

U. S. Navy Underwater Construction Teams



Underwater Construction: Enabling Freedom of Action Across the Sea to Land Interface, Where It Matters, When It Matters.

LCDR Michael Dobling, PE
Commanding Officer
Underwater Construction Team TWO
14 May 2019



Seabees

We build – We fight – We Dive





U. S. Navy Underwater Construction Teams



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Why do we exist?

To enable freedom of action across the sea to land interface, where it matters, when it matters.



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U. S. Navy Underwater Construction Teams

Who are we?

A specialized team of officers and enlisted who are highly trained in waterfront and underwater construction.

- Enlisted Underwater Construction Technicians with a Naval Construction Force background and become U.S. Navy divers.
 - 120 Techs (U.S. Navy wide inventory)
- Ocean Facility Program (OFP) Officers who are Professional Engineers and have a Masters in Ocean Engineering.
 - 65 OFP Officers (U.S. Navy wide inventory)



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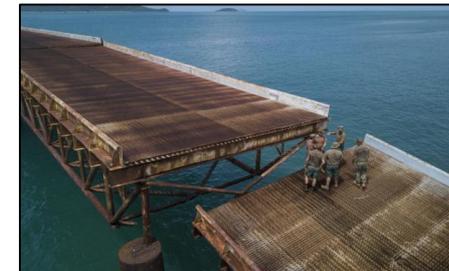
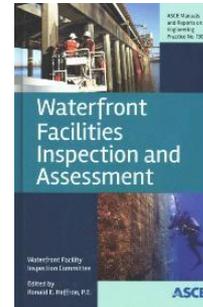
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What do we do?

- Maritime Infrastructure Inspections and Assessments
 - Divers trained in ASCE industry standard topside and underwater inspection procedures
 - Dive certified Professional Engineers on staff with larger reach back support capability
- Hydrographic and Bathymetric Surveys (single beam, side scan)
- Maritime Infrastructure Conventional and Expedient Repairs
 - Piers (concrete, steel, timber)
 - Wharves and Quay Walls
 - Fleet Moorings
 - Undersea Pipelines & Cabling
- Expeditionary Light Salvage (i.e. vehicles, shipping containers, etc.)
- Bridge Inspection and Repair



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Where do we Operate?



Missions/Environments

- Desert
- Arctic/Ice diving
- Tropical
- Inland, nearshore & offshore
- Contaminated water
- Non-Permissive
- Disaster response
- Contingency operations
- Major combat operations
- Missions of state
- Partner capacity building
- Civ-Mil engagements



Operations Forward

- Indo-Asia-Pacific
 - Oceania (Palau, FSM, RMI)
 - South East Asia (Philippines, Thailand)
 - North East Asia (Japan, South Korea)
- Europe
 - Baltic States
 - Ukraine
- Africa
 - Gulf of Guinea
 - Horn of Africa
- Caribbean
 - Cuba
 - Puerto Rico



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What do we Dive?

- Self Contained Underwater Breathing Apparatus (SCUBA)



- Surface Supplied
- Transportable Recompression Chamber Systems



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How we do it?

- Underwater Power Tools (drill, grinder, chainsaw, jack hammer)
- Underwater Cutting and Welding
- Precision Demolition
- Ultrasonic Thickness Testing / Bathycorrometer
- Rapid Penetration Testing
- Single Beam and Side Scan
- Navy Dive Computer



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What other Engineer Divers are out there?

US Inventory

- UCT ONE, U.S. Navy (56)
- UCT TWO, U.S. Navy (56)
- 5 U.S. Army Engineer Dive Detachments, (120)



Allied Inventory

- Royal Thai Navy UCT (13)
- Philippine Navy UCT (30)
- Republic of Korea Navy UCT (15)
- Australian Army Engineer Divers (20)
- UK Ministry of Defense Salvage and Maritime Operations Divers
- I am sure I am missing some, a good reason for this conference!



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Recently Added Technology



- Diver Underwater Camera System (DUCS)
- Remote Controlled Single Beam Platform



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Where we are going!

- Unmanned Maritime Assessment Systems

- UUVs
- USVs
- ROVs
- UAVs

Family of systems with integrated sensors, common interface and tailored software package



- More networked dive computer

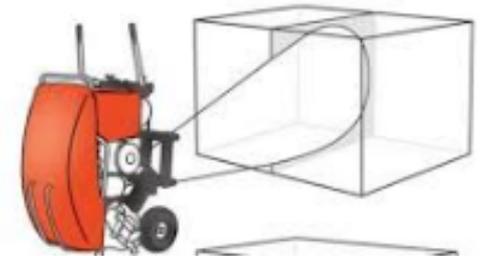
- Extended bottom time
- Optimization of work and data collection
- Increased safety & easier accountability

- Modernized Underwater Tools and Materials

- Battery operated and powder actuated tools
- Unmanned tools
- Smart tools

- Pre-Engineered Waterfront Infrastructure Solutions

- Pre-packaged repair kits
- Modular, lightweight facilities “in a box”
- Analytic engineering software for damage assessment



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U. S. Navy Underwater Construction Teams

Points of Contact



- **Commanding Officer:**
 - LCDR Jimmy Johncock, PE
 - Office: 757-462- 3980
 - Email: james.johncock@navy.mil
- **Command Master Chief:**
 - EQCM (SCW/MDV) Steven Walters
 - Office: 757-544-7098
 - Email: steven.walters@navy.mil
- **Executive Officer:**
 - LT Paul Manglona, PE
 - Office: 757-462- 3979
 - Email: Paul.manglona@navy.mil
- **Operations Officer:**
 - LT Spencer Bull, PE
 - Office: 757-462-3979
 - Email: spencer.j.bull1@navy.mil



- **Commanding Officer:**
 - LCDR Michael Dabling, PE
 - Office: 805-982-3247
 - Email: michael.dabling@navy.mil
- **Command Master Chief:**
 - EQCM (SCW/MDV) Emory Cole
 - Office: 805-982-3240
 - Email: emory.cole@navy.mil
- **Executive Officer:**
 - LT RJ Uglow, PE
 - Office: 805-982-3248
 - Email: ronald.uglow@navy.mil
- **Operations Officer:**
 - CWO4 Chris Vollmer
 - Office: 805-982-3245
 - Email: christopher.vollmer@navy.mil

