

A Geological, Geophysical and Hydrographic Survey Consultancy

MATTHEW T. ZUNKER CPG, PG

OPERATIONS DIRECTOR

725 W Alder, Suite 12 Missoula, Montana 59802 USA Phone: +1(406)721-1599 Email: <u>mz@geomarinetech.com</u>

SUMMARY OF QUALIFICATIONS

- Professional Geologist certified by the AIPG (#11769) and the State of Alaska (#103104).
- Knowledgeable of a broad array of theoretical and applied geoscientific disciplines, esp. sedimentary processes, geomorphology and geophysics.
- Analyst and interpreter of high-resolution geophysical data, esp. side-scan sonar, shallow-penetration acoustic systems (e.g. subbottom profiler and single-beam echosounder), magnetometer, navigation, multibeam swath bathymetry, and (P)CPT(u).
- Data integrator and technical writer of Desktop Studies (DTS) and Marine Survey Reports (MSR) for a wide range of submarine installation and hazard-identification projects.
- Proficient with the following software: Chesapeake Technology SonarWeb/SonarWizMap, Seismic Micro Technology Kingdom Suite, AutoCAD Land Desktop and Raster Design, Trimble SketchUp, Blue Marble Geographics Global Mapper, Golden Software Surfer and Grapher, Interactive Visual Systems Fledermaus, Adobe Creative Suite, CorelDRAW, Microsoft Office Suite and GMT Utilities Suite.
- Experienced with drill rig and geotechnical engineering operations.

PROFESSIONAL EXPERIENCE				
2008-P	GEO-MARINE TECHNOLOGY, INC. Missoula, Montana	Position: Sr. Geologist / Operations Director		
 Project manager; lead technical writer; senior analyst of geophysical data for hazards assessment, geologic interpretation and scientific reporting; and director of in-house operations, training and bidding 				
2006-10	SUSSEX SCHOOL Missoula, Montana	Position: Math and Social Studies Instructor		
 Created and taught middle school mathematics curricula, including: algebraic systems, data interpretation and modeling, and real-world applications 				
2004-08	THE UNIVERSITY OF MONTANA Missoula, Montana	Position: Adjunct Instructor		
 Instructed Introductory and Environmental Geology and Natural Hazards courses. 				
2002-05	5 THE UNIVERSITY OF MONTANA Missoula, Montana	Position: Teacher Assistant		
 Assisted the teaching of Physical Science for education majors and the Geology Lab 				
2000-01	Ft. Collins, Colorado	Position: Field Geologist		
	Logged drill cores, assessed rock/soil samples, and construc commercial, residential and civil developments	ted subsurface and plan geologic interpretations for		

	PROJECT EXI	PERIENCE
2016	MARINE SURVEY REPORTS SHDAS, ORVAL Inshore, DEPRS	Project: Submarine Cables and Pipelines
	Tankill Law Des. Bakakath Oswastry Des. Ass	Project: Marine Installations
	Tophill Low Res., Rehoboth, Oswestry Res., Aca Project manager, load or contributing writer and data a	
	Project manager, lead or contributing writer and data a	
2015	MARINE SURVEY REPORTS GTMO SFOC	Project: Submarine Cables
	March anto Drida o	Project: Marine Installations
	Merchants Bridge	analyst
	Project manager, lead or contributing writer and data a	
	DESKTOP STUDIES ORVAL	Project: Submarine Cables
•	Project manager, lead writer and data analyst	
2014	MARINE SURVEY REPORTS WCGT, Virginia VOWTAP, PRGT	Project: Submarine Cables and Pipelines
		Project: Marine Installations
	AWISS, Colorado River Reservoir, Siesta Key Sar	nd Prospect
	DESKTOP STUDIES GBOOC	Project: Submarine Cables
•	Project manager, lead or contributing writer and data a	analyst
2013	MARINE SURVEY REPORTS PRGT, PCCS Seg 1, SSCS Branch 1, MonIta HVDC	Project: Submarine Cables and Pipelines C Nearshore, BLAST
		Project: Marine Installations
	Matagorda Shipping Channel, Krum Bay Berthiı Facility, Flamenco Bay Port Facility	ng Area, Bolongo Bay Wind Farm, Obispito Bay Port
•	Project manager, lead or contributing writer and data a	analyst
2012	MARINE SURVEY REPORTS Block 22, TPKM-3	Project: Submarine Cables and Pipelines
		Project: Marine Installations
	Manistee River Dredge	
	DESKTOP STUDIES Block 22	Project: Pipeline
•	Project manager, lead writer and contributing data ana	lyst (MSR); project manager and lead writer (DTS)
2011	MARINE SURVEY REPORTS Haiti Cable, viNGN, Maple, Juniper, Asia Subsea	Project: Submarine Cables and Pipelines
	DESKTOP STUDIES TPKM-3, Fibralink Ext., Ufinet, viNGN, Maple	Project: Submarine Cables
•	Project manager, lead writer and contributing data ana	lyst (MSR): project manager and lead writer (DTS)
2010		
2010	MARINE SURVEY REPORTS AdOCS-2, Loran-Manatee, RSN	Project: Submarine Cables
	St. Clair Divor Lake Human	Project: Marine Installations
	St. Clair River, Lake Huron DESKTOP STUDIES	Project: Submarine Cables and Pipelines

