

#### DEVELOPING A DATA BASE FOR SIMULATION

The need to utilize some kind of data in the exercise of models and simulations is fundamental. Problems in deriving data sets of sufficient scope, depth and accuracy have been studied many times. These studies drew on the data base provided by World War II, Korea, Viet-Nam, and most recently, the Falklands Islands action and the action at Grenada. With the establishment in 1959 of the Army's Combat Development Experimentation Center Fort Ord California; and the subsequent construction of other test ranges and facilities which followed in ever expanding numbers, the scope of data collection activity has broadened considerably. Now, we routinely collect data about many specific aspects of new and old system performance - both in the laboratory and under simulated combat conditions. And we have developed computer simulations of the activities which generated that data. Work of this kind has provided many insights useful in understanding how combat is structured.

In the past few years, we have focused more intently on putting our increasingly sophisticated computational capabilities to use by building more complex and interactive representations of combat. In doing so, we have discovered that in a number of instances the available data base lacks the scope and the detail necessary to use the representations we have devised.

The basic difficulty seems to be that although much data has been collected, it is insufficiently comprehensive of measurements of all variables of importance. Thus, it has not provided an expanding integrated set of consistent information, but has, rather produced sets of independently generated and focused information which cannot be joined into a consistent data base.

The dimensions of this problem and possible solutions to it will be examined in a Panel Discussion and a companion session of invited papers. A panel of Government Representatives of the Test and Evaluation Community will discuss the Government's Perspective; while Industry representatives provide their own Perspective.

The Panelists and Authors of Papers are indicated below.

PANEL DISCUSSION  
DEVELOPING A DATA BASE FOR SIMULATIONS  
A GOVERNMENT PERSPECTIVE

PAPER SESSION  
DEVELOPING A DATA BASE FOR SIMULATIONS  
INDUSTRY PERSPECTIVES

PANEL CHAIR: Henry C. Alberts  
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PANELISTS:

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