

November 13, 2019

8:00 – 8:45	Registration and Light Breakfast Reception Open
8:45 – 9:00	Moderator Opening Remarks
9:00 – 9:45	Leveraging Lasers to protect Marines from UAV's and other Threats <ul style="list-style-type: none">- Rapidly developing a CLaWS prototype for evaluation to get them quickly in the hands of Marines- Incorporating CLaWS into fixed site and mobile counter UAS systems- Utilizing lasers to defend against aerial threats from both near-peer and asymmetric enemies Don Kelley (Confirmed) Program Manager, Ground Based Air Defense Marine Corps Systems Command
9:45 – 10:30	Rapidly Fielding Army Directed Energy Systems <ul style="list-style-type: none">- Moving directed energy weapons from prototypes into the hands of the warfighter- Bridging the gap between the S&T and program of record communities- Working with industry and government partners to increase the development of directed energy weapons Dr. Craig Robin (Tentatively Confirmed) Senior Research Scientist for Directed Energy Applications Army Rapid Capabilities and Critical Technologies Office
10:30 – 11:00	Networking Break & Exhibits
11:00 – 11:45	Enhancing US Missile Defense Capabilities through Directed Energy <ul style="list-style-type: none">- Reducing the number of required interceptors with directed energy platforms- Leveraging directed energy to keep pace with the continually developing hypersonic missile threat- Investing in laser technology to address future missile defense requirements Keith Englander, SES (Confirmed) Director for Engineering Missile Defense Agency
11:45 – 12:30	Applying Directed Energy to Counter Enemy Air and Missile Threats <ul style="list-style-type: none">- Employing directed energy weapons to defend against enemy aerial assets- Integrating directed energy systems into the four pillars of theater missile defense- Utilizing HEL and microwave weapons as a low-cost option to counter drone swarms Daryl Youngman (Confirmed) Deputy Director Air and Missile CFT
12:30 – 1:30	Networking Lunch & Exhibits

1:30 – 2:30	<p>Panel Discussion: Role of Directed Energy Weapons in Future Mega City and Urban Environments</p> <p>This panel discussion will provide an overview of the future of DE weapons capabilities in support of operations in dense urban environments. With the world population increasingly shifting to urban environments future battles will be fought in the streets, buildings, and tunnels of Mega cities and other urban conglomerates. These complex environments will require emerging technologies and weapons to ensure that our warfighters can maintain their dominance of the battlefield while also reducing collateral damage. Our invited panelists will detail the DoD's efforts to develop and deploy DE solutions, to include technological updates, requirements roadmaps, capabilities sought, challenges, future investment, and much more</p> <p>Moderator: Bob Hesse – Technical Lead, U.S Army Subterranean and Dense Urban Environment Materiel Developer Community of Practice (Invited)</p> <p>Panelists: Dr. Russell Glenn – Director, Plans and Policy; Deputy Chief of Staff, G-2; U.S. Army Training and Doctrine Command (Confirmed) COL John Pirog, USA - Deputy Director, Capabilities Development and Integration Directorate The Maneuver Center of Excellence (Confirmed) Dr. Margarita Konaev – Research Fellow, Center for Security and Emerging Technology (Confirmed)</p>
2:30-3:00	<p>Networking Break & Exhibits</p>
3:00 – 3:45	<p>Developing the Navy Laser Family of Systems</p> <ul style="list-style-type: none"> - Gaining operational experience with direct energy weapons to improve their development - Combining multiple lasers of different wave lengths to create a more powerful beam - Taking the next steps in testing and fielding directed energy weapons across the fleet <p>David Kiel (Invited) Director, Directed Energy Warfare Office NSWC Dahlgren Division</p>
3:45 – 4:30	<p>Providing Capable Power and Energy Systems to Integrate Directed Energy Weapons into Naval Ships</p> <ul style="list-style-type: none"> - Developing affordable and capable systems to meet the increasing need for electric and pulse power - Shifting away from traditional separation of mission systems and ship systems to integrated power & energy architectures - Working with Industry to develop innovative power and energy technologies <p>Erin Kampschroer (Confirmed) APM Energy Storage Electric Ships Office (PMS 320)</p>
4:30 - 5:15	<p>Conducting Planetary Defense and Exploration with Directed Energy Systems</p> <ul style="list-style-type: none"> - Utilizing directed energy to deflect asteroids, comets, and other near-earth objects - Employing a modular design to lower cost and minimize risk - Powering distant spacecraft with directed energy beams <p>Phil Lubin (Confirmed) Director, Experimental Cosmology Laboratory, Space Research Laboratory, Interstellar Center</p>