

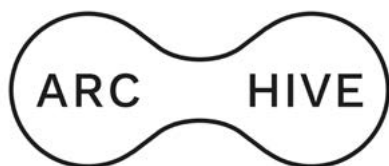


Field\_Notes - Traces  
A (paleo)-ethology of tracing

---

## Workshop bibliography

---



Co-funded by the  
Creative Europe Programme  
of the European Union



- Agnarsson, I. & Kuntner, M., (2007), "Taxonomy in a Changing World: Seeking Solutions for a Science in Crisis", *Systematic Biology* Vol. 56 (3): 531-539
- Bar-On, Y. M., Phillips, R., & Milo, R., (2018), "The biomass distribution on Earth", *Proceedings of the National Academy of Sciences of the United States of America*, 115 (25) 6506-6511
- Bauer, S., Schlünder M. and Rentetzi M., (Eds) (2020), "Boxes - A Field Guide", Manchester: Mattering Press
- Beloff, L., Berger, E. and Haapoja, T. (Eds) (2013), "From Landscape to Laboratory", Helsinki: The Finnish Society of Bioart
- Benitez, L. and Berger, E., (Eds) (2021), "Arts in the Time of Pandemic", *Artnodes* No.27, Barcelona: Universitat Oberta de Catalunya
- Benjaminsen, T. A., Reinert, H., Sjaastad, E., Sara, M. N., (2015), "Misreading the Arctic landscape: A political ecology of reindeer, carrying capacities, and overstocking in Finnmark, Norway", *Norsk Geografisk Tidsskrift - Norwegian Journal of Geography*, Vol.69 (4)
- Berger, E., et al, (2020), "Radical witnessing and the scope of the real", *Art as we don't know it*, (Eds: Berger, E., Mäki-Reinikka, K. and O'Reilly, K.) Helsinki: Aalto Arts Books
- Berger, E., Chardonnet, E., Dolinek, T. and Veber, U., (Eds), (2021), "Rewilding Culture", Ljubljana, Zavod Projekt Atol
- Berger, E., O'Reilly, K., Sederholm, H., Mäki Reinikka, K. (Eds) (2020), "Art as we Don't Know It", Helsinki: Aalto Arts Books
- Berquist, S., Spence-Morrow, G., Gonzalez-Macqueen, F., Rizzuto, B., Yépez Álvarez, W., Bautista, S., Jennings, J., (2018), "A new aerial photogrammetric survey method for recording inaccessible rock art" *Elsevier, Digital Applications in Archaeology and Cultural Heritage*, Vol. 8: 46-56
- Bjornerud, Marcia, (2018), "Timefulness", Princeton: Princeton university Press
- Bottjer, D.J., Hagadorn, J.W. and Dornbos, S.Q., (2000), "The Cambrian substrate revolution", *GSA today*, Vol. 10: 1-7
- Bratton, Benjamin, (2016), "On Speculative Design", Accessed October 23, 2019. <http://dismagazine.com/discussion/81971/on-speculative-design-benjamin-h-bratton/>
- Buatois, L. A., (2018), "Treptichnus Pedum and the Ediacaran–Cambrian Boundary: significance and caveats", *Geological Magazine*, 155: 174-180
- Budd, Graham, E., (2013), "At the origin of animals: the revolutionary Cambrian fossil record", *Current Genomics*, Vol. 14
- Bueno, C. C., (2016), "The Attention Economy: labour, time and power in cognitive capitalism", Maryland: Rowman & Littlefield
- Çengel, Y. A., (2021), "On Entropy, Information, and Conservation of Information", *Basel: Entropy*, Vol. 23
- Chakrabarty, D., (2002), "Museums in late democracies", *Humanities Research*, Vol. 9: 5-12

