

## DEPARTMENT OF EARTH SCIENCE 2008

## PUBLICATIONS, REPORTS & PRESENTATIONS

### Bøker/Books

Dilek Y., **Furnes H.** & Muehlenbachs K (eds.), 2008. Links between geological processes, microbial activities & evolution of life - microbes and geology. Springer Science Business Media B.V., **xx pp**

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**Husebye E.S.**, 2008. Earthquake monitoring and Seismic Hazard Mitigation in Balkan Countries. Springer Verlag, Berlin, 289pp.

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Agersborg R., **Johansen T.A.** & **Jakobsen M.**, 2008. Velocity variations in carbonate rocks due to dual porosity and wave-induced fluid flow. Geophysical Prospecting, doi:10.1111/j.1365-2478.2008.00733.x.

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- Fredin O. et al. (**Nesje A.**) Sediment budget, processes and landscape evolution in Nordfjord, western Norway.
- Hjelstuen B.O. & Haflidason H.** Norwegian margin fluid escape structures – sedimentary environments and evolution.
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- Huismans R.S., & Beaumont C.** Complex rifted margins explained by dynamical models of depth-dependent lithospheric extension.
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- Pedersen R.B., Barriga F., Escartin J., Früh-Green G., MacLeod C., Mjelde R. & Thorseth I.H.** Ultra-slow spreading and hydrogen-based deep biosphere: Objectives and preliminary results of the H2DEEP project.
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- Thieulot C., **Huismans R.S., Braun J.** DOUAR, a new 3D creeping flow model for the solution of geological problems: some applications.
- Thorseth I.H., Pedersen R.B., Kruber C. & Kosler J.** Microbial control of the formation of low-temperature hydrothermal iron-deposits at the 71°N vent field at the Arctic Mid-Ocean Ridge.
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- Øvreås L., Johannessen T., Einen J., Jørgensen S.L., **Thorseth I.H. & Pedersen R.B.** Microbial diversity in low temperature iron deposits at the 71°N hydrothermal vent field along the Arctic-Ocean Ridge.
- 39<sup>th</sup> Nordic Seismology Seminar, Oslo, 4-6.06.2008**
- Atakan K., Ottemöller L., Raeesi M. & Havskov J.** Two recent earthquakes: link long-term deformation with present day seismicity and hazard.
- Bjerrum L.W. & Atakan K.** Scenario based ground motion simulations using refined slip models for Izmir and Tuzla faults in Izmir, Turkey.
- Raeesi M. & Atakan K.** A snapshot of the subduction zone processes along the Kurile-arc.
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- Sørensen M.B. & **Atakan K.** Continued earthquake hazard in Northern Sumatra.
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- Jakobsen M. & Shahraini A.** Improved characterization of naturally fractured reservoirs by joint inversion of production and seismic AVOZ data.
- Saberi M.R., **Johansen T.A. & Agersborg R.** Pore geometry as an indicator of depositional texture and velocity variations in chalks.
- Goldschmidt 2008, Vancouver, Canada, 13-18.07.2008**
- Banerjee N.R., **Furnes H., Muehlenbachs K., Staudigel H., McLoughlin N. & Bebout G.** Biogeochemical tracers of modern and ancient life in seafloor lavas.
- Fliegel D., McLoughlin N., Kosler J., Banerjee N., Simonetti A. & Furnes H.** Direct in-situ dating of titanite in biotextures using laser ablation inductively coupled plasma mass spectrometry.
- Staudigel H., **Furnes H., McLoughlin N., Banerjee N.R., Connell L.B. & Templeton ?.** Microbial glass bioalteration: inferring mechanisms of bio-corrosion from trace fossil morphology.
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## Symposia presentations

