

## CURRICULUM VITAE

### Dr. Florian Scholz

Postal address	GEOMAR Helmholtz Centre for Ocean Research Kiel Wischhofstraße 1-3 24148 Kiel, Germany
Phone	+49 431 600 2113
E-mail	<a href="mailto:fscholz@geomar.de">fscholz@geomar.de</a>
Webpage	<a href="http://www.geomar.de/~fscholz">www.geomar.de/~fscholz</a>

#### RESEARCH FIELDS

- Sediment geochemistry, paleo-biogeochemistry
- Application of trace metal and isotope systematics to questions of past and current environmental change in the ocean
- Water-mineral interactions and their role in global (bio)geochemical cycles through Earth's history

#### ACADEMIC EDUCATION

06/2018	Submission of habilitation thesis to the Faculty of Mathematics and Natural Sciences at Kiel University; thesis title: "Sedimentary iron and trace metal cycling in oxygen minimum zones: Implications for marine productivity and redox evolution" (habilitation lecture will take place in June 2019)
2007-2010	PhD in marine geochemistry, GEOMAR Helmholtz Centre for Ocean Research Kiel and Kiel University; doctoral thesis: "Pore water expulsion at submarine cold seeps: geochemical evidence for short-cuts between crust, sediments and ocean" (marked with distinction: <i>summa cum laude</i> )
2004-2005	Visiting student (Marine Geoscience), Département des Environnements et Paléoenvironnements Océaniques et Continentaux (EPOC), University of Bordeaux 1, France
2000-2007	Diplom (comparable to MSc) in Geoecology, Karlsruhe Institute of Technology (KIT), Germany

#### PROFESSIONAL EXPERIENCE

Since 2016	Emmy Noether junior research group leader, Department for Biogeochemistry, GEOMAR
2014-2016	Postdoctoral researcher/Marie Curie Fellow (return phase), Departments for Biogeochemistry and Ocean Circulation and Climate Dynamics, GEOMAR
2012-2014	Postdoctoral researcher/Marie Curie Fellow (outgoing phase), College of Earth, Ocean, and Atmospheric Sciences, Oregon State University, USA
2010-2012	Postdoctoral researcher within the Collaborative Research Centers 574 (Volatiles and fluids in subduction zones) and 754 (Climate-biogeochemistry interactions in the tropical ocean), GEOMAR
2007-2010	PhD research fellow, Department for Biogeochemistry, GEOMAR

- 03/2005-04/2005      Research trainee, EPOC, University of Bordeaux 1; geographical information system-based analysis of heavy metal pollution in sediments of the Gironde estuary
- 2003-2006              Research assistant, Institute of Mineralogy and Geochemistry, Karlsruhe Institute of Technology

### **SUCCESSFUL GRANT APPLICATIONS**

- 2016-2021      Iron cycling in continental margin sediments and the nutrient and oxygen balance of the ocean (ICONOX); junior research group within the Emmy Noether Program of the Deutsche Forschungsgemeinschaft (DFG) (1,041,150 €); principal investigator
- 2015              Diazotrophic response to gradual anoxia in the Baltic Sea; research proposal to the DFG Excellence Cluster "The Future Ocean" (54,000 €); co-principal investigator
- 2014              Beam time proposal at the Synchrotron Radiation Facility at KIT; 6 days for the analysis of iron concentrations and speciation in sediments and suspended particulate matter; principal investigator
- 2012-2016      Benthic iron cycling in oxygen minimum zones and implications for ocean biogeochemistry (BICYCLE); Marie Curie International Outgoing Fellowship of the European Union (255,453 €); principal investigator

### **AWARDS**

- 2011              Annette Barthelt Preis; research award for outstanding doctoral dissertations in ocean science, awarded by the Annette Barthelt Foundation and the German Ministry for Education and Research (3,000 €)

### **MISCELLANEOUS PROFESSIONAL ACTIVITIES**

#### ***Journal reviews***

ACS Air & Space Chemistry, Biogeosciences, Chemical Geology, Deep-Sea Research, Earth and Planetary Science Letters, Estuarine Coastal and Shelf Science, Geobiology, Geochemistry Geophysics Geosystems, Geochimica et Cosmochimica Acta, Journal of Asian Earth Science, Marine Chemistry, Marine Geology, Nature, Nature Geoscience, Paleoceanography, Proceedings of the National Academy of Science, The Holocene, The Science of the Total Environment

