

4. Approach.

The Analysis for Non-Traditional Security Challenges Workshop will be organized into five working groups and one synthesis group:

WG-1: Irregular/GWOT.

WG-2: Disruptive.

WG-3: Catastrophic.

WG-4: Deterrence.

WG-5: Decision-Making and Integration.

Synthesis Group—By definition, these working groups are not mutually exclusive. The inherent overlaps between the working groups provides synthesis points for integrating the conclusions from each as well as reducing the probability that major ideas will “fall through the cracks” between the workshop topics. The synthesis group will examine cross-group commonalities and insights and develop the overall workshop recommendations.

5. Administrative Details.

Organizing Committee:

Program Chairs: Lee Dick & Dr Jim Harris

Advisor: Jim Bexfield, FS

WG-1 Chair: Dr Ed McGrady

WG-2 Chair: Dr Mike Bailey

WG-3 Chair: Dr Al Sweetser

WG-4 Chair: LTC Steve Riese, USA

WG-5 Chair: Dr Greg Parnell, FS

Synthesis Co-Chairs: Roy Reiss & Sunny

Conwell

Administration: Brian Engler & Natalie Kelly

ADDITIONAL VOLUNTEERS ARE WELCOME.
PLEASE CONTACT THE MORS OFFICE IF YOU
ARE INTERESTED IN PARTICIPATING
EITHER ON THE ORGANIZING
COMMITTEE OR IN THE WORKSHOP.

Location:
Kossiakoff Center
Johns Hopkins University/
Applied Physics Laboratory
Laurel, MD

Fees:
Entire Workshop
Government: \$310
Non-Government: \$545

Plenary (Day 1) Only
Government: \$160
Non-Government: \$280

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Workshop

*Analysis for Non-
Traditional Security
Challenges: Methods
and Tools*

21 - 23 February 2006

Kossiakoff Center
Johns Hopkins University/
Applied Physics Laboratory
Laurel, MD

1. Background.

The current National Defense Strategy builds upon the efforts of the 2001 Quadrennial Defense Review and the dramatic changes in the security environment and lessons learned in the post 9-11 world. The strategy identifies four persistent and emerging challenges in this new, more uncertain area: traditional, irregular, catastrophic and disruptive.

A prerequisite for reforming the way DoD does business in acquisition, requirements and trades is the transformation of the Analytic System. The OSD Analytic Agenda was created to achieve this purpose. It recognizes the changing nature of warfare brought about by new technologies, new missions and an enemy that is intelligent, unpredictable and continuously varying its patterns.

Our current modeling and simulation suites were evolved from Cold War models and have served us well. We have continued to improve legacy models. We also have invested a considerable effort to develop newer, more robust models to support the defense analytic process. Most modeling activity since the Cold War ended, however, has continued to center on the analysis that supports traditional warfighting. As we attempt to seek ways to develop techniques to analyze the non-traditional areas, we have found that our familiar existing suite of tools is not well suited to examine the capabilities of the Joint force against these new challenges.

This workshop is intended to facilitate cross-community identification and sharing of tools, techniques, and methodologies. It is expected to provide immediate benefit to modeling developments and analytic support within DoD.

2. Purpose.

The purpose of this workshop is to match stakeholder analytic gaps and deficiencies with potential methodology and modeling solutions in support of new developments in defense analytic requirements and capabilities. Specifically, the workshop is intended to:

- Illuminate user non-traditional modeling and simulation gaps and deficiencies in the context of the defense security challenges and emerging changes in the defense strategy;
- Identify areas of user commonality;
- Capitalize on Joint/Service/Agency toolsets and ongoing model development for the larger community;
- Develop partnerships to share future M&S development.

3. Goals and Objectives.

The workshop will help achieve the following long-term goals for the DoD analytic community:

- Improve DoD analysis tools used for requirements determination, effectiveness evaluation and program planning;

- Develop the ability to model emerging security challenges and new operational concepts: Irregular, Catastrophic, and Disruptive Challenges, FORCENet, Effects-Based Ops, Distributed Ops;
- Improve traceability of data through modeling hierarchy: Engineering to Engagement to Mission to Campaign;
- Advance state of the art in M&S technology, practices, standards, and architectures; and
- Inform DoD analytic M&S community of important related activities.

The following objectives are for each Working Group:

- Identify key stakeholder decision-makers;
- Examine analysis gaps and deficiencies needs from a stakeholder perspective;
- Determine commonalities between stakeholders;
- Examine common gaps and deficiencies and identify potential solutions in terms of methodologies, legacy M&S, modifications of legacy M&S or new M&S developments from a broader, enterprise-wide perspective;
- Explore potential partnerships for new M&S developments;
- Rank the M&S needs within each Working Group to provide an important; and
- Provide advisory input to the Analytic M&S Master plan.