- Atakan K.** Importance of paleoseismic data for seismic hazard assessment.
- Bingen B. et al. (**Jacobs J.**). Gondwana assembly: Geochronological and Hf isotope constraints from the East African Orogen in NE Mozambique.
- Bjelland T., Grube M., Daae F.L., **Thorseth I.H.** & Øvreås L. Microbial communities in the lichen-rock interface.
- Bjerrum L.W.** & **Atakan K.** Scenario based ground motion simulations for assessing deterministic seismic hazard in Izmir, Turkey - introducing simple and refined slip models for Izmir and Tuzla faults.
- Bjerrum L.W.**, **Atakan K.** & Sørensen M.B. Ground motion simulations and parameter sensitivity – a case study for assessing seismic hazard in Izmir, Turkey.
- Braathen A.**, Mørk A., **Nemec W.J.**, Sand G., Jochmann M. & Elvebakk H. UNIS CO<sub>2</sub>-lab Longyearbyen, 78°N: gas reservoirs in reverse.
- Breivik A.J., Faleide J.I. & **Mjelde R.** Determining volcanic continental margin breakup style on the Norwegian Margin - which criteria are important and can they be generalized?
- Brendryen J.**, **Haflidason H.**, **Sejrup H.P.** & **Grasmo K.** Centennial-scale correlation of a 50-125 ka Nordic Seas marine record and Greenland ice core isotope data based on XRF core scanner technique.
- Chen Y., **Haflidason H.** & Knies J. Methane fluxes from pockmark areas in Nyegga, Norwegian Sea.
- Chiodoni F.** & **Robins B.** Cryptic layering in the Sokndal lobe of the Bjerkeim-Sokndal intrusion, Rogaland anorthosite province, SW Norway.
- Crispin L., **Thorseth I.H.**, Grenne T. & Slack J. Bacteriogenic iron oxide precipitation at deep-sea hydrothermal vents: a 1.7 Gya record.
- Daae F.L., **Økland I.**, Øvreås L., Bjelland T., **Thorseth I.H.** & **Pedersen R.B.** Microbial communities related to low-temperature alteration of ultramafic rocks.
- Dilek, Y. & **Furnes, H.** 2008. Accretion of ancient oceanic crust as in ophiolites.
- Eldholm O.** A tribute to Manik Talwani - an introduction.
- Faleide J.I., Tsikalas F., Breivik A.J., **Mjelde R.**, Ritzmann O., Engen Ø., Wilson J. & **Eldholm O.** Basin evolution at the Norwegian-Greenland margins in the NE Atlantic.
- Engvik A.K., Bingen B., Tveten E., Viola G., **Jacobs J.** & Daudi E. Palaeoproterozoic to early Palaeozoic granulite-facies metamorphism in the East African Orogen, NE Mozambique.
- Furnes H.**, **McLoughlin N.** et al. Oceanic pillow lavas and hyaloclastites as habitats for microbial life through time - a review.
- Furnes H.**, **McLoughlin N.** et al. Seeking microbial bioalteration textures in pillow lavas from the proterozoic of the Pachenga Greenstone belt.
- Furnes H.**, Robins B. & de Wit M. Chemostratigraphy of the Hooggenoeg and Kromberg Formations of the Barberton greenstone belt, South Africa.
- Furnes H.**, Rosing M., Dilek Y., de Wit M. The Isua supracrustal belt (Greenland) - A vestige of a 3.8 Ga suprasubduction zone.
- Gac S.**, **Huismans N.S.**, Simon J.S. & Podladchikov Y.Y. Are phase changes at the origin of the large subsidence of Barents Sea basins? Insights from dynamic numerical modelling.
- Grasmo K.**, **Haflidason H.**, **Sejrup H.P.** & **Zuhlsdorff C.** Paleocenographic variability during MIS 7 in the Norwegian Sea; a multiproxy study.
- Grunnaleite I. et al. (**Talbot M.**, **Larsen B.**, **Soltveit K.**, **Johansen T.A.**). Integration of multiple outcrop data into 3D carbonate reservoir models.
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- Lauritzen S-E.** GSM-03: Karst as a Global phenomenon: a tribute to Derek Ford and Paul Williams.
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- Ottesen D., Clark C. & **Nygård A.** HPQ-04: Quaternary palaeo-ice streams of the northern and southern hemisphere.
