



From the Chairman and Executive Editor

The theme for this edition of *Defense Acquisition Research Journal* is “...All Others Must Bring Data.” It derives from the famous quote by American management consultant W. Edwards Deming, “In God we trust; all others must bring data,” displayed outside the office of Under Secretary of Defense for Acquisition, Technology, and Logistics Frank Kendall. Accurate and meaningful data are the basis for making informed acquisition policy decisions; as British scientist William Thomson (Lord Kelvin) said over a century ago, “When you can measure what you are speaking about ... you know something about it; but when you cannot express it in numbers, your knowledge is of a meagre and unsatisfactory kind.”*

The first article, “Compressing Test and Evaluation by Using Flow Data for Scalable Network Traffic Analysis,” by Kevin Buell, Mustafa G. Baydogan, Burhan Senturk, and James P. Kerr, examines one method for accelerating the test and evaluation phase for data network-based programs by using readily scalable flow data. The second article, “Improving Statistical Rigor in Defense Test and Evaluation: Use of Tolerance Intervals in Designed Experiments,” by Alethea Rucker, looks at statistical tolerance intervals in designed experiments as an analysis method for the Department of Defense test and evaluation technical community.

In “A Comparative Analysis of the Value of Technology Readiness Assessments,” Reginald U. Bailey, Thomas A. Mazzuchi, Shahram Sarkani, and David F. Rico provide a comparative analysis and model of the economic value of Technology Readiness Assessments for major defense acquisition programs. Finally, Holly A. H. Handley and Beverly G. Knapp ask “Where Are the People? The Human Viewpoint Approach for

Architecting and Acquisition,” arguing that the Department of Defense Architecture Framework needs a more robust link between the system architecting and the Human Systems Integration communities.

The featured book in this issue’s Defense Acquisition Professional Reading List is Volume II in the History of Acquisition in the Department of Defense series, *Adapting to Flexible Response, 1960-1968*, by Walter S. Poole. The reviewer is Dr. Roy L. Wood, dean of DAU’s Defense Systems Management College.

Finally, I encourage prospective authors to consider submitting their manuscripts for the DAU Alumni Association’s 2015 Acquisition Symposium, following the guidelines in the Call for Papers in this issue.



Dr. Larrie D. Ferreiro
Executive Editor
Defense ARJ

* Thomson, W. (1889). Lecture on electrical units of measurement. *Popular Lectures* (Vol. I). London: MacMillan.

The full quote is:

I often say that when you can measure what you are speaking about, and express it in numbers, you know something about it; but when you cannot express it in numbers, your knowledge is of a meagre and unsatisfactory kind; it may be the beginning of knowledge, but you have scarcely, in your thoughts, advanced to the stage of science, whatever the matter may be. (p. 73)