitz, S. & Palmer, M.R. *Intensified global volcanism during Late Pleistocene glacial strength shift*. *Nature Communications*, under revision (2024).

Zhu, J., Zhang, Z., Gernon, T.M. and Deng, Y. *Latitudinal migration of continental arcs modulates long-term variations in Earth's climate state*. *Nature Geoscience*, under revision (2024).

FURTHER PUBLICATIONS

Rohling, E.J., Gernon, T.M., Heslop, D., Reichert, G.J., Roberts, A.P. & Yu, J. *Reconciling the apparent discrepancy between deep-sea temperatures from proxies and from benthic oxygen isotope deconvolution*. *Paleoceanography and Paleoclimatology*, 39, e2024PA004872, doi: [10.1029/2024PA004872](https://doi.org/10.1029/2024PA004872).

Longman, J., Manners, H.R., Gernon, T.M., McManus, J., Palmer, M.R., Rowland, S.J. & Sutton, P.A., 2024. *Production and preservation of organic carbon in sub-seafloor tephra layers*. *Marine Chemistry* 258, 104334, doi: [10.1016/j.marchem.2023.104334](https://doi.org/10.1016/j.marchem.2023.104334).

Gernon, T.M., Hincks, T.K., Tyrrell, T., Rohling, E.J. & Palmer, M.R., 2024. *Submarine volcanism along shallow ridges did not drive Cryogenian cap carbonate formation: COMMENT*. *Geology* 52 (8), e578, doi: [10.1130/G51884.1](https://doi.org/10.1130/G51884.1).

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- Siegburg, M., **Gernon, T.M.**, Keir, D., Bull, J.M., Taylor, R.N., Watts, E.J., Greenfield, T. & Gebru, E.F., 2023. *Temporal clustering of fissural eruption across multiple segments within the Ethiopian Rift*. *Frontiers in Earth Science* 11, 1169635, doi: [10.3389/feart.2023.1169635](https://doi.org/10.3389/feart.2023.1169635).
- Rees, R., **Gernon, T.M.**, Keir, D., Taylor, R.N. & Pagli, C., 2023. *The spatial and volcanic evolution of Ayelu, Abida and Yangudi volcanoes in the Northern Main Ethiopian Rift – Southern Afar, Ethiopia*. *Journal of Volcanology and Geothermal Research* 440, 107846, doi: [10.1016/j.jvolgeores.2023.107846](https://doi.org/10.1016/j.jvolgeores.2023.107846).
- Watts, E.J., **Gernon, T.M.**, Taylor, R.N., Keir, D. & Pagli, C., 2023. *Magmatic evolution during proto-oceanic rifting at Alu, Dalafilla and Borale Volcanoes (Afar) determined by trace element and Sr-Nd-Pb isotope geochemistry*. *Lithos* 456–457, 107311, doi: [10.1016/j.lithos.2023.107311](https://doi.org/10.1016/j.lithos.2023.107311).
- Rohling, E.J., Foster, G.L., **Gernon, T.M.**, Grant, K.M., Heslop, D., Hibbert, F.D., Roberts, A.P. & Yu, J., 2022. *Comparison and synthesis of sea level and deep-sea temperature variations over the past 40 million years*. *Reviews of Geophysics* 60, e2022RG000775, p. 1–56, doi: [10.1029/2022RG000775](https://doi.org/10.1029/2022RG000775).
- Mitchell, R.N., Brown, M., **Gernon, T.M.** & Spencer, C.J., 2022. *Evolving mantle convection from bottom-up to top-down*. *The Innovation* 3 (6), 100309; doi: [10.1016/j.xinn.2022.100309](https://doi.org/10.1016/j.xinn.2022.100309).
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- Longman, J., **Gernon, T.M.**, Palmer, M.R. & Manners, H.R., 2021. *Tephra deposition and bonding with reactive oxides enhances burial of organic carbon in the Bering Sea*. *Global Biogeochemical Cycles* 35 (11), e2021GB007140. doi: [10.1029/2021GB007140](https://doi.org/10.1029/2021GB007140).
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- Taylor, R.N., Davilla-Harris, P., Branney, M., Farley, E.M.R., **Gernon, T.M.** & Palmer, M.R., 2020. *Dynamics of a chemically pulsing mantle plume*. *Earth and Planetary Science Letters* 537, 116182; doi: [10.1016/j.epsl.2020.116182](https://doi.org/10.1016/j.epsl.2020.116182).