•	Lead and contributing writer and contributing data analyst (MSR); project manager and lead writer (DTS)		
2009	MARINE SURVEY REPORTS SAIT, Pelican, Toucan	Project: Submarine Cables and Pipelines	
	DESKTOP STUDIES SAIT, SAIT Panama Ext., CSNet	Project: Submarine Cables	
•	Lead and contributing writer and contributing data analyst (MSR); project manager and lead writer (DTS)		
2008	MARINE SURVEY REPORTS Zandolie, Whiptail, Iguana	Project: Pipelines	
	DESKTOP STUDIES Unity	Project: Submarine Cables	
•	Contributing writer and data analyst (MSR); cont	tributing writer (DTS)	
	ED	UCATION	
ABD	THE UNIVERSITY OF MONTANA Missoula, Montana	Program: PhD Candidate, Geoscience	
•	Dissertation topic focused on the affect of lee vortex stability on the morphology of ripples in transitional and three-dimensional flow. Earned a 4.0 GPA and received an NSF-funded doctoral fellowship from the Center for Learning and Teaching (West) to understand and mitigate the underrepresentation of American Indians in math and science.		
2010	THE UNIVERSITY OF MONTANA Missoula, Montana	Program: MS, Geoscience	
•	Thesis topic focused on the patterns and processes of unidirectional current ripples at Netarts Bay, Oregon. 4.0 GPA.		
1999	THE UNIVERSITY OF MONTANA Missoula, Montana	Program: BA, Geology	
•	Senior thesis focused on disambiguating descriptive and genetic sedimentary rock classifications. 3.8 GPA and graduated with High Honors on the Western Undergraduate Exchange scholarship.		
1996-7	ARAPAHOE COMMUNITY COLLEGE Littleton, Colorado	Program: Core Courses	
1994	RED ROCKS COMMUNITY COLLEGE Arvada, Colorado	Program: Core Courses	
	Re	ISEARCH	
2016	IN PREPARATION Journal of Sedimentology	Project: Paper	
•	The Patterns and Processes of Current Ripples on the Tidal Sand Flats of Netarts Bay, Oregon		
2015	IN PREPARATION Journal of Curriculum Theorizing	Project: Paper	
•	A Systems Theory Perspective on Culture, Education	tion and Blackfoot Science Pedagogy	
2011	PRESENTED GSA Convention, Minneapolis, MN	Project: Poster & Abstract	
•	Zunker, M. The Role of Lee Vortices in the Patterns and Processes of Current Ripples, Netarts Bay, Oregon		
2010	PUBLISHED Mathematics Teacher	Project: Article	
•	Winston, B. and M. Zunker. How Long Does It Ta	ke a Person to Sober Up? Some Mathematics and Science of DUI	

2009	PROFESSIONAL Sussex School, Missoula, MT The mathematics of the Great Pyramid of Gi	Project: Curriculum
2008	PROFESSIONAL Sussex School, Missoula, MT The mathematics and science of DUI	Project: Curriculum
2007-9		Project: Talks C. and Salt Lake City, UT; MCTM Conference, Belgrade, MT cs and Science of DUI
2005	PUBLISHED GSA Convention, Salt Lake City, UT	Project: Abstract
•	Zunker, M. and D. Winston. Three Dimensional Flow Ripple Patterns and Their Inferred Flow Dynamics on Tidal Sand Flats, Netarts Bay, Oregon	
2003	PRESENTED Belt Symposium, Missoula, MT	Project: Poster
•	Zunker, M., R. Ambrose and B. Pallister. A Pc Supergroup	linspastic Restoration of Selected Formations in the Belt-Purcell