Name	Rüdiger Stein
Position	Professor
Affiliation	Bremen University, MARUM
Higher education	 1990 Habilitation in Geology, University of Giessen, Germany, 1984 PhD in Geology, University of Kiel, Germany 1980 Diplom (M.S. degree) in Geology, University of Kiel, Germany 1977 Vordiplom (B.S. degree) in Geology, University of Clausthal-Zellerfeld, Germany,
Academic career	 2003 to present Professor "Paleoceanography of the Arctic Ocean", Bremen University, Germany 1991-2002 Privat-Dozent, Bremen University, Germany 1991-present (Senior) Research Scientist at the Alfred Wegener Institute for Polar and Marine Research, Bremerhaven, Germany 1986-1990 Assistant Professor in Geology, Giessen University 1984-1986 Research Scientist, Institute for Petroleum and Organic Geochemistry, KFA Jülich, Germany
Teaching activities	Bremen University M.Sc.: The role of high-latitude oceans in climate change B.Sc.: Geological field mapping
Research and development projects during the past 5 years	Quaternary/Neogene paleoclimate and paleoceanography of the Arctic Ocean and adjacent Eurasian continental margin; circum-Arctic ice-sheet history; history of Arctic sea-ice cover; paleoenvironment of the early (Mesozoic/Cenozoic) Arctic Ocean and its transition from Greenhouse to Icehouse conditions.
Significant publications during the past 5 years	 Selected publications from overall 51 (2012-2017) Stein, R., Fahl, K., Gierz, P., Niessen, F., Lohmann, G., 2017. Arctic Ocean sea ice cover during the penultimate glacial and the last interglacial. Nature Communications 8: doi: 10.1038/s41467-017-00552-1. Stein, R., Fahl. K., Schade, I., Manerung, A., Wassmuth, S., Niessen, F., Nam, SI., 2017. Holocene variability in sea ice cover, primary production, and Pacific-Water inflow and climate change in the Chukchi and East Siberian Seas (Arctic Ocean). Journal of Quaternary Science 32, 362-379. Stein, R., K. Fahl, Schreck, M., Knorr, G., Niessen, F., Forwick, M., Gebhardt, C., Jensen, L., Kaminski, M., Kopf, A., Matthiessen, J., Jokat, W., and Lohmann, G., 2016. Evidence for ice-free summers in the late Miocene central Arctic Ocean.

Name	Rüdiger Stein
	Hoff, U., Rasmussen, T.L., Stein, R., Ezat, M., Fahl, K., 2016. Sea ice and millennial scale climate change in the Nordic seas 90 ka BP to Present. Nature Communications 7:12247, DOI: 10.1038/ncomms12247.
	Xiao, X., Fahl, K., Müller, J., Stein, R. 2015. Sea-ice distribution in the modern Arctic Ocean: biomarker records from Trans-Arctic Ocean surface sediments. Geochim. Cosmochim. Acta 155, 16-29.
	Stein, R. and Fahl, K., 2013. Biomarker proxy IP_{25} shows potential for studying entire Quaternary Arctic sea-ice history. Org. Geochemistry 55, 98-102; doi: 10.1016/j.orggeochem.2012.11.005.
	Müller, J., Stein, R., 2014. High-resolution record of late glacial and deglacial sea ice changes in Fram Strait corroborates ice-ocean interactions during abrupt climate shifts. Earth Plan. Sci. Lett. 403, 446-455.
	Fahl, K. and Stein, R., 2012. Modern seasonal variability and deglacial/Holocene change of central Arctic Ocean sea-ice cover: New insights from biomarker proxy records. Earth Planetary Science Letters 351-352C , 123-133; doi:10.1016/j.epsl.2012.07.009.
Activities in scientific	• since 2012
organizations and	Member of Arctic in Rapid Transition (ART) Scientific Advisory Board
associations during the	• 2011-2015
past 5 years	Member of the Magellan-Plus Steering Committee
	• 2011-2013
Memberships without any	Member of the IODP Scientific Implementation and Policy Committee (SIPCOM)
function are not needed	• since 2007
	Member of the ECORD Science Support and Advisory Committee (ESSAC); ESSAC Chair 2009-2011
	• since 2001
	Editorial board of GeoMarine Letters
	since 1998
	Editorial board of International Journal of Earth Sciences