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- Hicks, S., Verdon, J., Baptie, B., Lockett, R., Mildon, Z., **Gernon, T.M.**, 2019. *A shallow earthquake swarm close to hydrocarbon activities: discriminating between natural and induced causes for the 2018–19 Surrey, UK earthquake sequence*. **Seismological Research Letters** 90 (6), p. 2095–2110; doi: [10.1785/0220190125](https://doi.org/10.1785/0220190125).
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CONFERENCE PAPERS

As of 13 November 2024, my science has been presented at 120 conference presentations in total, with 35 of these contributions as lead author; this represents a total of around 70 different conferences and meetings.

Gernon, T.M., Hincks, T.K., Brune, S., Braun, J., Jones, S.M., Keir, D., Cunningham, A., & Glerum, A., 2025. *Mantle waves and the destabilization of cratons*. Invited speaker, forthcoming EGU conference (tectonics and surface processes session), April 2025.

Gernon, T.M., Hincks, T.K., Brune, S., Braun, J., Jones, S.M., Keir, D., Cunningham, A., & Glerum, A., 2024. *Coevolution of craton margins and interiors during continental breakup*. AGU Fall Meeting Abstracts (Invited Speaker, Cratons Session in Forthcoming Conference in Washington DC, December 2024).

Gernon, T.M., 2024. *Planetary design flaws and slow self-stabilising feedbacks*. Chance and Purpose in the Evolution of Biospheres, Royal Society Discussion meeting, Nov 2024.

Stockey, R.G., Mills, B.J., Saupe, E.E., Monarrez, P., Gruszka, P., Pohl, A., Monteiro, F., Xie, Y., Vervoort, P., Inglis, G., **Gernon, T.M.**, Hülse, D., Ridgewell, A. & Lunt, D. *Phanerozoic ocean biogeochemistry and marine biodiversity in space and time*. Life and Planet Meeting—The annual meeting of the Earth System Science Group of the Geological Society of London, July 2024.

Longman, J., **Gernon, T.M.**, Hincks, T., Panitz, S. & Palmer, M., 2024. *A million-year reconstruction of global volcanism intensity: How does it link to glaciation?* European Geophysical Union, EGU24-17827.

Wheen, L., **Gernon, T.M.**, Hall, C., Wright, J. & Benjamin, O., 2024. *The largely linear response of Earth's ice volume to orbital forcing*. European Geophysical Union, EGU24-64.

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Rawlings, J., **Gernon, T.M.**, Humphreys-Williams, E., Stock, M. & Palmer, M.R., 2024. *Constraining ascent velocities of diamond bearing kimberlite magmas using diffusion chronometry*. Volcanic and Magmatic Studies Group (VMSG) Meeting, Jan 2024.

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- Tomsett, C., Leyland, J., Darby, S., **Gernon, T.M.**, Hincks, T., 2023. *Investigating Patterns in the Vertical Mixing of Suspended Sediment in Big Rivers Globally*. In AGU Fall Meeting Abstracts (Vol. 2023, EP41D-2347).
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- Watts, E.J., **Gernon, T.M.**, Taylor, R., Keir, D., Siegburg, M., Jarman, J., Pagli, C. & Gioncada, A., 2023. *A window into the inner workings of proto-oceanic rift volcanoes: An Afar case study*. IAVCEI 2023 Scientific Assembly, Contribution number 688, Rotorua, New Zealand.
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- Watts, E.J., **Gernon, T.M.**, Keir, D., Taylor, R. & Pagli, C., 2021. *Geochemical Evidence of Varying Melt Production at the Erta Ale Volcanic Segment*. In AGU Fall Meeting Abstracts (Vol. 2021, pp. T43D-06).
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- Gernon, T.M.**, Hincks, T.K., Aspinall, W. & Cooke, R., 2021. *Machine learning of seismicity induced by hydraulic fracturing*. Invited keynote speaker, 3rd Institute of Mathematics and OR Society Conference on Mathematics of Operational Research (virtual).
- Gernon, T.M.**, 2021. *The role of volcanism in shaping Neoproterozoic snowball Earth*. Invited keynote speaker, Volcanic and Magmatic Studies Group Meeting, Geological Society of London (virtual assembly).
- Watts, E.J., **Gernon, T.M.**, Taylor, R.N., Keir, D., Siegburg, M., Jarmin, J., Pagli, C. & Gioncada, A., 2021. *Evolution of the Alu-Dalafilla and Borale Volcanoes, Afar*. EGU General Assembly (virtual assembly) (EGU21-7898), <https://doi.org/10.5194/egusphere-egu21-7898>.