#### ***Grant reviews***

Deutsche Forschungsgemeinschaft (DFG), US National Science Foundation (NSF), Schweizer Nationalfond (SNF), NASA postdoctoral program, Israel Science Foundation, Schmidt Ocean Institute

#### ***Editorial boards***

Associate editor for Marine Chemistry

#### ***Invited lectures and talks (past three years)***

Geochemistry and Petrology seminar, ETH Zürich, (11/2018)

GeoBonn 2018, keynote talk in session "Oceanic oxygen, ice ocean interactions and climate change" (09/2018)

Quaternary environmental geoscience colloquium, University of Basel (06/2018)

Earth Talks seminar series, University of Copenhagen (01/2018)

Geobiology group seminar, University of Tübingen (12/2017)

Invited guest at the Gordon Research Conference on Chemical Oceanography, invited speaker in session "Sediment processes - scaling up from local to global scales" (08/2017)

Trace Metal Day, symposium at the School of Earth and Environment, University of Leeds (12/2016)

***Organization of scientific sessions at international conferences***

New insights in marine trace element biogeochemistry, Goldschmidt Conference 2018, Boston  
Biogeochemical cycling across oxic-anoxic transitions, Ocean Sciences Meeting 2018, Portland

***Memberships***

European Association of Geochemistry (EAG)

***Research expeditions***

2017           RV Meteor cruise M136, Eastern Equatorial Pacific off Peru; Principal investigator of the Emmy Noether group (22 days)

2015           RV Sonne cruise SO241, Gulf of California (30 days)

2012           RV Meteor cruise M86-5, Gulf of Cadiz, Northeast Atlantic; Principal investigator of the sediment geochemistry group (23 days)

2010           RV Sonne cruise SO210, Southeast Pacific off Chile; Principal investigator of the sediment geochemistry group (42 days)

2008           RV Meteor cruise M77-1, Eastern Equatorial Pacific off Peru (30 days)

2007/2008     Poseidon cruises POS362-1 and POS362-2, Eastern Mediterranean Sea (31 days)

2007           RV Meteor cruise M72-3b, Black Sea (21 days)

Since 2004    Short-term cruises in estuaries and shelf seas

**TEACHING AND MENTORING**

***Lecturer at Kiel University***

Introduction to marine geology (BSc Geoscience, MSc Biological Oceanography, co-taught, winter semester, since 2018)

Introduction to marine geochemistry (BSc, co-taught, winter and summer semester, since 2015)

Literature seminar (BSc, co-taught, summer semester and winter semester 2017)

***Guest lecturer at Oregon State University***

Sedimentary processes in the ocean basins (winter term 2014)

Introduction to chemical oceanography (spring term 2013)

***Thesis advisor/co-advisor***

BSc students in Geosciences (2)

MSc Students in Geosciences (5 completed, 2 ongoing) and Biological Oceanography (1)

PhD Students (1 completed, 1 ongoing)

**PUBLICATIONS*****Submitted manuscripts***

- Eroglu S., **Scholz F.**, Frank M., Siebert C., Influence of particulate versus diffusive molybdenum supply mechanisms on the molybdenum isotope composition of continental margin sediments. *Geochimica et Cosmochimica Acta*, in review.
- Scholz F.**, Schmidt M., Hensen C., Eroglu S., Geilert S., Gutjahr M., Liebetrau V., Shelf-to-basin iron shuttle in the Guaymas Basin, Gulf of California. *Geochimica et Cosmochimica Acta*, in review.
- Geilert S., Hensen C., Doering K., Grasse P., Ehlert C., Liebetrau V., **Scholz F.**, Schmidt M., Frank M., Impact of ambient conditions on the Si isotope fractionation in marine pore fluids and bSiO<sub>2</sub> preservation during early diagenesis. *Geochimica et Cosmochimica Acta*, in review.
- Bruggmann S., **Scholz F.**, Kläbe R. M., Canfield D. E., Frei R., Chromium isotope cycling in the water column and sediments of the Peruvian continental margin, *Geochimica et Cosmochimica Acta*, in review.

