

RESUME Dr. Walter L. Kuehnlein

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Born 1959	<ul style="list-style-type: none"> Nationality: German Languages: German, English
Involvement	<ul style="list-style-type: none"> Past Chairman of ATC 2018, www.arctictechnologyconference.org Chairman of the Board of Directors of the German Association for Marine Technology (GMT), www.marine-technology.eu (since 2008) Chair of Polar and Arctic Sciences and Technology Symposium of OMAE-Conferences, www.omae.org since 2002) Advisor Offshore for international magazine Ship&Offshore, www.shipandoffshore.net (since 2009) Member of the German Offshore Committee of DNV-GL, www.dnvgl.com (since 2005) Lectureship: "Ice Engineering" at Hamburg University of Technology, www.tuhh.de (since 2013)
Offshore Certificates	<ul style="list-style-type: none"> BOSIET / CA-EBS MIST / Vantage H2S
2008 till present	<p>Managing Director</p>  <p>sea2ice Ltd. & Co. KG Am Kaiserkai 69, 20457 Hamburg, Germany - www.sea2ice.com</p>
2017	<ul style="list-style-type: none"> Consulting: Concept for operating in the Arctic Consulting: Exploration concept for ice covered waters Workshop Facilitator: Ice engineering Marine Warranty Surveyor: Rig move Consulting: Offshore wind parks in part-time ice-covered waters Workshop Facilitator: Advanced offshore rig moving Workshop Facilitator: Design philosophies for Arctic approach Installation Manager for jacket installation
2016	<ul style="list-style-type: none"> Workshop Facilitator: Advanced offshore rig moving Chairman Arctic Technology Conference ATC 2016, in St. John's, Newfoundland, Canada Consulting: Offshore wind parks in part-time ice-covered waters Marine Warranty Surveyor: Rig move in North Sea Consulting: Structure in ice covered waters Workshop Facilitator: Advanced approach to the Arctic Workshop Facilitator: Design philosophies for Arctic approach Consulting: Arctic loading terminal Workshop Facilitator: Future (of) Arctic gas projects
2015	<ul style="list-style-type: none"> Workshop Facilitator: Advanced offshore rig moving Consulting: Arctic loading terminal Consulting: Design philosophy for Arctic approach Marine Warranty Surveyor: Rig move in North Sea Review of evacuation / rescue concept Chair of Ian Jordaan Honoring Symposium on Ice Engineering @ OMAE 2015 Review of Arctic operations concept Consulting: Mooring analysis for drilling rig Rig Move with Parker Rig 257 (<i>Sunkar</i>) in the North Caspian Sea

	<ul style="list-style-type: none"> • Vice Chairman of ATC 2015 (Arctic Technology Conference) • Consulting: Rig Move Procedure, North Caspian Sea • Co-organizer of 3rd Business Offshore Conference in Hamburg • Consulting: General approach to arctic waters • Consulting: Offshore wind park in part-time ice covered waters • Consulting: Project approach for arctic regions
2014	<ul style="list-style-type: none"> • Chairman at 10th Arctic Oil&Gas Conference in Oslo • Consulting: Offshore wind project in part-time ice covered waters • Consulting: Arctic drilling rig • Installation Manager for jacket installation • Consulting: Arctic loading terminal • Consulting: Ice Management - philosophies and strategies • Workshop Facilitator: Concepts and philosophies for ice covered waters • Workshop Facilitator: Arctic operational concept for an arctic offshore installation • Consulting: Supervision of ice model tests • Consulting: Offshore installation concept • Member of ATC 2014 Committee (Arctic Technology Conference) • Consulting: Arctic offshore operation concept • Marine Warranty Surveyor: Rig move in North Sea
2007 - 2013	Associate Editor for Journal of Offshore Mechanics and Arctic Engineering, an ASME Journal (limited to 2 x 3 years)
2013	<ul style="list-style-type: none"> • Consulting: Supervision of ice model tests • Chairman at 9th Arctic Oil&Gas Conference in Oslo • Rig Move with Parker Rig 257 (<i>Sunkar</i>) in the North Caspian Sea • Installation Coordinator for relocation of an offshore gas production platform (North Sea) • Installation Manager for offshore wind (MOAB) transformer substation (North Sea) • Study: Exploration concept in arctic waters • Chair at 2nd Business Offshore Conference in Hamburg • Consulting: Ocean renewable energy converter
2012	<ul style="list-style-type: none"> • Installation Manager for offshore wind (MOAB) transformer substation • Member of ATC 2012 Committee (Arctic Technology Conference) • Technical Chair of OMAE2012 in Rio de Janeiro • Development of installation concept for offshore wind park • Consulting and design review of offshore wind park concept • Rig Move with Parker Rig 257 (<i>Sunkar</i>) in the North Caspian Sea • Consulting: Rig move procedure • Consulting: Drilling concept development for North Caspian
2005 - 2011	Lectureship: "Ocean Engineering" at the University of Duisburg-Essen, Institute of Ship Technology, Ocean Engineering and Transport Systems
2011	<ul style="list-style-type: none"> • Design review: Offshore wind park • Chair at 1st Business Offshore Conference in Hamburg • Chairman: 7th Arctic Oil & Gas Conference in Oslo • Marine Rep. for Jackup Rig Move, North Sea • Chairman of Ocean, Offshore and Arctic Engineering (OOAE) Division of ASME • Design review: Offshore wind installation vessel • Workshop: Design philosophies for offshore structures in ice, special tailor made, operational optimized concepts • Design review: Offshore concept for ice covered waters • ASME Short Courses: "Ice Engineering" • Rig Move with Parker Rig 257 (<i>Sunkar</i>) in the North Caspian Sea: responsible for de-grounding and grounding operation • Consulting: Rig move procedure • Consulting: Offshore project North Caspian Sea

