



(DOD PHOTO)

Weapon Systems Technology Information Analysis Center

The Weapon Systems Technology Information Analysis Center (WSTIAC) is a premier source of weapon-systems technology information and analysis to support today's decisions for tomorrow's warfighters.

"The complexity of modern weapon systems is such that no one component or technology can be addressed in isolation" To assist DoD in overcoming this complexity, the Weapon Systems Technology IAC, WSTIAC, was established on October 1, 1999. Today, WSTIAC continues to offer a full spectrum of services & resources to the weapon systems community. Many of these are available free of charge.

Although covering the full spectrum of conventional and directed energy weapons technologies, WSTIAC offers a focus on twelve key strategic areas that are critical to the Department of Defense:

- Power & Energy
- Lethality
- Command & Control
- Non-Lethal Weapons
- Weapon Systems & Munitions Readiness & Asset Visibility
- Target Identification & Engagement
- Asymmetric & Irregular Warfare
- IED Defeat
- Embedded Training Systems
- Maritime Surveillance
- Cyber warfare
- Capabilities, Effectiveness & Requirements Analyses

TRAINING COURSES

Whether you're on the front line or providing support to our military, you need a fundamental knowledge of current weapon systems. WSTIAC develops, presents, and maintains training courses on a cost-recovery basis to transfer conventional and DEWs technology information to the

Weapon Systems community. Currently, WSTIAC offers courses on the following technologies:

- Smart/Precision Weapons provide a comprehensive understanding of smart weapons and related technologies on selected US and foreign smart weapons, including system description, concept of employment, performance characteristics, and effectiveness and program status.
- Sensors and Seekers for Smart Munitions and Weapons provides an introduction to the most commonly used sensors and seekers in smart munitions and weapons (projectiles, missiles, and wide-area mines).
- Systems Engineering for Product Life Cycle Management provides a comprehensive overview of the discipline of Systems Engineering and how it is applied over the life cycle of a product. Topics include Systems Engineering standards, models, technical management, analysis and evaluation, product realization, product control, configuration and data management, product support, coupled with a practical approach to capability maturity.
- Weapon engineering provides an overview of probability computations for determining the quantity of weapons required to achieve a specific level of damage to a given target. This includes target

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vulnerability, weapons effect, and accuracy of delivery, damage criteria, probability of kill, and weapon reliability and application for air-to-surface and surface-to-surface engagements.

- Directed Energy Weapons provides an introduction to the basic principles & techniques of DEW and discuss key DEW programs in High-Energy lasers and High-Power Microwaves.

- Improvised Explosive Devices (IEDs) and Rocket Propelled Grenades (RPGs) provides an introduction to the nature of the Improvised Explosive Device (IED) and Rocket Propelled Grenade (RPG) threats, and measures currently being employed to counter them. These weapons are among the principal ones being deployed by insurgents against US & allied forces in Iraq and Afghanistan. The course provides the historical context of their development and use, details of construction, methods of deployment, and background information pertaining to munitions and explosives. Active and defensive technological and tactical countermeasures are presented, including lessons learned in the current conflicts in Iraq and Afghanistan.

CURRENT AWARENESS

Discover Latest Developments & Technologies
The WSTIAC Quarterly is a free technical journal that publishes original work and is delivered to over 18,000 weapon systems professional.

Visit: <http://wstiac.alionscience.com/subscribe>

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INQUIRY SUPPORT

Free Research, Fast Answers...
What's Your Question?

WSTIAC provides a government subsidized, free technical inquiry service. We have the expertise to jumpstart or support your project – the first four hours of every question is free. WSTIAC's Subject Matter Expert (SME) program pulls together specialists in niche weapon systems technology areas, creating a diverse network of professionals from academia, Department of Defense (DoD), government agencies, research and development (R&D) institutions and industry.

Visit: <http://wstiac.alionscience.com/experts>

TECHNICAL AREA TASKS

Leverage Years of Experience

WSTIAC is available to assist DoD organizations and industry by conducting Technical Area Tasks (TATs) on a cost-recovery basis. WSTIAC can conduct analytical or/ or experimental TATs, conduct trade studies, develop and demonstrate prototype hardware, and provide interdisciplinary technical expertise on a wide variety of topics related to weapons technology and systems. WSTIAC, in conjunction with our network of DoD and industry partners, serves several targeted communities.

Our team offers a range of capabilities including:

- Requirements Analysis
- Assessment of Weapon Systems Technologies
- Systems Readiness Analysis
- Project Management & Business Management
- Independent Reviews
- Engineering & Scientific Solutions

Let us deliver timely and cost-effective solutions to meet your system and performance needs.

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