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- Illsley-Kemp, F., Bull, J., Keir, D., Gerya, T., Pagli, C., **Gernon, T.M.**, Ayele, A., Goitom, B., Hammond, J.O.S. & Kendall, J.M., 2017. *Formation of an oceanic transform fault prior to seafloor spreading*. Abstract T53B-03 presented at 2017 Fall Meeting, AGU, New Orleans, LA, 11-15 Dec.
- Bottke, W., Mazrouei, S., Ghent, R., Parker, A. & **Gernon, T.M.**, 2017. *What really happened to Earth's older craters?* 49th Annual Division for Planetary Sciences Meeting (American Astronomical Society), Provo, Utah.
- Gernon, T.M.**, Hincks, T.K., Tyrrell, T., Rohling, E.J. & Palmer, M.R., 2017. *'Snowball Earth' ocean chemistry driven by weathering of a shallow ridge system during Rodinia breakup*. **Invited keynote speaker**, Goldschmidt, Paris.
- Taylor, R.N., Farley, E.M.R., Davilla-Harris, P., Branney, M. & **Gernon, T.M.**, 2017. *Pulsing evolution of a hotspot: constraining the scale of mantle heterogeneities*. Goldschmidt, Paris, 2017.
- Manners, H.R., Palmer, M.R., **Gernon, T.M.**, Sutton, P.A., Rowland, S.J. & McManus, J., 2017. *Selective preservation of organic matter in tephra layers*. International Meeting on Organic Geochemistry, Florence, Italy.
- Siegburg, M., **Gernon, T.M.**, Bull, J., Keir, D., Taylor, R., Nixon, C., Abebe, B. & Ayele, A., 2017. *Morphometric and magmatic evolution at the Boset-Bericha Volcanic Complex in the Main Ethiopian Rift*. European Geophysical Union, Vienna.
- Farley, E.M.R., Taylor, R.N. & **Gernon, T.M.**, 2017. *A single eruption "snapshot" through a complete magma reservoir*. Joint assembly of TSG-VMSG-BGA, Liverpool.

