

RESUME for Dr. Walter L. Kuehnlein

Courses:	<ul style="list-style-type: none"> • BOSET-Training • H2S-Training
Experience:	<ul style="list-style-type: none"> • Chairman of the Board of the German Association for Marine Technology (GMT) (www.marine-technology.eu) • ASME Short Courses: "Ice Engineering" (example: http://www.asme-ipti.org/ice-engineering/) • Lectureship: "Ocean Engineering" at the University of Duisburg-Essen, Institute of Ship Technology, Ocean Engineering and Transport Systems • Technical Program Chair OMAE 2012 in Brazil • Chair of Polar and Arctic Sciences and Technology Symposium of OMAE-Conferences www.omae2012.com • Advisor (offshore) for international magazine Ship&Offshore (www.shipandoffshore.net)
2008 to present	
2012	<ul style="list-style-type: none"> • Support: Concept development for North Caspian Sea
2011	<ul style="list-style-type: none"> • Chair at 1st Business Offshore Conference in Hamburg • Design review: offshore wind park • Chairman: 7th Arctic Oil & Gas Conference in Oslo • Marine Rep. for Jackup Rig Move, North Sea • 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 • Consulting: offshore project North Caspian Sea • 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 - 2011	Chairman of Ocean, Offshore and Arctic Engineering (OOAE) Division of ASME (www.ooae.org)
2010	<ul style="list-style-type: none"> • Consulting: conceptual study for an operational optimized offshore structure for ice covered waters

	<ul style="list-style-type: none"> • 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
<p>2009</p>	<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
<p>2008</p>	<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
<p>2001 - 2009</p>	<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 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. • Maneuvering 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
2006	<p>Chairman of Ocean, Offshore and Arctic Engineering Conference (OMAE 2006) in Hamburg, Germany www.OMAE2006.com</p>
1997 - 2001	IMPac Offshore Engineering GmbH, Hamburg Project Manager
2000	<p>Parker Drilling Company, North Caspian Project</p> <ul style="list-style-type: none"> • Stability analysis of Rig 257 • Statistic: environmental loads • 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 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 Responsible for engineering of the ice classed drilling bargerig: Parker Rig 257</p> <ul style="list-style-type: none"> • Design philosophy • Safety philosophy • Environmental protection philosophy • Detail engineering of drilling rig

	<ul style="list-style-type: none"> • 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 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 modeling 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) • 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	<p>Research Engineer Project: Wave damping of oil / chemical spill recovery vessels Patent: Wave attenuation systems</p>
1986 - 1989	<p>Research Project Project: Laser-Doppler-Anemometer (LDA) measurements in waves</p>

Born: 1959	nationality: German languages: German, English
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)
1979 - 1982	Study: Civil Engineering, Technical University Nuremberg