- Colman, Dr., Poudel S., Stamps, B. W., Boyd, E. S., and Spear, J. R., (2017), "The deep, hot biosphere: Twenty-five years of retrospection", *Proceedings of the National Academy of Sciences of the United States of America*, Vol. 114
- Crutzen, Paul and Stoermer, Eugene, (2000), "The 'Anthropocene'", *IGBP Newsletter* 41: 17–18. Accessed October 23, 2019. <http://www.igbp.net/download/18.316f18321323470177580001401/1376383088452/NL41.pdf>
- Demos, T. J., (2017), "Against the Anthropocene", Berlin-New York: Sternberg Press
- De Tienne A., (2015), "The flow of time and the flow of signs: A basis for Peirce's cosmo-semiotics", *American Journal of Semiotics*, Vol. 31
- Eaton, M., et al, (2003), "Fakta ja fiktio luonnon esteettisessä ymmärtämisessä", *Metsään mieleni*, (Eds: Sepänmaa, Y., Heikkilä-Palo, L., Kaukio, V.), Helsinki: Maahenki
- Fox Douglas, (2016), "What sparked the Cambrian explosion?", *Nature*, Vol. 530
- Føyn, S., (1967), "Dividal-gruppen ("Hyolithus-sonen") i Finnmark og dens forhold til de Eokambriske-Kambriske formasjoner", *Norges Geologiske Undersøgelse*, 249: 1-84
- Galton, Antony and Mizoguchi, Riichiro, (2009), "The Water Falls but the Waterfall does not Fall: New perspectives on Objects, Processes and Events", *Applied Ontology*, Vol 4 (2): 71 - 107
- Geological Unit Report, (2018), Geological Survey of Finland, GTK
- Gould, S. J., (1989), "Wonderful life: the Burgess Shale and the nature of history", New York: WW Norton & Company.
- Gutiérrez-Marco, J. C. & García-Bellido, D. C., (2018), "The international fossil trade from the Paleozoic of the Anti-Atlas, Morocco", *Geological Society, London: Special Publications*, Vol. 485, SP485.1.
- Haraway, Donna, (2015), "Anthropocene, Capitalocene, Plantationocene, Chthulucene: Making Kin, *Environmental Humanities*", vol. 6, 2015: 159-165. Accessed October 23, 2019. <http://environmentalhumanities.org/arch/vol6/6.7.pdf>
- Haug, C. et al., (2020), "Comment on the letter of the Society of Vertebrate Paleontology (SVP) dated April 21, 2020 regarding Fossils from conflict zones and reproducibility of fossil-based scientific data": the importance of private collections", *PalZ*, Vol. 94, 413-429
- Hausen, H., (1941), "Das Halditjokkomassiv" *Geologische Rundschau*, Vol. 32: 508-534
- Hausen, H., (1942), "Der Abschnitt Finnlands der kaledonischen Überschiebungszone", *Commentationes physico-mathematicae / Societas Scientiarum Fennica*, Vol. 11: 1-117
- Hazen R. M., Grew E. S., Origlieri M. J. and Downs R. T., (2017), "On the mineralogy of the 'Anthropocene Epoch'", *American Mineralogist*, Vol. 102
- Herringshaw Liam G., Callow, Richard H. T. and McIlroy, Duncan, (2017), "Engineering the Cambrian explosion: the earliest bioturbators as ecosystem engineers", *Geological Society, London: Special Publications*, Vol. 448: 369-382
- Hirvas, H., (1968), "Haltin alueen kvartäärisestä kehityksestä", University of Helsinki,

Department of Geology

Horn, Eva, (2014), "Zukunft als Katastrophe", Frankfurt am Main: S. Fischer

Hutton, James, (1785), "Theory of the Earth", Transactions of the Royal Society of Edinburgh, Vol. 1 Edinburgh, 1788

Ialenti, Vincent, (2020), "Deep Time Reckoning", Massachusetts: The MIT Press

Ingold, T., (2002), "The perception of the environment: essays on livelihood, dwelling and skill", London: Routledge

Ingold, T., (2006), "Up, across and along", Place and Location: Studies in Environmental Aesthetics and Semiotics, Vol. 5; 21-36

International Commission on Stratigraphy. "Global chronostratigraphical correlation table for the last 2.7million years, 2016." Accessed October 23, 2019. <http://www.stratigraphy.org/upload/QuaternaryChart1.JPG>.