- Siegburg, M., **Gernon, T.M.**, Bull, J., Keir, D. & Nixon, C., 2017. *Magmatic and morphometric evolution of Boset-Bericha Volcanic Complex in the Main Ethiopian Rift*. Joint assembly of TSG-VMSG-BGA, Liverpool.
- Illsley-Kemp, F, Bull, J., Keir, D., Gerya, T., Pagli, C., **Gernon, T.M.**, Ayele, A., Goitom, B., Hammond, J.O.S. & Kendall, J.M., 2017. *Formation of an oceanic transform fault during continental rifting*. Joint assembly of the Tectonic Studies Group (TSG), Volcanic and Magmatic Studies Group (VMSG) and British Geophysical Association (BGA), Liverpool.
- Dix, J.K., Hughes, T.J., Emeana, C.J., Pilgrim, J.A., Henstock, T.J., **Gernon, T.M.**, Thompson, C.E.L., Vardy, M.E., 2017. *Substrate Controls on the Life-Time Performance of Marine HV Cables*. 8th International Conference on Offshore Site Investigation Geotechnics, 88 (107), p. 88–107, doi: 10.3723/OSIG17.088.
- Gernon, T.M.**, Hincks, T.K., Tyrrell, T., Rohling, E.J. & Palmer, M.R., 2016. *'Snowball Earth' ocean chemistry driven by extensive ridge volcanism during Rodinia breakup*. **Invited keynote speaker**, Sprigg Symposium, Australian Earth Science Convention (AESC), Adelaide.
- Hatter, S.J., Palmer, M.R., Taylor, R.N. & **Gernon, T.M.**, 2016. *Geochemical evolution of Montserrat and Guadeloupe (Lesser Antilles Arc): investigating the role of subducting oceanic basement ridges*. Volcanic and Magmatic Studies Group Meeting, Trinity College Dublin.
- Emeana, J., Dix, J., **Gernon, T.M.**, Thompson, C.E., Henstock, T., & Pilgrim, J., 2015. *Physical modelling of the effects of sediment thermal regimes on subsea HV cable performance*. AGU Fall Meeting, San Francisco.
- Illsley-Kemp, F, Keir, D., Bull, J., Ayele, A., Hammond, J., Kendall, J.M., Gallacher, R., **Gernon, T.M.** & Goitom, B., 2015. *Magmatic plumbing at an incipient oceanic spreading centre: Evidence from local earthquake data in Northern Afar*. AGU Fall Meeting, San Francisco.
- Gernon, T.M.**, Hincks, T.K., Tyrrell, T., Rohling, E.J. & Palmer, M.R., 2015. *'Snowball Earth' ocean chemistry driven by explosive unzipping of Rodinia*. Earth's Uninterrupted Habitability, Geological Society of London.
- Cevatoglu, M., Bull, J.M., Vardy, M.E., Wright, I.C. & **Gernon, T.M.**, 2015. *First controlled sub-seabed CO₂ release experiment: qualitative and quantitative analysis of high-resolution seismic reflection data*. IEAGHG The Risk Management and Environmental Research Meeting, Southampton.
- Manners, H.R., Palmer, M.R., **Gernon, T.M.**, Sutton, P.A., Rowland, S.J. & McManus, J., 2015. *The Role of Marine Diagenesis of Tephra in the Carbon Cycle*. International Meeting on Organic Geochemistry, Prague, Czech Republic.
- Siegburg, M., **Gernon, T.M.**, Bull, J.M., Keir, D.K., Nixon, C.W., Taylor, R.N. & Abebe, B., 2015. *Tectono-magmatic interaction at the Boset Volcanic Complex in the Main Ethiopian Rift*. British Geophysical Association, Postgraduate Research in Progress Meeting, Southampton.
- Illsley-Kemp, F, Keir, D., Bull, J., Ayele, A., Hammond, J., Kendall, J.M., Gallacher, R., **Gernon, T.M.**, & Goitom, B., in prep. *Seismicity of an incipient oceanic spreading centre in Northern Afar*. British Geophysical Association, Postgraduate Research in Progress Meeting, Southampton.
- Emeana, J., Dix, J., Henstock, T., **Gernon, T.M.**, Thompson, C.E. & Pilgrim, J., 2015. *The thermal regime around buried submarine high voltage cables*. British Geophysical Association, Postgraduate Research in Progress Meeting, Southampton.
- Hughes, T.J., Henstock, T.J., Dix, J.K., Pilgrim, J.A., **Gernon, T.M.** & Thompson, C.E.L., 2015. *Influence of sediment permeability on typical temperature response times of submarine high voltage cables*. British Geophysical Association, Postgraduate Research in Progress Meeting, Southampton.
- Hatter, S.J., Palmer, M.R. & **Gernon, T.M.**, 2015. *Discovery of a 2.5Ma, VEI-5 Plinian eruption on Guadeloupe*. Goldschmidt Conference, Prague, Czech Republic (best student poster prize).
- Hatter, S.J., Palmer, M.R., **Gernon, T.M.** & Taylor, R.N., 2015. *Marine sediments as an archive of arc volcanic history: Montserrat and Guadeloupe, Lesser Antilles*. IUGG General Assembly, Prague, Czech Republic.
- Palmer, M.R., Manners, H.R., **Gernon, T.M.**, Sutton, P.A. & Rowland, S.J., 2015. *Selective preservation of amides in marine tephra layers*. Goldschmidt Conference, Prague, Czech Republic.