***Peer-reviewed publications***

- Scholz F.**, Beil S., Flögel S., Lehmann M., Holbourn A., Wallmann K., Kuhnt W. (2019) Oxygen minimum zone-type biogeochemical cycling in the Cenomanian-Turonian Proto-North Atlantic across Oceanic Anoxic Event 2. *Earth and Planetary Science Letters*, accepted manuscript in press.
- Wallmann K., Flögel S., **Scholz F.**, Dale A., Kemena T., Steinig S., Kuhnt W. (2019) Redox seesaw drives periodic changes in Cretaceous ocean productivity and atmospheric pCO<sub>2</sub> on orbital time scales. *Nature Geoscience*, accepted manuscript in press.
- Lomnitz U., Hensen C., Dale A., **Scholz F.**, Clemens D., Sommer S., Noffke A., Wallmann K. (2019) Dissolved benthic phosphate, iron and carbon fluxes in the Mauritanian upwelling system and implications for ongoing deoxygenation. *Deep-Sea Research* 143, 70-84.
- Geilert S., Hensen C., Schmidt M., Liebetrau V., **Scholz F.**, Doll M., Longhui D., Lever M. A., Su C. C., Schlömer S., Sarkar S., Thiel V., Berndt C. (2018) On the formation of hydrothermal vents and cold seeps in the Guaymas Basin, Gulf of California. *Biogeosciences* 15, 5715-5731.
- Scholz F.** (2018) Identifying oxygen minimum zone-type biogeochemical cycling in Earth history using inorganic geochemical proxies. *Earth-Science Reviews* 184, 29-45.
- Scholz F.**, Baum M., Siebert C., Eroglu S., Dale A., Naumann M., Sommer S. (2018) Sedimentary molybdenum cycling in the aftermath of seawater inflow to the intermittently euxinic Gotland Deep, Central Baltic Sea. *Chemical Geology* 491, 27-38.
- Ramalho S.P., Ribeiro C., Hensen C., **Scholz F.**, Nuzzo M., Terrinha P., Adão H. (2018) Benthic nematode biodiversity of the Abzu, Tiamat and Michael Ivanov mud volcanoes located along the SWIM fracture zone (Gulf of Cadiz). *Marine Biodiversity* 48, 423-438.
- Mazzini A., **Scholz F.**, Svensen H., Hensen C., Soffian H. (2018) The geochemistry and origin of hydrothermal water erupted at Lusi, Indonesia. *Marine and Petroleum Geology* 90, 52-66.
- Scholz F.**, Siebert C., Dale A., Frank M. (2017) Intense molybdenum accumulation in sediments underneath a nitrogenous water column and implications for the reconstruction of paleo-redox conditions based on molybdenum isotopes. *Geochimica et Cosmochimica Acta* 213, 400-417.
- Geersen J., **Scholz F.**, Linke P., Schmidt M., Lange D., Behrmann J. H., Völker D., Hensen C. (2016) Fault zone controlled seafloor methane seepage in the rupture area of the 2010 Maule Earthquake, Central Chile. *Geochemistry Geophysics Geosystems* 17, 4802-4813.
- Scholz F.**, Löscher C. R., Fiskal A., Sommer S., Hensen C., Lomnitz U., Wuttig K., Göttlicher J., Kossel E., Steininger R., Canfield D. E. (2016) Nitrate-dependent iron oxidation limits iron transport in anoxic ocean regions. *Earth and Planetary Science Letters* 454, 272-281.

