



theTrend

Issue 2
2020

What's Trending Now at Trendsetter Engineering

Trendsetter's Rentals and Services division continues to grow by leaps and bounds, continuing a trend of providing value added solutions, equipment and services for offshore operations. With a large inventory of subsea rental equipment including Wellhead Connectors, Blowout Preventers, Subsea Accumulator Modules and ROV ancillary hardware, Trendsetter's ability to deliver quickly is well known.

On the intervention side, the addition of STIM-II to our fleet will allow us to respond to the aggressive timelines required by Operators to maintain well productivity and add value to their bottom line. Our teams' focus on reliable and simple designs has been the key to Trendsetter's intervention success with STIM as well as our other specialized rental equipment solutions. We will be building upon this success in 2020 with the impending introduction of our revolutionary new TRIDENT™ modular intervention systems.

Trendsetter has long established themselves as the 'go-to' for solving unconventional problems in Deepwater. With experience in all aspects of subsea operations, a vast inventory of equipment and highly trained technicians, we are able to develop and quickly turnaround creative solutions for our clients. This results in reduced downtime and added value to their bottom line, which is of particular importance in our industry now more than ever.

OIL AND GAS INDUSTRY INNOVATORS JOIN PHYSICIAN TO PROVIDE PROTECTION FOR HEALTHCARE WORKERS



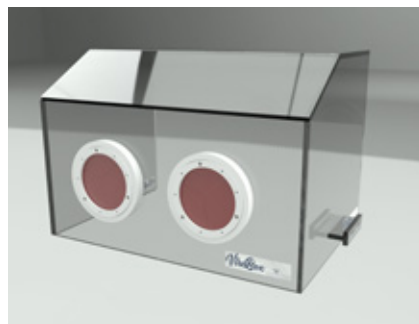
The Virabox will benefit healthcare workers and patients across the country.

HOUSTON - APRIL 9, 2020 - Trendsetter Vulcan Offshore (TVO), a developer of innovative solutions for the offshore industry, has collaborated with local pulmonary and critical care physician Luis E. Chug, MD, to introduce personal protective equipment (PPE) for healthcare workers fighting the coronavirus pandemic. The patent pending Virabox is an impervious transparent enclosure that is placed over patients to shield healthcare workers from potential contamination by the coronavirus.

"TVO has a history of solving difficult offshore safety challenges, but before one of our employees introduced us to Dr. Chug, we had never considered problem-solving for the medical field," says TVO CEO Jim Maher. "When the opportunity presented itself, we quickly realized that we could apply our team's ingenuity and creativity to help Dr. Chug transform his concept into a valuable piece of PPE. We are immensely proud of helping to fast-track the development of a solution that could save lives."

Dr. Chug recognized the need for better protective equipment when he started a rotation in intensive care in March 2020 and faced the challenge of providing specialized care in an environment where preventing exposure to the coronavirus is a matter of life and death for compromised patients and potentially for frontline healthcare providers.

"One of the biggest challenges in curbing the spread of this virus is that it is communicable in droplets, but during certain manipulation of the airway (or airway



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ANOTHER WIN FOR TRENDSETTER WITH SUCCESSFUL COMPLETION OF LATEST SUBSEA INTERVENTION PROJECT

Trendsetter is pleased to announce the completion of another successful deployment of our hydraulic intervention system known as STIM (Subsea Tree Injection Manifold).

The system was recently deployed for a major deepwater operator in the Gulf of Mexico to conduct flowline flushing operations. The STIM unit was deployed from a MSV to a water depth of 4,000' and was successfully utilized to conduct both hydrate remediation and flowline flushing operations. Under the watchful eye of an independent third party, the STIM system completed all required testing for BSEE prior to the commencement of subsea operations with zero failed tests. The system subsequently worked flawlessly to clear the blockages and reestablish production through the flowline.

"Although the original scope of work was pretty straight forward, once on location we were provided with several challenges due to the status of the flowline," said Kyle Gessner, Project Manager for Trendsetter. "The Trendsetter team adjusted to the changing requirements of the job to ensure that all of the Client's goals and objects were met in a safe, efficient and professional manner. It's what we do."

The STIM systems offer a 15,000 psi solution for all types of hydraulic interventions and flowline remediation operations including acid stimulation, well kill, cementing, hydrate remediation and flow assurance mitigation.

INNOVATORS PROVIDE PROTECTION FOR HEALTHCARE WORKERS *-continued from page 1*

procedures), the virus can be aerosolized, which increases risk of exposure to the healthcare workers," Chug explains. "The containment system I wanted to produce would have to provide a physical barrier."

As Chug began sketching a design for PPE that would restrict exposure while allowing safe execution of medical procedures, he discovered a box-like structure being used in China. Though the concept was similar, this type of box was not adequate for Dr. Chug's purpose. He needed more functionality, including the ability to accommodate different sized people and permit easy access to the patient to allow the dexterity required for precise medical procedures. In the span of a week, Chug developed a design that could tick all the boxes, but he needed engineering assistance.

Luis Mario Rodriguez, a mechanical engineer at TVO, brought the preliminary design to the company and worked with the engineering team to develop the ViraBox, a large, plastic enclosure that covers the upper part of a patient while allowing medical personnel to use sealed access holes to provide care.

Chug has received multiple requests for the ViraBox and has committed to donating two units to a Houston hospital. TVO is building an additional 10 units that will be donated to hospitals in Houston, Detroit, Colorado Springs, Co, and Topeka, Ka.

Dr. Chug and TVO hope this innovative solution can be mass produced to benefit healthcare workers and patients across the country and even potentially overseas.

TRENDSETTER DEVELOPS SOLUTION FOR WELLHEAD ADAPTER

Trendsetter Engineering, Inc. is pleased to announce the successful deployment of a Wellhead Adapter for a riser installation in the Gulf of Mexico.

The Wellhead Adapter consists of a TC11 Connector mounted upside down onto an H4 Connector to allow for the easy installation of a riser. This solution was required due to a tight installation window for deploying the riser topside. The TC11 connector provided a guide funnel and robust clamping mechanism to ensure access to the well for plug and abandonment subsea.

The project had a tight delivery schedule, and Trendsetter were once again called upon to supply the equipment owing to our industry reputation for creative and practical subsea solutions, rapid response and superior project execution.



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Manufactured by:
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