- Hughes, T.J., Henstock, T.J., Dix, J.K., Pilgrim, J.A., **Gernon, T.M.** & Thompson, C.E.L., 2015. *Thermal ratings of submarine HV cables informed by environmental considerations*. Jicable–9th International Conference on Insulated Power Cables, Versailles, France.
- Illsley-Kemp, F., Keir, D., Bull, J., **Gernon, T.M.**, Hammond, J., Kendall, J.M., Goitom, B., & Ayele, A., 2015. *Magmatic plumbing at an incipient oceanic spreading centre: Evidence from local earthquake data in Northern Afar*. History of Seismology Meeting: From Hooke to Helioseismology, University of Leicester.
- Gernon, T.M.**, Keir, D., Bull, J. & Taylor, R.N., 2015. *Development of the Boset-Bericha volcanic complex, northern Main Ethiopian Rift*. Volcanic and Magmatic Studies Group Meeting, Norwich, UK.
- Taylor, R.N., **Gernon, T.M.**, Stock, M.J. & Brown, R.J., 2015. *The mixing, evolution and eruption history of a disaggregated magma reservoir*. Volcanic and Magmatic Studies Group Meeting, Norwich, UK.
- Hatter, S.J., Palmer, M.R., **Gernon, T.M.** & Taylor, R.N., 2015. *Marine sediments as an archive of arc volcanic history, Montserrat*. Volcanic and Magmatic Studies Group Meeting, Norwich, UK.
- Coussens, M., Talling, P., Watt, S., Cassidy, M., Wall-Palmer, D., **Gernon, T.M.** & Palmer, M.R., 2015. *Investigating the long-term evolution of an island-arc volcano*. Volcanic and Magmatic Studies Group Meeting, Norwich, UK.
- Coussens, M., Talling, P., Watt, S., Cassidy, M., Wall-Palmer, D., Jutzeler, M., **Gernon, T.M.** & Palmer, M.R., 2015. *Investigating the long-term evolution of an island-arc volcano*. Martinique volcanology conference.
- Gernon, T.M.**, 2014. *Diamond eruptions*. **Invited keynote speaker**, Mineral Deposits Studies Group Meeting, Southampton, UK. (**Gernon, T.M.**, 2014. *Diamond eruptions*, Applied Earth Science (Trans. Inst. Min. Metall. B), 124(1), p. 35–36).
- Elliott, H.A., **Gernon, T.M.**, Roberts, S., Hewson, C. & Boyce, A., 2014. *Diatreme volcanism and Pb-Zn mineralisation in the Limerick district of the Irish orefield*. Mineral Deposits Studies Group Meeting, Southampton, UK. (Elliott, H.A., **Gernon, T.M.**, Roberts, S., Hewson, C. & Boyce, A., 2015. *Diatreme volcanism and Pb-Zn mineralisation in the Limerick district of the Irish orefield*, Applied Earth Science (Trans. Inst. Min. Metall. B), 124(1), p. 32–33). Rio Tinto Prize for best talk.