Hokkanen, K., (1998), "Kilpisjärven-Porojärven alueen sedimenttikivitutkimukset 1979-1984", Geologian tutkimuskeskus, Otaniemi, Field Study Report P3. 31. 4. 001

Jensen, Soren, and Grant, Stephen, W. F., (1998), "Trace fossils from the Dividalen Group, northern

Sweden: implications for Early Cambrian biostratigraphy of Baltica", Norsk Geologisk Tidsskrift, Vol. 78: 305 - 316

Kare, A., (2017), "Always is a Long Time – Experiencing Time in Landscape", Testimonial: Ani Kitabı, (Ed: Erzen, J.N.), Ankara: Middle East Technical University

Kare, A., (2020), "Paradise in mind", Art as we don't know it, (Eds: Berger, E., Mäki-Reinikka, K. & O'Reilly, K.), Helsinki: Aalto Arts Books

Kaur, R., Singh, B., Bhargava, O., Mikuláš, R., Singla, R., Prasad, S., and Stopden, S., (2021), "Ichnology and biostratigraphic significance of Cambrian trace fossils from the lowest stratigraphic level of Kunzam, La Formation, Chandra Valley, Lahaul and Spiti, India", Ichnos, Vol. 28 (3)

Kella, M., (2014), "Kuvitelmiä maisemasta, Teoksessa Marjaana Kella, Käännöksiä – Maisema, kasvot ja esittäminen valokuvassa", Helsinki: Aalto Arts Books

Kivi, J., (2004), "Kaunotaiteellinen eräretkeilyopas", Helsinki: Kustannusosakeyhtiö Taide

Knight, L., (2021), "Inefficient Mapping: A Protocol for Attuning to Phenomena", New York: Punctum Books

Knoll, Andrew H, (2003), "Life on a Young Planet", New Jersey: Princeton University Press

Koivurova, T., Masloboev, V., Hossain, K., Nygaard, V., Petrétei, A. and Vinogradova, S., (2015), "Legal Protection of Sami Traditional Livelihoods from the Adverse Impacts of Mining: A Comparison of the Level of Protection Enjoyed by Sami in Their Four Home States", Arctic Review on Law and Politics, Vol. 6

Koivurova, T. et al., (2015), "Legal protection of Sami traditional livelihoods from the adverse

- impacts of mining: A comparison of the level of protection enjoyed by Sami in their four home states", *Arctic review*, Vol. 6: 11-51
- Konnunhaho, J. et al., (2013), "Mineraalipotentialin arviointi raportti Enontekiö Käsivarsi", Geologian Tutkimuskeskus, Pohjois-Suomen, Rovaniemi, Project Report 7/2013, 1-150
- Korenaga, Jun, Planavsky, Noah J. and Evans, David A. D., (2017), "Global water cycle and the coevolution of the Earth's interior and surface environment", *Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences* Vol. 3
- Kröger, B., Van der Elst, J. and Valkeapää, L., "Stones in Boxes" (in press/this volume)
- Kröger, M., (2016), "Spatial causalities in resource rushes: notes from the Finnish mining boom", *Journal of Agrarian Change*, Vol. 16: 543-570
- Lassila, M. M., (2018), "Mapping mineral resources in a living land: Sami mining resistance in Ohcejohka, Northern Finland", *Geoforum*, Vol. 96: 1-9
- Lehtovaara, J.J., (1995), "Kilpisjärven ja Haltin kartta-alueiden kallioperä", Suomen geologinen kartta 1:100000, Lehdet 1823 ja 1842, Geologian tutkimuskeskus
- Lenzen V. F., (1969), "The Role of Science in the Philosophy of C. S. Peirce"
- Lenzen, V. F., (1972), "Charles S. Peirce as Mathematical Geodesist", *Transactions of the Charles S. Peirce Society*, Bloomington: Indiana University Press
- Lewis, J. E., Philip, N., Arista, N. R., Pechawis, A., Kite, S. and Ahearn, C., (2018), "Making Kin with the Machines", *Journal of Design and Science*
- Looper, Matthew, (2003), "Lightning Warrior: Maya Art and Kingship at Quirigua", Austin: University of Texas Press
- Macmenamin, M. A.S. and Macmenamin, D. L. S., (1994), "Hypersea: Life on Land", New York: Columbia University Press
- Madl, P. and Yip, M., (2006), "Information, Matter and Energy - a non-linear world-view", *Proceedings of the Gathering in Biosemiotics*, Helsinki: Umweb, Vol. 6
- Mángano, G. M. and Buatois, L.A., (2017), "The Cambrian revolutions: Trace-fossil record, timing, links and geobiological impact", *Earth-Science Reviews*, Vol. 173: 96-108
- Mangelsdorf, K. and Kallmeyer, J., (2010), "Integration of Deep Biosphere Research into the International Continental Scientific Drilling Program", *Scientific Drilling*
- Margulis, Lynn, (1995), "Symbiotic planet", London: Weidenfeld & Nicolson
- McLoughlin, S. et al., (2021), "Trace fossils, algae, invertebrate remains and new U-Pb detrital zircon geochronology from the lower Cambrian Torneträsk Formation", *GFF*, Vol. 143: 103-133
- Moody, Roger, (2021), "Rocks and Hard Places: The Globalization of Mining", London: Zed Books
- Müller-Wille, S., (2006), "Linnaeus' herbarium cabinet: a piece of furniture and its function", *Endeavour*, Vol. 30: 60-64.