- Ehlert C., Doering K., Wallmann K., **Scholz F.**, Sommer S., Grasse P., Geilert S., Frank M. (2016) Stable silicon isotope signatures of marine pore waters - biogenic opal dissolution versus authigenic clay mineral formation. *Geochimica et Cosmochimica Acta* 191, 102-117.
- Berndt C., Hensen C., Mortera-Gutierrez C., Sarkar S., Geilert S., Schmidt M., Liebetrau V., Kipfer R., **Scholz F.**, Doll M., Muff S., Karstens J., Planke S., Petersen S., Böttner C., Chi W. C., Moser M., Behrendt R., Fiskal A., Lever M. A., Su C. C., Deng L., Brennwald M.S., Lizarralde D. (2016) Rifting under steam - How rift magmatism triggers methane venting from sedimentary basins. *Geology* 44, 767-770.
- Dale A., Nickelsen L., **Scholz F.**, Hensen C., Oschlies A., Wallmann K. (2015) A revised global estimate of dissolved iron fluxes from marine sediments. *Global Biogeochemical Cycles* 29, 691-707.
- Hensen C., **Scholz F.**, Nuzzo M., Valadares V., Gràcia E., Terrinha P., Liebetrau V., Kaul N., Silva S., Martínez-Loriente S., Bartolome R., Piñero E., Magalhães V.H., Schmidt M., Weise S.M., Cunha M., Hilario A., Perea H., Rovelli L., Lackschewitz K. (2015) Strike-slip faults mediate the rise of crustal-derived fluids and mud volcanism in the deep sea. *Geology* 43, 339-342.
- Scholz F.**, Severmann S., McManus J., Noffke A., Lomnitz U., Hensen C. (2014) On the isotope composition of reactive iron in marine sediments: Redox shuttle versus early diagenesis. *Chemical Geology* 389, 48-59.
- Scholz F.**, McManus J., Mix A.C., Hensen C., Schneider R.R. (2014) The impact of ocean deoxygenation on iron release from continental margin sediments. *Nature Geoscience* 7, 433-437.
- Scholz F.**, Severmann S., McManus J., Hensen C. (2014) Beyond the Black Sea paradigm: The sedimentary fingerprint of an open-marine iron shuttle. *Geochimica et Cosmochimica Acta* 127, 368-380.
- Neumann T., **Scholz F.**, Kramar U., Ostermaier M., Rausch N., Berner Z. (2013) Arsenic in framboidal pyrite from recent sediments of a shallow water lagoon of the Baltic Sea. *Sedimentology* 60, 1389-1404.
- Scholz F.**, McManus J., Sommer S. (2013) The manganese and iron shuttle in a modern euxinic basin and implications for molybdenum cycling at euxinic ocean margins. *Chemical Geology* 355, 56-68.
- Haffert L., Haeckel M., Liebetrau V., Berndt C., Nuzzo M., Reitz A., **Scholz F.**, Schönfeld J., Perez-Garcia C., Weise S. M. (2013) Fluid evolution and authigenic mineral paragenesis related to salt diapirism - the Mercator mud volcano in the Gulf of Cadiz. *Geochimica et Cosmochimica Acta* 106, 261-286.
- Scholz F.**, Hensen C., Schmidt M., Geersen J. (2013) Submarine weathering of silicate minerals and the extent of pore water freshening at active continental margins. *Geochimica et Cosmochimica Acta* 100, 200-216.
- Nuzzo M., Elvert M., Schmidt M., **Scholz F.**, Reitz A., Ferreira A., Hinrichs K.-U., Hensen C. (2012) Impact of hot fluid advection on hydrocarbon gas production and seepage in mud volcano sediments of thick Cenozoic deltas. *Earth and Planetary Science Letters* 341-344, 139-157.
- Noffke A., Hensen C., Sommer F., **Scholz F.**, Bohlen L., Mosch T., Graco M., Wallmann K. (2012) Benthic iron and phosphorus fluxes across the Peruvian oxygen minimum zone. *Limnology and Oceanography* 57, 851-867.
- Scholz F.**, Hensen C., Noffke A., Rohde A., Liebetrau V., Wallmann K. (2011) Early diagenesis of redox-sensitive metals in the Peru upwelling area: response to ENSO-related oxygen fluctuations in the water column. *Geochimica et Cosmochimica Acta* 75, 7257-7276.
- Bohlen L., Sommer S., Dale A., Mosch T., Hensen C., Noffke A., **Scholz F.**, Wallmann K. (2011) Benthic nitrogen cycling traversing the Peruvian oxygen minimum zone. *Geochimica et Cosmochimica Acta* 75, 6094-6111.
- Völker D., **Scholz F.**, Geersen J. (2011) Analysis of submarine landsliding in the rupture area of the 27 February 2010 Maule earthquake, Central Chile. *Marine Geology* 28, 79-89.