- Gernon, T.M.**, 2014. *Volcanic venting and the eruption of alkaline igneous rocks*. Geophysical Research Abstracts, Vol. 16, EGU General Assembly, Abstract EGU2014-3003.
- Gernon, T.M.** & Gilbertson, M.A., 2014. *Segregation of particles in a tapered fluidized bed with implications for pyroclastic volcanism*. Geophysical Research Abstracts, Vol. 16, EGU General Assembly, Abstract EGU2014-10505.
- Hughes, T.J., Henstock, T.J., Dix, J.K., Pilgrim, J.A. & **Gernon, T.M.**, 2014. *Heat Transfer in HV Cable Systems Under the Seafloor*. 7th UHVnet (Universities High Voltage Network) Colloquium.
- Emeana, C.J., Dix, J.K., Henstock, T.J., **Gernon, T.M.**, Pilgrim, J.A. & Thompson, C.E.L., 2014. *Sediment thermal properties and the implication for the performance of sub-seabed HV cables*. 7th UHVnet (Universities High Voltage Network) Colloquium.
- Coussens, M., Talling, P., Watt, S., **Gernon, T.M.** & Palmer, M., 2014. *Investigating the long term evolution of an island arc volcano*. Volcanic and Magmatic Studies Group Meeting, Edinburgh, UK.
- Elliott, H.A.L., **Gernon, T.M.**, Roberts, S., & P.B. Redmond, 2013. *Facilitation of Pb-Zn mineralisation by diatremes in the Irish Orefield?* Eos Trans. AGU, Fall Suppl., Abstract V41D-2833.
- Cevatoglu, M., Bull, J.M., Vardy, M.E., Wright, I.C. & **Gernon, T.M.**, 2013. *First controlled sub-seabed CO₂ release experiment: Insights into gas migration pathways and impacts on sediment physical properties*. Eos Trans. AGU, Fall Suppl., Abstract OS11E-05.
- Cevatoglu, M., Bull, J.M., Vardy, M.E., Wright, I.C. & **Gernon, T.M.**, 2013. *First controlled sub-seabed CO₂ release experiment: Insights into gas migration pathways and impacts on sediment physical properties*. British Geophysical Association, Postgraduate Research in Progress Meeting, Cambridge.
- Hughes, T.J., Henstock, T.J., Pilgrim, J.A., Dix, J.K., **Gernon, T.M.**, 2013. *Environmental Controls on the State of HV cables under the seafloor*. HubNet Smartgrids Symposium, Cardiff.