- Müller-Wille, S., (2007), "Collection and collation: theory and practice of Linnaean botany", *Studies in History and Philosophy of Science Part C: Studies in History and Philosophy of Biological and Biomedical Sciences*, Vol. 38: 541-562
- Müller-Wille, S., (2017), "Names and Numbers: "Data" in Classical Natural History, 1758–1859", *Osiris*, Vol. 32: 109-128
- Muñoz, Jose Esteban, (2009), "Cruising Utopia: the Then and There of Queer Futurity", New York: NYU Press
- Narbonne, G. M. et al., (1987), "A candidate stratotype for the Precambrian–Cambrian boundary, Fortune head, Burin Peninsula, southeastern Newfoundland", *Canadian Journal of Earth Sciences*, Vol. 24: 1277-1293
- Närhinen, T., (2016), "Kuvatiede ja luonnontaide: tutkielma luonnonilmiöiden kuvallisuudesta. Väitöskirja", Helsinki: Taideyliopiston Kuvataideakatemia
- Närhinen, T., et al, (2014), "Viiman vedot: Tuulipiirturin tarina – taiteen tavat, tieteen taustat", *Viivan filosofia*, (Eds: Teoksessa, Heikkilä M, Johansson H.), Helsinki: Kuvataideakatemia
- Nenonen, Jari and Anne Portaankorva, (2009), "The Geology of the Lakeland Finland Area", Helsinki: Geological Survey of Finland
- Newman, C., Agioutantis Z., Boede, G. and Leon, J., (2017), "Assessment of potential impacts to surface and subsurface water bodies due to longwall mining", *International Journal of Mining Science and Technology*, Vol. 27
- Nixon, Rob, (2013), "Slow violence and the environmentalism of the poor", Cambridge: Harvard University Press
- Nykänen, Osmo, (1971), "On the Karelides in the Tohmajärvi Area, Eastern Finland", *Bulletin of the Geological Society of Finland*, Vol. 43: 93–108
- "Oceania Radio Frequency Scientific Advisory" (ORSAA), 2022, Accessed January 5, 2022  
<https://www.orsaa.org>
- Ojala, C. G. and Nordin, J. M. (2015), "Mining Sápmi: Colonial Histories, Sámi Archaeology, and the Exploitation of Natural Resources in Northern Sweden", *Arctic Anthropology*, Vol. 52: 6-21.
- Parikka, Jussi, (2015), "A Geology Of Media", Minnesota: University of Minnesota Press
- Penesyan A., Paulsen I.T., Kjelleberg, S. and Gillings M. R., (2021), "Three faces of biofilms: a microbial lifestyle, a nascent multicellular organism, and an incubator for diversity", *NPJ Biofilms and Microbiomes* 7 (80)
- Pirrus, E., (2004), "Possibilities of stratigraphical interpretation of the Dividal Group in the Kilpisjärvi area", *Proceedings of the Estonian Academy of Sciences, Geology*, Vol. 53: 28-41.
- Plotnick, R. E. and Koy, K. A., (2020), "The Anthropocene fossil record of terrestrial mammal", *Anthropocene*, 29
- Prum, Richard, O., (2017), "The Evolution of Beauty", New York: Anchor Books