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- Robins B.**, Tegner C. & Charlier B. MPI-06: Layered Intrusions and the Evolution of Magma Chambers
- Thorseth I.H.** & Little C. BGB-02: Geomicrobiology: Low-temperature alteration, mineralization, and microbial interactions
- IGC Excursions** (including field guides)
- Aarseth I.** & **Nesje A.** & Fredin O., 31: UNESCO Fjords: From Nærøyfjord to Geirangerfjord.
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**Bjerrum L.W. & Atakan K.** Scenario based ground  
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**Jansen E.** Climate changes - evidence and impacts  
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- Mangerud J.** Varmt og godt i Bergen før siste istid. Foredrag i Selskapet for Vitenskapens Fremme. Bergen 12.11.2008.
- Nemec W.** Depositional architecture and heterogeneity of turbidite successions: What is within and what is without seismic resolution? StatoilHydro, Stavanger, 23-24.01.2008.
- Nesje A.** Dei norske isbreane i fortid, notid og framtid, NGF, Bergen, 28.02.2008.
- Nesje A.** Havnivå: Fortid - notid - framtid, Seminar om klimasårbarheit, Klima- og miljøplan for Sogn og Fjordane, Rica Sunnfjord Hotell, Førde, 10-11.01.2008.
- Nesje A.** Havnivå og brear i endring. Vassdragsdagane 2008, Norges vassdrags- og energidirektorat (NVE), Bergen, 22-23.04.2008.
- Nesje A.** Isbreane i Noreg i fortid, notid og framtid, Geilo Ice Festival 20.01.2008.
- Nesje A.** Klimadata og forskningspotensiale. Vassdragsseminar ved Riksantikvaren, Oslo, 8-9.04.2008.
- Nesje A.** Klimaendringar i fortida: Kva bør VA-bransjen vere obs på? Powel ASA, Scandic Hotell, Bergen, 05.05.2008.
- Nesje A.** Klimaendringar og konsekvensar. Seminar om Geofare og klimaendringar, HiSF, 27.05.2008.
- Nesje A.** Klimautfordringar for Sogn og Fjordane, Konferanse arrangert av Landbruks- og miljøetaten, Fylkesmannen i Sogn og Fjordane, Loen, 29.10.2008.
- Nesje A.** Norske isbreer etter istiden, Seksjon for bre og snø, NVE, Oslo, 14.02.2008.
- Nesje A.** Prognoser for havnivå de kommende 100 årene. Norsk Vannforening, Bergen, 17.12.2008.
- Nesje A.** Siste nytt frå IPCC: korleis vert klimaet i framtida og kor sikre er vi på klimautviklinga i framtida? Norsk Bremuseum Fjærland. 17.09.2008.
- Nesje A.** The latest news from the IPCC: how will the future climate be and how sure are we about the future climate development, Norsk Bremuseum Fjærland, Fjærland, 17.09.2008.
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- Zarifi Z.** Makran Subduction Zone and its future strong earthquakes. Earth Science Department, University of Western Ontario, Canada, 27.02.2008.
- Zarifi Z.** Makran (Iran/Pakistan) Subduction Zone, it's Seismogenic Behavior and Tsunami Potential. School of engineering and applied sciences, Harvard University, USA, 4.03.2008.
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- Jansen E.** Omorganisering skal styrke forskinga. Intervju i På Høyden, 22.02.2008.  
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- Nesje A.** Artikkel tittel: Vil ha miljøbevisste turister. Reis ut mens det ennå er fritt fram - og attraksjoner igjen å oppleve. Men gjør Moder Jord en tjeneste - reis så «grønt» som mulig. [http://www.fedrelandsvennen.no/vi\\_og\\_vart/article547048.ece](http://www.fedrelandsvennen.no/vi_og_vart/article547048.ece)  
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- Nesje A.** Vil klimaendringer påvirke reiselivet? Bergens Tidende, 03.01.2008. <http://www.bjerknes.uib.no/admin/mediefiler/75.doc>
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