- Palmer, M.R., **Gernon, T.M.** & SHIPBOARD SCIENTISTS OF IODP LEG 340, 2013. *The role of tephra diagenesis in the carbon cycle*. Goldschmidt 2013 Conference Abstracts, Mineralogical Magazine 77 (5), p. 1915, doi: 10.1180/minmag.2013.077.5.16.
- Johnson, P., Inglis, E., Marchant, I., Cassidy, M., Palmer, M.R., Talling, P.J., **Gernon, T.M.**, Watt, S. & SHIPBOARD SCIENTISTS OF IODP LEG 340, 2013. *Marine sediments as an archive of the evolution of volcanism on Montserrat*. Goldschmidt 2013 Conference Abstracts, Mineralogical Magazine 77 (5), p. 1400, doi: 10.1180/minmag.2013.077.5.10.
- Gernon, T.M.**, Wood, M., Brown, R.J., Medlin, C., Tait, M. & Hincks, T.K., 2013. *Pyroclastic granulation in explosive volcanic eruptions*. Volcanic and Magmatic Studies Group Meeting, Bristol, UK.
- Stock, M.J., Taylor, R.N. & **Gernon, T.M.**, 2013. *Triggering of major volcanic eruptions recorded by actively forming cumulates on Tenerife*. Volcanic and Magmatic Studies Group Meeting, Bristol, UK.
- Elliott, H.A., **Gernon, T.M.**, Roberts, S. & Redmond, P., 2013. *Diatreme volcanism facilitating Pb-Zn mineralisation in the Irish Orefield?* Volcanic and Magmatic Studies Group Meeting, Bristol, UK (awarded the VMSG Bob Hunter prize for best oral presentation).
- Brooker, R.A., Ogilvie-Harris, R.C., **Gernon, T.M.**, Sparks, R.S.J. & Field, M., 2013. *The Snap Lake kimberlite; a true composite intrusion*. Volcanic and Magmatic Studies Group Meeting, Bristol, UK.
- Gernon, T.M.**, Brown, R.J., Tait, M. & Hincks, T.K., 2012. *The origin of pelletal lapilli in explosive kimberlite eruptions*. 10th International Kimberlite Conference, Bangalore, India, 10IKC-A-00372.
- Sparks, R.S.J., Brown, R.J., Field, M., **Gernon, T.M.** & Kavanagh J., 2012. *Dynamics of kimberlite magma ascent, intrusion and eruption*. 10th International Kimberlite Conference, Bangalore, India, 10IKC-A-00368.
- Gernon, T.M.**, Field, M., Sparks, R.S.J. & Ogilvie-Harris, R.C., 2012. *Emplacement of the Snap Lake kimberlite intrusion, NW Territories, Arctic Canada*. 10th International Kimberlite Conference, Bangalore, India, 10IKC-A-00278.
- Stock, M.J., Taylor, R.N. & **Gernon, T.M.**, 2012. *Major Plinian eruptions on Tenerife: An insight into driving mechanisms from cumulate nodules*. Volcanic and Magmatic Studies Group Meeting, Durham, UK.
- Elliott, H.A., **Gernon, T.M.**, Roberts, S. & Redmond, P., 2012. *Pb-Zn mineralization within the Limerick Basin (SW Ireland): A role for volcanism?* Mineral Deposits Studies Group Meeting, Cardiff, UK.
- Gernon, T.M.**, 2011. *Kimberlite volcanology*. **Invited keynote speaker**, International Diamond School, University of Padua, Bressanone-Brixen, Italian Alps.
- Gernon, T.M.**, Field, M., Sparks, R.S.J. & Ogilvie-Harris, R.C., 2010. *Emplacement of crystal-rich magmas: insights from the Snap Lake kimberlite intrusion (NW Territories, Canada)*. Geophysical Research Abstracts, Vol. 12, EGU General Assembly, Abstract EGU2010-12326.
- Gernon, T.M.** & Hincks, T.K., 2010. *Depositional processes of the basaltic Elie Ness diatreme, East Fife, Scotland*. Geophysical Research Abstracts, Vol. 12, EGU General Assembly, Abstract EGU2010-11710.
- Gernon, T.M.**, Field, M., Sparks, R.S.J. & Ogilvie-Harris, R.C., 2010. *Emplacement of crystal-rich magmas: insights from the Snap Lake kimberlite intrusion (NW Territories, Canada)*. British Geophysical Association meeting, "Magma emplacement and storage in the Earth's crust", New Advances in Geophysics, Geological Society of London.
- Gernon, T.M.**, Gilbertson, M.A. & Sparks, R.S.J., 2010. *Particle segregation in tapered fluidized beds*. 13th International Conference on Fluidization - New Paradigm in Fluidization Engineering, Gyeong-ju, Korea.
- Fontana, G. P., MacNiocaill, C., Brown, R.J., Sparks, R.S.J., Field, M. & **Gernon, T.M.**, 2009. *Palaeomagnetic emplacement temperature determinations of pyroclastic and volcanoclastic deposits in southern African kimberlite pipes*. Eos Trans. AGU, 90(52), Fall Meet. Suppl., Abstract V22B-2068.
- Gernon, T.M.**, Sparks, R.S.J., Field, M. & Ogilvie-Harris, R.C., 2009. *Geological constraints on the emplacement of the Snap Lake kimberlite dyke, NW Territories, Arctic Canada*. Eos Trans. AGU, 90(22), Jt. Assem. Suppl., Abstract V33D-02.