- Rayfield, E. J., J. M. Theodor, and P. D. Polly, (2020), "Fossils from conflict zones and reproducibility of fossil-based scientific data", Society of Vertebrate Paleontology, Letter: 21/04/2020
- Ride, W. D. L. et al., (2000), "The International Code of Zoological Nomenclature", The International Trust for Zoological Nomenclature, London : International Trust for Zoological Nomenclature, c/o Natural History Museum
- Repcheck, Jack, (2003), "The Man Who Found Time", New York: Basic Books
- Sacco, J., (2020), "Paying the land", New York: Metropolitan Books
- Sagan, Carl, (1985), "Cosmos", New York: Ballantine Books
- Salminen, Antti, and Vadén, Tere, (2015), "Energy and Experience", Chicago: MCM Publishing
- Schwartz, F.W., Lee, S. and Darrah, T.H., (2021), "A Review of the Scope of Artisanal and Small-Scale Mining Worldwide, Poverty, and the Associated Health Impacts", GeoHealth, Vol. 5
- Seilacher, A., (1955), "Spuren und fazies im Unterkambrium. Beiträge zur Kenntnis des Kambriums in der Salt Range (Pakistan)", Abhandlungen der Akademie der Wissenschaften und der Literatur zu Mainz, Mathematisch-Naturwissenschaftliche Klasse, Vol. 10: 373-399
- Seilacher, A. (2007), "Trace Fossil Analysis", Berlin: Springer Science & Business Media
- Seilacher, A. Butaiois, L. A., and Mangano, M. G., (2005), "Trace fossils in the Ediacaran–Cambrian transition: Behavioral diversification, ecological turnover and environmental shift", Palaeogeography Palaeoclimatology Palaeoecology, Vol. 227(4): 323 - 356
- Seilacher, A. and Pflüger, F., (1994), "From biomats to benthic agriculture: A biohistoric revolution." (Eds, Krumbein, W. E., Paterson, D.M. & Stal, L.J.), Oldenburg: Carl von Ossietzky Universität
- Shi, C. et al., (2021), "Balance scientific and ethical concerns to achieve a nuanced perspective on 'blood amber'", Nature Ecology & Evolution, Vol. 5: 705-706
- Sipila, Pekka, (1992), "The Caledonian Halti-Ridnitsohkka Igneous Complex in Lapland", Geologian tutkimuskeskus, Bt. 362
- Smith, C., (2013), "Community Unlimited, A Peircean Analysis of Otherness, Inquiry, and Individualism", Otherness: Essays and Studies 4.1
- Snead, J. E., Erickson, C. L. and Darling, J., (2010), "1. Making Human Space: The Archaeology of Trails, Paths, and Roads, Landscapes of Movement", Pennsylvania: University of Pennsylvania Press
- Sonesson, G., (2019), "Elements of Peircean phenomenology: From categories to signs by way of grounds", Semiotica 2019 (228): 259-285
- Sookias, R. B., Budd, G. E. and Kear, B. P., (2013), "Mesozoic fossil sustainability: synoptic case studies of resource management", GFF, Vol. 135: 131-143
- Starosielski, N., (2015), "The Undersea Network", North Carolina: Duke University Press



