

Corporate CV

Christoph Kierdorf
PhD, Diploma

Associate Basin Modeller

PROFESSIONAL PROFILE

Petroleum System Analyst and Exploration Geologist with 17 years of experience in organic geochemistry, basin modelling and hydrocarbon exploration. Expertise in multiple geological settings and petroleum systems with a special focus on hydrocarbon source rock and petroleum migration. Worked with the identification, definition, resource assessment and risking of exploration projects at all scales, from basin evaluation and play analysis to prospect maturation and well evaluation. Participated in long-term regional projects, licensing round applications, data room evaluations and drilling activities. Proven track record of effective prospecting in various geological settings worldwide.

LANGUAGES

English, German, Norwegian, Danish, Basic French.

EDUCATION

2010	PhD in Earth Sciences University Bremen (Cum Laude) <i>Thesis project: Variability of organic carbon along the ice-covered polar continental margin East of Greenland</i>
2006	Diploma in Exploration Geology & Organic Geochemistry Universitat of Cologne

EMPLOYMENT	2019-today	Associate Basin Modeller at terractiva <i>Geological consultancy and training for O&G Exploration</i>
	2017-today	Consultant at Geoprovider AS <i>Geological consultancy and training for O&G Exploration</i>
	2014-2017	Petroleum System Analyst at Maersk Oil Explorationist and in-house petroleum system analysis consultant
	2006-2014	Principal Geologist at Statoil Explorationist and in-house petroleum system analysis consultant
	2002-2006	Research Scientist at Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research (AWI)

PROFESSIONAL AFFILIATIONS

Member, European Association of Geoscientists and Engineers.

PROFESSIONAL EXPERIENCE

Geological conceptualization and exploration in all types of tectonic-basin settings worldwide (North Sea, Norwegian Sea, Barents Sea, Danmarkshavn/Thetis Basin, offshore East Greenland, Jeanne d'Arc Basin, offshore Canada). Expert in petroleum system analysis with a strong background in sedimentology, biostratigraphy, structural geology, petrophysics and sequence stratigraphy. Performed regional seismic interpretation, play fairway and facies mapping.

Relevant Exploration Studies

Europe, Greenland and Eastern Mediterranean

- North Sea (Norwegian, British and Danish sectors): 2D and 3D basin modelling, migration modelling, salt modelling, geochemical well studies, regional geochemical studies; play analysis, prospect maturation, concession round contribution, data room evaluation and well evaluation.
- Norwegian Sea: 2D and 3D basin modelling, migration modelling, geochemical well studies, regional geochemical studies; prospect maturation, concession round contribution, data room evaluation and well evaluation.
- Barents Sea: 2D and 3D basin modelling, migration modelling, regional geochemical studies; play analysis, prospect maturation, concession round contribution and data room evaluation.
- Danmarkshavn/Thetis Basin, offshore East Greenland: 2D basin modelling, regional source rock evaluation; basin screening and play analysis.
- Herodotus and Levantine Basins: 2D and 3D basin modelling, regional source rock evaluation; prospect maturation, and concession round contribution.

Americas

- Jeanne d’Arc Basin, offshore Canada: 3D basin modelling, regional source rock evaluation; prospect maturation.
- Pelotas Basin, offshore Uruguay: 3D basin modelling, regional source rock evaluation; prospect maturation and data room evaluation.

Africa

- Murzuq and Kufra Basins, onshore Libya: 2D and 3D basin modelling, regional source rock evaluation; basin screening and prospect maturation.
- Offshore Northwest Africa, Morocco, Mauritania and Senegal: 2D and 3D basin modelling, regional source rock evaluation; basin screening, prospect maturation and data room evaluation.
- Transform Margin, Sierra Leone to Benin: 2D and 3D basin modelling, migration modelling, regional source rock evaluation, geochemical well studies; play analysis, prospect maturation, data room evaluation and discovery evaluation.
- Offshore Southwest Africa, Namibia and South Africa: 3D basin modelling, migration modelling, regional source rock evaluation, regional geochemical study; basin screening, play analysis, prospect maturation and data room evaluation.
- Offshore East Africa, Kenia, Tanzania, Moçambique, Madagascar: 3D basin modelling, migration modelling, regional source rock evaluation, regional geochemical study; basin screening, play analysis, prospect maturation and data room evaluation.
- African Interior Rift Basins, Karoo, Cretaceous and Tertiary Rifts: 2D and 3D basin modelling, regional source rock evaluation; basin screening, play analysis, prospect maturation, concession round contribution and data room evaluation.

Asia

- Seram Through, Indonesia: 1D basin modelling, regional source rock evaluation; prospect assessment and concession round contribution.

COMPUTER SOFTWARE EXPERTISE

Basin Modelling	Zetaware Genesis, Kinex, and Trinity 3D Schlumberger PetroMod Landmark Permedia MPath
Organic Geochemistry	IGI Ltd. p:IGI
Seismic Interpretation	Schlumberger Petrel
Data analytics and visualisation	TIBCO Spotfire, Grapher
GIS	ESRI ArcGIS, QGIS
Graphics	Adobe Illustrator, Photoshop and InDesign, Luminar
Office and collaboration	Microsoft Office, SharePoint, MindManager, Xait Porter
Operating Systems	Windows, Linux, Mac OS

TEACHING EXPERIENCE

- Multiple in-house training courses on Petroleum System Analysis (Statoil and Maersk Oil)
- Introduction to PetroMod, Statoil in-house course, 2009/2011

SOFTWARE DEVELOPEMENT

Input into Move software development; model building functionality, Trishear 3D, Stress Analysis, digital field-mapping.

FIELD EXPERIENCE

2012	Colorado Plateau, US (Deformation of clastic sediments; Tectonics)
2007	Eastern Pyrenees, Spain (Eocene Source Rock Study; Hydrocarbon exploration)
2006	Clare Basin, Western Ireland (Advanced Deep-Water Field Seminar; Field analogues)
2000 - 2003	<i>RV Polarstern</i> expeditions to the Arctic Ocean and East Greenland (Marine Geological Sampling and Seismic Acquisition)

PROFESSIONAL DEVELOPMENT

- PRINCE2® Project Management Course – Foundation and Practitioner Certification, BCS – The Chartered Institute for IT, 2017.
- Statoil and Maersk Oil in-house courses including: Reservoir and Formation Evaluation, Seismic Imaging and Interpretation, Prospect Evaluation, Basin and Play Evaluation, etc.
- Advanced Geochemistry Course, IGI Ltd., Instructor: Paul Farrimond, 2013.
- PVT in Exploration, GeoS4, Instructor: Rolando di Primio, 2009.
- Practical Salt Tectonics, Instructor: Mark Rowan, 2008.
- Subsurface Geological Analysis of Well Logs, Rider-French Consulting Ltd., Instructor: Malcom Rider, 2007.
- Exploration Economics, Risk Analysis & Prospect Evaluation, Rose & Associates, 2006.

SELECTED PUBLICATIONS

Kierdorf, C., 2006. Variability of organic carbon along the ice-covered polar continental margin of East Greenland. Fachbereich Geowissenschaften. Universität Bremen, Bremen.