- Ogilvie-Harris, R., Sparks, R.S.J., Field, M. & **Gernon, T.M.**, 2009. *The Geochemistry of the Snap Lake kimberlite dyke, NW Territories, Canada: Phlogopite and Spinel*. Eos Trans. AGU, 90(22), Jt. Assem. Suppl., Abstract V33D-01.
- Fontana, G. P., MacNiocaill, C., Brown, R.J., Sparks, R.S.J., Field, M. & **Gernon, T.M.**, 2009. *Emplacement temperatures of pyroclastic and volcanoclastic deposits in kimberlite pipes in southern Africa: New constraints from palaeomagnetic measurements*. Eos Trans. AGU, 90(22), Jt. Assem. Suppl., Abstract V31F-07.
- Gernon, T.M.**, Field, M. & Sparks, R.S.J., 2009. *Geological constraints on the emplacement of the Snap Lake kimberlite dyke, NW Territories, Arctic Canada*. Irish Geological Research Meeting, Dublin, Ireland.
- Fontana, G., **Gernon, T.M.**, Mac Niocaill, C., Brown, R.J., Sparks, R.S.J. & Field, M., 2009. *Identification of kimberlite pyroclastic flow deposits using thermal remnant magnetism*. 43rd Volcanic and Magmatic Studies Group Meeting, Bournemouth, UK.
- Gernon, T.M.**, Sparks, R.S.J., Field, M. & Gilbertson, M.A., 2008. *The role of gas-fluidisation in the formation of massive volcanoclastic kimberlite*. 9th International Kimberlite Conference, Frankfurt, Germany, 9IKC-A-00175.
- Tait, M.A., Brown, R.J., **Gernon, T.M.** & Medlin, C.C., 2008. *Internal Architecture of a Large Kimberlitic Fissure Volcano: The Cambrian Venetia K01 Kimberlite Pipe, Limpopo, RSA*. 9th IAVCEI (International Association of Volcanology and Chemistry of the Earth's Interior) General Assembly, Reykjavik, Iceland.
- Gernon, T.M.**, Field, M., Sparks, R.S.J., Brown, R.J., Fontana, G. & Mac Niocaill, C., 2008. *Pyroclastic flow deposits from a kimberlite eruption: Orapa South Pipe, Republic of Botswana*. 9th International Kimberlite Conference, Frankfurt, Germany, 9IKC-A-00177.
- Field, M., **Gernon, T.M.**, Walters, A., Mogg, T. & Sparks, R.S.J., 2008. *Olivine grain size variations in the Snap Lake kimberlite sheet, Canada: Implications for kimberlite melt behaviour and diamond size distributions*. 9th International Kimberlite Conference, Frankfurt, Germany, 9IKC-A-00287.
- Gernon, T.M.**, Sparks, R.S.J., Gilbertson, M.A. & Field, M., 2008. *Fluidisation in flared containers with applications to kimberlite geology*. 42nd Volcanic and Magmatic Studies Group Meeting, Dublin, Ireland.
- Gernon, T.M.**, Gilbertson, M.A., Sparks, R.S.J. & Field, M., 2007. *Experimental constraints on the role of fluidisation in kimberlite emplacement*. IUGG (International Union of Geodesy and Geophysics) XXIV, Perugia, Italy.
- Gernon, T.M.**, Gilbertson, M.A., Sparks, R.S.J. & Field, M., 2007. *Tapered Fluidized Beds and the Role of Fluidization in Mineral Emplacement*. 12th International Conference on Fluidization - New Horizons in Fluidization Engineering, Vancouver, Canada.
- Brown, R.J., **Gernon, T.M.** & Tshutlhedhi, J., 2006. *Insights into the eruption of the Jwaneng Centre Lobe kimberlite pipe*. 8th International Kimberlite Conference (IAVCEI), Emplacement Workshop, Saskatoon, Canada.
- Gernon, T.M.**, Gilbertson, M.A., Sparks, R.S.J., Walters, A. & Field, M., 2006. *Gas-solid fluidisation in an experimental tapered bed: insights into processes in diverging volcanic conduits*. 8th International Kimberlite Conference (IAVCEI), Emplacement Workshop, Saskatoon, Canada.
- Gernon, T.M.**, Sparks, R.S.J., Brown, R.J. & Field, M., 2006. *Gas-segregation pipes in kimberlite: evidence for fluidisation at Orapa South Pipe, Botswana*. 8th International Kimberlite Conference (IAVCEI), Emplacement Workshop, Saskatoon, Canada.
- Gernon, T.M.**, Gilbertson, M.A., Sparks, R.S.J., Walters, A. & Field, M., 2006. *Fluidization and its potential role in the emplacement of kimberlite pipe-fills*. Volcanic and Magmatic Studies Group Meeting, Leeds, UK.
- Sparks, R.S.J., Brown, R.J., Field, M. & **Gernon, T.M.** et al., 2006. *Dynamical constraints on kimberlite volcanism*. 8th International Kimberlite Conference (IAVCEI), Emplacement Workshop, Saskatoon, Canada.
- Gernon, T.M.**, 2004. *An assessment of palaeo-depth indicators in the Lough Nafoeey Group Volcanics, Kilbride Peninsula, Co. Mayo*. Irish Geological Research Meeting, Galway, Ireland.