- Reitz A., Pape T., Haeckel M., Schmidt M., Berner U., **Scholz F.**, Liebetrau V., Aloisi G., Weise S.M., Wallmann K. (2011) Sources of fluids and gases expelled at cold seeps offshore Georgia, eastern Black Sea. *Geochimica et Cosmochimica Acta* 75, 3250-3268.
- Scholz F.**, Hensen C., De Lange G.J., Haeckel M., Liebetrau V., Meixner A., Reitz A., Romer R.L. (2010) Lithium isotope geochemistry of marine pore waters: Insights from cold seep fluids. *Geochimica et Cosmochimica Acta* 74, 3459-3475.
- Scholz F.**, Hensen C., Lu Z., Fehn U. (2010) Controls on the  $^{129}\text{I}/\text{I}$  ratio of deep-seated marine interstitial fluids: 'old' organic versus fissiogenic  $^{129}\text{I}$ . *Earth and Planetary Science Letters* 294, 27-36.
- Feseker T., Brown K.R., Blanchet C., **Scholz F.**, Nuzzo M., Reitz A., Schmidt M., Hensen C. (2010) Active mud volcanoes on the upper slope of the western Nile deep-sea fan – first results from the P362/cruise of R/V Poseidon, *Geo-Marine Letters*. DOI 10.1007/s00367-010-0192-0.
- Nuzzo M., Hornibrook E.R.C., Gill F., Hensen C., Pancost R.D., Haeckel M., Reitz A., **Scholz F.**, Magalhães V.H., Brückmann W., Pinheiro L.M. (2009) Origin of light volatile hydrocarbon gases in mud volcano fluids, Gulf of Cadiz – Evidence for multiple sources and transport mechanisms in active sedimentary wedges. *Chemical Geology* 266, 359-372.
- Scholz F.**, Hensen C., Reitz A., Romer R.L., Liebetrau V., Meixner A., Weise S.M., Haeckel M. (2009) Isotopic evidence ( $^{87}\text{Sr}/^{86}\text{Sr}$ ,  $\delta^7\text{Li}$ ) for alteration of the oceanic crust at deep-rooted mud volcanoes in the Gulf of Cadiz, NE Atlantic Ocean. *Geochimica et Cosmochimica Acta* 73, 5444-5459 (Corrigendum published in 2015, *Geochimica et Cosmochimica Acta* 152, 52-53).
- Scholz F.**, Neumann T. (2007) Trace element diagenesis in pyrite-rich sediments of the Achterwasser lagoon, SW Baltic Sea. *Marine Chemistry* 107, 516-532.

#### ***Non peer-reviewed publications***

- Scholz F.** (2011) Geochemische Indizien für den stofflichen Austausch zwischen Sedimenten, Kruste und Ozean an submarinen, kalten Quellen. DGM-Mitteilungen 2/2011, Deutsche Gesellschaft für Meeresforschung.

#### ***Abstracts and contributions to international conferences***

- Eroglu S., **Scholz F.**, Salvattecchi R., Siebert C., Schneider R., Frank M. (2019) Re-evaluation of Fe speciation and Mo isotopes as paleo-redox proxies: Impact of post-depositional alteration. Goldschmidt Conference, Barcelona.
- Rapp I., Sieber M., **Scholz F.**, Hopwood M., Conway T., Xie R., Frank M., Vance D., Achterberg E. (2019) Iron sources and cycling in the Peruvian oxygen minimum zone using iron isotopes. Goldschmidt Conference, Barcelona.
- Platz A., **Scholz F.**, Dale A., Schlosser C. (2019) Sedimentary cycling and fluxes of bio-essential trace metals in the Peruvian oxygen minimum zone. Goldschmidt Conference, Barcelona.
- Geilert S., Hensen C., Doering C., Grasse P., Ehlert C., Liebetrau V., **Scholz F.**, Schmidt M., Frank M. (2019) Marine reverse silicate weathering traced by silicon isotopes. Goldschmidt Conference, Barcelona.
- Scholz F.**, Beil S., Wallmann K., Lehmann M.F., Flögel S., Holbourn A., Kuhnt W. (2018) Reconstructing oxygen minimum zone-type biogeochemical cycling in the geological record. GeoBonn (talk).
- Plass A., **Scholz F.**, Schlosser C., Dale A., Achterberg E., Sommer S. (2018) Benthic trace metal cycling on the Peruvian shelf. Goldschmidt Conference, Boston (talk).
- Eroglu S., **Scholz F.**, Siebert C., Salvattecchi R., Schneider R., Frank M. (2018) Mo redox proxy reflects different depositional conditions in Pacific oxygen minimum zones. Goldschmidt Conference, Boston (talk).