	<ul style="list-style-type: none"> Chairman: 2nd Arctic Oil & Gas North America conference in Houston, Texas Consulting: Offshore wind energy converter in (part time) ice covered seas Arctic Technology Conference, ATC 2011, in Houston, member of Technical Program Committee
2010	<ul style="list-style-type: none"> Consulting: Conceptual study for an operational optimized offshore structure for ice covered waters Company Courses: "Ice Engineering" ASME Short Course: "Ice Engineering" (8h) Rig Moves with Parker Rig 257 (<i>Sunkar</i>) in the North Caspian Sea: responsible for de-ballasting/de-grounding and ballasting/grounding operation Consulting: Rig move procedures
2009	<ul style="list-style-type: none"> Consulting: Offshore structures in ice – operational optimized concepts Workshop: Design philosophies for offshore structures in ice, special tailor made concepts, operational optimized for each location –increasing safety and decreasing costs Consulting: Offshore structures for the North Caspian Sea Consulting: Mooring analysis and mooring layout of floating marina jetties ASME Short Course: "Ice Engineering" (8h) Rig Moves with Parker Rig 257 (<i>Sunkar</i>) in the North Caspian Sea: responsible for all de-ballasting/de-grounding and ballasting/grounding operations Consulting: Rig move procedures Consulting: Jack-up drilling rig for the North Caspian Sea
2008	<ul style="list-style-type: none"> Special course: Design philosophies for offshore structures in ice –increasing safety and reduced costs Consulting: Offshore structures in ice: Consulting: Evaluation of ice conditions and consequences for offshore wind energy converters Rig Moves with Parker Rig 257 (<i>Sunkar</i>) in the North Caspian Sea: responsible for de-ballasting/de-grounding and ballasting/grounding operation Consulting: Rig move procedures
2006	Chairman of Ocean, Offshore and Arctic Engineering Conference (OMAE 2006) in Hamburg, Germany, www.OMAE2006.com
2001 - 2009	<p>Hamburg Ship Model Basin Director and Head of the Ice & Offshore Department</p> <ul style="list-style-type: none"> Ice model tests Leader of innumerable industrial projects (offshore structures, vessels and operations in ice and open waters) Ice and sea trials Ice barriers for shallow waters Leader of the EU-research project STRICE (www.strice.org) Offshore and Seakeeping Tests Research Projects ROLL-S and SinSee: capsizing model tests with totally freely running models including optical registration of all degrees of freedom Model tests under special sea conditions, like freak waves, etc. Manoeuvring tests <p>Special projects Parker Drilling Company, North Caspian Project, all Rig Moves with Parker Rig 257 (<i>Sunkar</i>) in the North Caspian Sea</p> <ul style="list-style-type: none"> Responsible for de-grounding and grounding operation during rig moves Consulting: generation of rig move procedures
1997 - 2001	IMPac Offshore Engineering GmbH, Hamburg Project Manager
2000	Parker Drilling Company, North Caspian Project <ul style="list-style-type: none"> Stability analysis of Rig 257 Statistic: environmental loads