- Steyerl, Hito, (2016), "A Sea of Data: Apophenia and Pattern (Mis-)Recognition", *e-flux Journal*, Vol.72
- Stjernvall and J. H., (1891), "Bidrag till Finska Lappmarkens geognosi II", *Meddelanden fran Industristyrelsen*, 17, 95-146
- Suonpaa, J., Skruf, B., (2001), "Luontokuvan totuuden hetki, Suomen Valokuvataiteen museo", Helsinki: Erweko Painotuote Oy
- Systra, Y. J. and Jensen, S., (2006), "Trace fossils from the Dividalen Group of northern Finland with remarks on lower Cambrian trace fossil provincialism", *GFF*, Vol. 128
- Tamborini, M., (2020), "Technoscientific approaches to deep time", *Studies in History and Philosophy of Science Part A*, Vol. 79: 57-67.
- Thelander, T., (1982), "The Torneträsk formation of the dividal group northern Swedish caledonides", *Sveriges Geologiska Undersökning C*, Vol. 789: 1-41.
- Thyrhaug, Erling, et al., (2018), "Identification and characterization of diverse coherences in the Fenna–Matthews–Olson complex", *Nature Chemistry*. 10. 10.1038/s41557-018-0060-5.
- Turland, N.J. et al. (2018), "International Code of Nomenclature for algae, fungi, and plants (Shenzhen Code) adopted by the Nineteenth International Botanical Congress Shenzhen, China, July 2017", *Regnum Vegetabile*, Vol. 159, Glashütten: Koeltz Botanical Books
- Turpin, Etienne, (2012), "The geologic turn: architecture's new alliance." *Design Research Symposium on the Anthropocene*, University of Michigan, United States, 10 Jan, 10-11 Feb 2012, Michigan, United States: University of Michigan. Accessed October 23, 2019. <http://ro.uow.edu.au/cgi/viewcontent.cgi?article=1182&context=smartpapers>
- Tyler, N. J. C., Hanssen-Bauer, I., Førland, E. J. and Nellemann, C., (2021), "The Shrinking Resource Base of Pastoralism: Saami Reindeer Husbandry in a Climate of Change", *Frontiers in Sustainable Food Systems*, Vol. 4
- Valkeapää, Leena, (2011), "Luonnossa : vuoropuhelua Nils-Aslak Valkeapään tuotannon kanssa", Helsinki: Aalto University publication series
- Valkeapää, L., (2011), "Luonnossa: vuoropuhelua Nils-Aslak Valkeapään tuotannon kanssa", Helsinki: Department of Art, Aalto University
- Van Der Elst, J., (2010), "Exploring Cognitive Landscapes: toward and understanding of the relationship between space/time conceptualization and cultural material expression", *Cyberarchaeology (BAR International Series)*, Oxford: British Archaeological Reports
- Van Der Elst, J., (2020). "POLAR-IZATION", *ArtEZ studium generale*, Accessed 8 January 8, 2022 <https://studiumgenerale.artez.nl/nl/studies/all/blog/polar+ization/>
- Van Wesel, M., (2016), "Evaluation by citation: Trends in publication behavior, evaluation criteria, and the strive for high impact publications", *Science and Engineering Ethics*, Vol. 22: 199-225
- Vannier, J. et al., (2010), "Priapulid worms: pioneer horizontal burrowers at the Precambrian-Cambrian boundary", *Geology*, Vol. 38: 711-714



- Vicsek, Tamás and Zafeiris, Anna, (2012), "Collective Motion", *Physics Reports*, Vol. 517: 71-140
- Valley, John, et al, (2014), "Hadean age for a post-magma-ocean zircon confirmed by atom-probe tomography", *Nature Geoscience*, Vol. 7 2014: 219–223
- Wark, Mc Kenzie, (2015), "Molecular Red", New York: Verso Books
- Wegener, Alfred, (2015), "Die Entstehung der Kontinente und Ozeane", Alfred-Wegener-Inst. für Polar- und Meeresforschung, Bremerhaven: Bremerhaven Alfred-Wegener Institut für Polar und Meeresforschung
- Whitridge, Peter, (2013), "The Imbrication of Human Animal Paths: An Arctic Case Study", *Relational Archeologies*, Oxfordshire: Routledge
- Wilson, Andrew D., Golonka, Sabrina, (2013), "Embodied Cognition is not what you think it is" Hypothesis and Theory Article, *Frontiers in Psychology*, Vol. 4
- Working group on the 'Anthropocene', (2019), "Anthropocene." Accessed October 23, 2019. <https://quaternary.stratigraphy.org/workinggroups/anthropocene/>
- Zalasiewicz J., Waters, C. N. and Mark, W., (2014), "Human bioturbation, and the subterranean landscape of the Anthropocene", Elsevier: *Anthropocene* Vol. 6
- Zen. E-an, (2001), "What is deep time and why should anyone care?", *Journal of Geoscience Education*, Vol. 49, n.1, January, 2001: 5-9
- Zin-Maung-Maung-Thein & Khin, Z., (2021), "Parachute research is another ethical problem for Myanmar amber", *Nature Ecology & Evolution*, Vol. 5: 707