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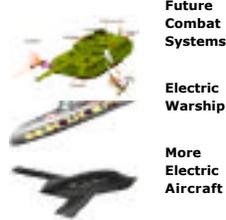
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Weapons Systems Technology IAC (WSTIAC)



WSTIAC Supports Advanced Power and Electric Technology Program Planning

All Services are committed to developing electric and/or hybrid electric weapons and platforms. Electric technology offers considerable potential to reduce the size and weight of ground, sea and air platforms, reduce logistics burdens, and significantly increase warfighting capabilities. The Weapon Systems Technology Information Analysis Center (WSTIAC) has supported the DUSD(S&T) Weapons Systems Directorate by organizing two electric technology workshops to help guide the direction of future DoD advanced power and electric technology efforts.



**Future
Combat
Systems**

**Electric
Warship**

**More
Electric
Aircraft**

[Continued on Story 1](#)

WSTIAC Supports Warfighters and Weapons Systems Community

The Weapon Systems Technology Information Analysis Center (WSTIAC) is currently supporting more than 6,000 users and we are actively seeking new opportunities to provide support to people and organizations that have not previously used WSTIAC. WSTIAC maintains a database of pertinent publications, responds to user inquiries, publishes a bulletin and special publications, provides weapons-related training, and conducts user-funded Technical Area Tasks that extend weapon systems technologies and apply them to solve critical DoD problems.



[Continued on Story 2](#)

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Weapons Systems Technology IAC (WSTIAC)

WSTIAC Supports Advanced Power and Electric Technology Program Planning (continued)

The WSTIAC planned and conducted an Electric Armament and Protection Technology Workshop that was held 26-29 March 2001, with active participation from 87 electric armament and protection technology experts. This Workshop quantified Service technology needs and helped facilitate multi-Service collaboration. The Workshop identified the need to enhance enabling/component technology efforts supporting Service electric weapon/platform programs. Based on the results of this Workshop, the DUSD(S&T) Weapons Systems Directorate identified the need to develop an advanced power and electric technology thrust to support future DoD electric and hybrid weapons and platforms.

WSTIAC organized a follow-on workshop, Electric Armament II, that was held 10 July 2001. This Workshop produced an initial plan for a multi-year DoD advanced power and electric technology thrust focused in three high priority areas:

- Capacitors;
- Switches and
- Distribution, transmission, and connection.

WSTIAC subsequently worked with OSD, DARPA, and the Services to refine the initial plan, develop specific three and five-year program goals, and depict these in a roadmap that shows how the technology products from this program can transition to Service applications. This power and electric technology thrust will provide a solid technical foundation for a wide variety of Service electric and hybrid-electric weapons and platforms, including weapons such as solid state lasers, high power microwaves, electro-thermal chemical guns, dynamic armor, electromagnetic launch and recovery systems, electric drives, Future Combat Systems, Electric Warship, and More Electric Aircraft, among others.

Please contact Dr. Wes Kitchens at (703) 933-3317 or wkitchens@iitri.org to discuss how WSTIAC can support your scientific and technical needs.

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Weapons Systems Technology IAC (WSTIAC)



WSTIAC Supports Warfighters and Weapons Systems Community (continued)

By August 2001 WSTIAC had eighteen Technical Area Tasks (TATs) in progress with a funded value of more than \$20M. These TATS covered a broad spectrum of weapons-related topics, including:

- Frequency spectrum management engineering analysis,
- Design and development of sensors and system assessment & analysis tools,
- Smart area denial technology development/demonstration,
- Unexploded ordnance, ordnance, and explosive detection/neutralization/removal,
- Air and missile defense program support,
- Weapon systems analysis and assessment,
- Program management software development/enhancement, and
- Development of improved chemical kinetics input parameters for weapons effects models.

WSTIAC is currently working with the DUSD (S&T) Weapons Systems Directorate to plan a multi-year advanced power and electric technology thrust that will provide the technical foundation for a variety of future electric and hybrid-electric weapons and platforms. WSTIAC's chemical kinetics input parameters TAT will improve weapons effects models used by several CINCs and unified commands to conduct counterproliferation planning and assessment. These technical tasks have helped broaden WSTIAC's support to warfighters and the RDT&E community.

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