	<ul style="list-style-type: none"> • Responsible for de-ballasting and ballasting operation during rig moves • Weight and ballast calculations • Generation of Rig Move Procedures • Modification of rescue systems <p>OKIOC, Drilling Operations in the North Caspian</p> <ul style="list-style-type: none"> • Alternative drilling concepts • Hybrid drilling concepts
1999	<p>OKIOC (Offshore Kazakhstan International Operating Company), Drilling Operations in the North Caspian</p> <ul style="list-style-type: none"> • Conceptual studies for drilling rigs to be used in the North Caspian • Ice force analysis for winter operations <p>Parker Drilling Company, North Caspian Project</p> <ul style="list-style-type: none"> • Verification and evaluation of original design philosophies • Adjustment of full-scale measurement system • Tow-out and Installation Procedures • Operation manuals • Floating stability, ballast- and weight-calculations • Dead weight survey • Motion analysis of Parker Rig 257
1998-1999	<p>Parker Drilling Company, Astrakhan, Russia, Rig Upgrade Manager, North Caspian Project</p> <p>Fully responsible for upgrade construction of Parker Rig 257 (<i>Sunkar</i>)</p>
1998	<p>Parker Drilling Company, New Iberia, USA Engineering Manager, North Caspian Project</p> <p>Responsible for engineering of the ice classed drilling barge rig: Parker Rig 257</p> <ul style="list-style-type: none"> • Design philosophy • Safety philosophy • Environmental protection philosophy • Detail engineering of drilling rig • Connecting procedure (connecting in floating mode) • Safety analyses • Reliability, availability and maintenance analyses (RAM) • Negotiations with client
1997	<p>OKIOC (Offshore Kazakhstan International Operating Company) Drilling Operations in the North Caspian</p> <ul style="list-style-type: none"> • Development of global drilling concept • Overall stability concept for drilling rig under special consideration of the environmental loads: waves, wind, current, and ice forces • Basic engineering of drilling barge • Development of full-scale measurement system for the determination of ice, wave, wind and current forces • Design of steel pads to be used as foundation for drilling rigs • Ice force studies for drilling rigs in the North Caspian
1986 - 1997	Berlin University of Technology
1995 - 1997	<p>Senior Research Engineer Project: Optimization of vertical wave absorbers</p> <ul style="list-style-type: none"> • Generation of extreme (nonlinear) transient wave packets (freak waves) • Seakeeping tests with (nonlinear) transient wave trains • Numerical modelling of vertical wave absorbers
1996	Special project: hydrodynamic investigations of submerged bodies
1995	Special project: hydrodynamic investigations of oil recovery vessels
1992 - 1995	<p>Senior Research Engineer Project: Optimization of seakeeping tests</p> <ul style="list-style-type: none"> • Generation of problem oriented transient wave packets • Seakeeping tests with self-propelled models (oblique waves)

	<ul style="list-style-type: none"> • Seakeeping tests with semi submersibles
1994	<ul style="list-style-type: none"> • Hydrodynamic optimization of coupled systems • Conception of sidewall wave absorbers for the wave tank of the University of New Orleans
1993	<ul style="list-style-type: none"> • Analysis of ship wave systems (fast catamarans) Berlin and Trondheim, Norway, Supervisor of the Full Scale Tests in Norway • Hydrodynamic investigations of oil recovery vessels
1992	Special project: inauguration of the wave maker system at the Technical University of Istanbul
1989 - 1991	Research Engineer Project: Wave damping of oil / chemical spill recovery vessels Patent: Wave attenuation systems
1986 - 1989	Research Project Project: Laser-Doppler-Anemometer (LDA) measurements in waves
Education:	
1997	Doctorate: Dr.-Ing. (Ph.D.) Institute of Naval Architecture, Marine and Ocean Engineering Faculty of Transport and Communications, and Applied Mechanics, Berlin University of Technology Thesis: "Seakeeping Tests with Transient Wave Packets" (Summa cum laude, Weinblum-Award, Werner-von-Siemens-Award)
1983 - 1989	Study: Civil and Hydraulic Engineer, Berlin University of Technology Master Thesis: "Hydrodynamic Optimization of a Circular Shaped Wave Breaker" (Dipl.-Ing. / Master)