- Scholz F.**, Baum M., Siebert C., Eroglu S., Dale A.W., Sommer S. (2018) The impact of seawater inflow on molybdenum cycling in the intermittently euxinic Gotland Deep, Baltic Sea. Ocean Sciences Meeting, Portland (poster).
- Bruggmann S., **Scholz F.**, Kläbe R., Frei R. (2017) Chromium isotope cycling across the Peruvian oxygen minimum zone. Goldschmidt Conference, Paris (poster).
- Wu F., Owens J., Nielsen S., **Scholz F.**, Riedinger N., Person L., Lyons T.W. (2017) The vanadium isotope composition of marine sediments. Goldschmidt Conference, Paris (talk).
- Eroglu S., **Scholz F.**, Frank M., Siebert C. (2017) Early diagenesis of Mo: oxic versus anoxic sediments in the Gulf of California. Goldschmidt Conference, Paris (talk).
- Geilert S., Hensen C., Liebetrau V., **Scholz F.**, Frank M., Ehlert C. (2017) Si isotopes in sedimentary pore fluids trace early diagenetic reactions in the Guaymas Basin, Gulf of California. Goldschmidt Conference, Paris (talk).
- Hensen C., Geilert S., **Scholz F.**, Schmidt M., Liebetrau V., Kipfer R., Sarkar S., Doll M. (2017) Fluid geochemistry of cold seeps and hydrothermal vents in the Guaymas Basin, Gulf of California. EGU General Assembly, Vienna (talk).
- Siebert C., Frank M., **Scholz F.** (2015) Glacial-interglacial variations of molybdenum isotopes in the Peruvian oxygen minimum zone. AGU Fall Meeting, San Francisco (talk).
- Geilert S., Hensen C., Schmidt M., **Scholz F.**, Liebetrau V., Kipfer R., Lever M. (2015) Investigation of transform-type plate boundaries within the project FLOWS: Seep fluids and gases in the Guaymas Basin. Goldschmidt Conference, Prague (poster).
- Geersen J., Steeb P., Völker D., **Scholz F.**, Lange D., Behrmann J., Linke P., Treude T., Hensen C. (2014) Submarine hydrocarbon seepage in the wake of the 2010 Maule earthquake, Central Chile. AGU Fall Meeting, San Francisco (talk).
- Scholz F.**, McManus J., Mix A., Hensen C. and Schneider R. R. (2014) The impact of ocean deoxygenation on the marine iron cycle: Evidence from the paleo-record. Goldschmidt Conference, Sacramento (talk).
- Mazzini A., Svensen H., Hensen C., **Scholz F.**, Romeo G., Hadi S., Husein A., Planke S., Akhmanov G., Krüger M. (2014) The LUSI lab project: a platform for multidisciplinary experimental studies. EGU General Assembly, Vienna (poster).
- Nuzzo M., Tomonaga Y., Schimdt M., Pinero E., Valadares V., Reitz A., Gracia E., Terrinha P., **Scholz F.**, Silva S., Kaul N., Brennald M., Perea H., Hensen C. (2014) Impact of fluid circulation in old oceanic lithosphere on the seismicity of transform-type plate boundaries: The FLOWS project (EU-COST ES1301. EGU General Assembly, Vienna (talk).
- Scholz F.**, McManus J., Mix A., Hensen C., Schneider R. R. (2013) Glacial-interglacial variations in coupled thermocline ventilation and sedimentary iron delivery to the Peru upwelling system. AGU Fall Meeting, San Francisco (poster).
- Mazzini A., **Scholz F.**, Hensen C., Svensen H., Planke S. (2013) The mysterious Lusi eruption: the origin of water and future challenges. EGU General Assembly, Vienna (poster).
- Scholz F.**, Hensen C., Severmann S., Noffke A., Haley B., McManus J., Schneider R., Wallmann K. (2012) Spatial and temporal trends of iron and iron isotope cycling in the Peruvian oxygen minimum zone. Goldschmidt Conference, Montreal (talk).
- Steeb P., Linke P., **Scholz F.**, Schmidt M., Liebetrau V., Treude T. (2012) Anaerobic oxidation of methane in the Concepcion Methane Seep Area, Chilean continental margin. EGU General Assembly, Vienna (talk).
- Liebetrau V., Haeckel M., Eisenhauer A., **Scholz F.**, Hensen C., Reitz A. (2011) Paired Sr isotope ( $^{87}\text{Sr}/^{86}\text{Sr}$ ,  $\delta^{88}/^{86}\text{Sr}$ ) systematic of pore water profiles: A new perspective in marine weathering and seepage studies. Goldschmidt Conference 2011, Prague (talk).

