



SHOW DAILY

WEDNESDAY
DECEMBER 1, 2021

Opening and Fireside Chat
Page 6

Industry Keynote
Page 8

The Next Big Thing
Page 10

Senior Leader Panel
Page 18

Flag Officer Panel
Page 20

Black Swan
Page 26



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PEO STRI and Orlando-based Partners Help to Modernize Army and Increase Soldier Lethality

With improved technology at the forefront of Army modernization efforts, the Program Executive Office for Simulation, Training and Instrumentation (PEO STRI) in Orlando leads a skilled and diverse workforce and teams with high-caliber Army partners to modernize current readiness through fielding the next generation of technology for Multi-Domain Operations (MDO) for the Joint Force.

Success of this next generation technology revolves around the Synthetic Training Environment (STE), a software solution designed to provide a collective, multi-echelon training and mission rehearsal capability for the operational, institutional and self-development training domains.

As part of efforts to improve Soldier lethality - one of six Army modernization priorities - every deploying Soldier uses some type of simulation to train and hone their critical warfighting skills. PEO STRI and its Orlando partners have worked hard to become the provider of choice for simulation, training and testing solutions to optimize both Soldier and unit readiness.

"Every Soldier who steps foot on the battlefield has trained on one or more of the training and testing capabilities we have fielded to them, honing their readiness skills and making them more lethal in battle,"

said Karen D. H. Saunders, SES, the Program Executive Officer for PEO STRI.

Many of PEO STRI's efforts center around the Orlando-based Synthetic Training Environment Cross Functional Team (STE CFT), one of the Army Futures Command's eight cross-functional teams designed to streamline research, acquisition and fielding processes by collaborating with the operations, science and technology, testing, resourcing, sustainment and program/cost management communities.

"The modernization period is a team effort. It is going to take the team of teams approach to bring all of our efforts to the Soldier," said Joe Parson, STE CFT, Highly Qualified Expert. "A big part of the STRI/CFT teamwork is the ability to carry the same message and compete for resources. Having both organizations working together has greatly aided in the team's ability to garner the resources necessary to speed up some of our work."

Parson said the role of the STE CFT is not to replace or replicate anything that PEO STRI is charged with performing, but rather to shepherd the requirements process to ensure the right capability is making it into the hands of Soldiers.

"PEO STRI has worked in this space far longer than the CFT or any of its individual members, so

Continued on p4

Moog Spotlights New Full Flight Motion System

Moog Inc. [Booth 649] is using I/ITSEC 2021 to showcase its third generation "Gen3" all-electric Level D Full Flight Motion System.

Moog made the first all-electric motion system and was also the first to achieve Level D approval in 2006. Since then, the company has delivered more than 1,000 high payload, Level D electric motion systems, with those systems successfully helping to train and certify thousands of crews. With its network of service providers, the company supports customers in 27 countries on six continents.

"What we're looking forward to at I/ITSEC is to get back together and be able to talk to people face to face and connect the way we're supposed to," offered Craig Lukomski, Product Market Manager, Simulation and Test for Moog Inc. "There was a lot of uncertainty with virtual events, but it's nice to see people again, talk to them and feel safe doing so."

Turning to the Gen3 motion system, he explained, "We've taken this COVID lockdown time and redesigned our system to be a more

cost-effective unit for the customer throughout the entire lifecycle, from purchase price to maintenance and support."

The Gen3 system achieves lower costs through a more efficient use of electricity, a field replaceable cushion and a new return-to-home feature that eliminates batteries and redundant drives using an alternative technology for storing energy while delivering on the same high level of safety.

"We really focused on power management with Gen3," Lukomski said. "In the past, facilities would face whatever power requirements the system had. But we were able to lower that power requirement through some engineering redesign of the electronics, so now a facility can get by with a smaller supply than they used to in the past. And electronic installation can be quite expensive from the facility standpoint. We reduce that by approximately two-thirds, which is pretty significant."

In addition to the power improvements, he identified a number of complementary technologies that will be on display at I/ITSEC, including the company's modular control loading family.

"Moog has a long history in this market space," he summarized. "We're a well-known and proven company that provides the kind of products our customers need. We sell our products to a lot of OEMs, like the main flight-simulator companies. Sometimes that puts us 'under the hood,' so to speak. And I would hope people would be looking for that when they're specifying their products or when they're out buying simulators."



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