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***Technologies for
Synthetic Environments:
Hardware-in-the-Loop Testing XIV***

James A. Buford, Jr.
Robert Lee Murrer, Jr.
Editors

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Introduction

Beyond this page you will find the proceedings of the 14th conference of Technologies for Synthetic Environments: Hardware-in-the-Loop Testing. After thirteen years, I have handed over Chair duties to Jim Buford and I will continue on as his co-chair. Given the continued strong interest (in the form of papers and attendance) in this conference, we will assume we have a winning formula and so the fundamental theme and format will remain unchanged.

In these proceedings, you will find a refreshing variety of papers from flight motion simulators, to test facility integration, to innovations in scene generation, to infrared projector technology and characterization. We have achieved the standard in infrared projection with the maturation of the Santa Barbara Infrared resistor arrays but much work remains. Many have achieved remarkable success in non-uniformity correction performance but there remain nagging unknowns with respect to annealing characteristics of the emitter materials. Emitter over-drive has re-emerged as a discussion topic to significantly improve rise time. PC-scene generators have become the standard and innovative techniques have resulted in previously impossible real-time dynamic modeling of the interaction of a target with its environment (i.e. boat wakes, aero-wakes, and plumes).

We are eternally thankful to the authors and presenters who face competing interests for their time while navigating the creep of scrutiny on release authority. Many thanks also to Kathryn Stevens who was the motor behind the pleadings and urgings as deadlines came and went; without her support, this conference would not have been possible.

James A. Buford, Jr.
Robert Lee Murrer, Jr.