

Hyper-Realistic Surgery Demonstrations at IMSH 2022

Reflective of the dynamic development of new simulation technologies and capabilities taking place across the medical environment, Strategic Operations, Inc. (STOPS) [Booth 906], will be conducting hyper-realistic virtual surgical demonstrations in their booth during IMSH 2022.

The company, which is located on the lot of Stu Segall Productions, a former TV/movie studio located in San Diego, creates uniquely immersive training environments using the techniques of the film industry—bringing “the magic of Hollywood” to live military and civilian tactical and medical training and education.

STOPS hosted hyper-realistic medical training workshops at their facility during both IMSH 2016 and IMSH 2020.

According to Kit Lavell, Executive Vice President at STOPS, the company will highlight the launch of the company’s new innovative surgical simulation program, featuring “the world’s only hyper-realistic open surgery simulator,” during IMSH 2022.

STOPS defines hyper-realistic as: the achievement of such a high degree of fidelity in the simulation of real-world conditions that participants willingly suspend disbelief and become immersed emotionally, and eventually stress-inoculated, in a way that can be physiologically measured.



Advanced Surgical Skills Package (ASSP) / Cut Suit— high-fidelity open-surgical simulator



...the most realistic way to simulate the look, feel and smell effects of severe traumatic events and pathologies on a live human while allowing medics, combat lifesavers, military, doctors, and civilian first responders to perform real procedures with a live human safely.”

“Since the end of the ‘see one, do one, teach one’ era of the ‘Halstead method,’ physicians in training have had significantly less hands-on experience in which they have been allowed to make decisions and be responsible for the consequences of those decisions,” Lavell explained, noting that the company’s development of a “Cut Suit” design allows for that experience.

He described the Cut Suit as a patented human-worn surgical simulator that provides “the most realistic way to simulate the look, feel and smell effects of severe traumatic events and pathologies on a live human while allowing medics, combat lifesavers, military, doctors, and civilian first responders to perform real procedures with a live human safely.”

He continued, “Unlike performing surgery on a real person, time out can be taken for instruction and education and then restarted. Mistakes could be made and taken to a point where true learning of how to recover from the mistake can be experienced safely. The

system could be paused, re-set, started over, and stopped to analyze and review for lessons learned. Besides improving individual surgical skills and decision-making, the Cut Suit simulator enhances surgical team training just as flight simulators enhance crew resource management in the airline industry.”

Over the last few years, the Cut Suit has evolved to reflect increasing realism and capabilities that have opened the door for broader application. Most recently, in early October 2021, STOPS launched a new high-fidelity open-surgical simulator called the “Advanced Surgical Skills Package (ASSP) / Cut Suit” at the annual meeting of the American Association for the Surgery of Trauma.

Lavell said that the new package blends the latest surgical expertise, realistic organ design, and special effects to provide an innovative, high-fidelity, open-surgical simulator that can realistically replicate traumatic organ injury and bleeding.

He added that the company will share those advanced capabilities with IMSH conference attendees through ASSP demonstrations conducted in the exhibit hall throughout IMSH 2022.