- Scholz F.**, Hensen C., Noffke A., Rohde A., Wallmann K. (2011) Early diagenesis of trace metals (V, Mo, U) in sediments of the Peruvian upwelling area: response to oxygen dynamics in the water column. EGU General Assembly, Vienna (talk).
- Noffke A., Hensen C., Sommer S., Croot P., **Scholz F.**, Wallmann K. (2011) The benthic phosphorus and iron source across the Peruvian oxygen minimum zone. ASLO Aquatic Sciences Meeting, San Juan (talk).
- Scholz F.**, Hensen C., De Lange G.J., Haeckel M., Liebetrau V., Meixner A., Reitz A., Romer R.L. (2010) Lithium isotope systematics of deep-sourced pore fluids at continental margins. EGU General Assembly, Vienna (talk).
- Noffke A., Hensen C., Sommer S., **Scholz F.**, Mosch T., Wallmann K. (2010) Benthic fluxes of iron, phosphate and silicate across the Peruvian oxygen minimum zone. AGU Ocean Sciences Meeting, Portland (poster).
- Reitz A., Pape T., Schmidt M., Haeckel M., Berner U., **Scholz F.**, Liebetrau V., Aloisi G., Weise S., Wallmann K. (2010) Geochemical investigation of cold seeps fluids offshore Georgia, eastern Black Sea. 10th International Conference on Gas in Marine Sediments, Listvyanka (poster).
- Scholz F.**, Hensen C., Lu Z., Fehn U. (2009) Tracing organic and inorganic sources to deep-seated marine interstitial fluids: evidence from iodine and  $^{129}\text{I}/\text{I}$  systematics. AGU Fall Meeting, San Francisco (poster).
- Reitz A., **Scholz F.**, Nuzzo M., Hensen C., Liebetrau V., Elvert M., Hinrichs K. U., Schmidt M., Weise S. M., Shipboard Scientific Party (2008) Inorganic and organic investigation of two active mud volcanoes on the West Nile Delta (eastern Mediterranean Sea). 9th International Conference on Gas in Marine Sediments, Bremen (poster).
- Scholz F.**, Hensen C., Meixner A., Reitz A., Haeckel M., Romer R.L., De Lange G.J., Wallmann K. (2009) Lithium isotopes as a tracer for diagenetic processes in deep subsurface sediments. Goldschmidt Conference, Davos (poster).
- Reitz A., Liebetrau V., **Scholz F.**, Hensen C., Wallmann K., Haeckel M., Weise S. M. (2009) Multi-Isotope investigation to identify general characteristics of different cold vent systems. Goldschmidt Conference, Davos (poster).
- Scholz F.**, Hensen C., Haeckel M., Liebetrau V., Reitz A., Romer R.L. (2008) Origin and geochemical history of fluids in Gulf of Cadiz mud volcanoes: A multi-isotopic approach. EGU General Assembly, Vienna (poster).
- Scholz F.**, Neumann T. (2007) Trace element behavior in sulfidic pore waters of the Oder estuary, SW Baltic Sea. Goldschmidt Conference, Köln (poster).
- Neumann T., **Scholz F.**, Kramar U., Simon R., Mangold S. (2007) Distribution and redox status of Arsenic in framboidal pyrite from estuarine sediments. Goldschmidt Conference, Köln (talk).