

**Post-Workshop Comments**

Hugh W. Coleman

The third Lisbon workshop was a hallmark occasion in that it brought together different groups who applied the ASME V&V 20 validation methodology to the same fairly well-defined set of experimental data for a non-trivial flow field. The resulting comparisons took into account the experimental uncertainty associated with the data and the numerical uncertainty associated with the predictions from the simulations. One hopes that this sets an example that will become more and more common in the work reported in papers and articles in workshops, conferences and journals. While it is evident that there is not a “one-size-fits-all” V&V approach that will apply in all situations across all areas considered by scientists and engineers (incompressible flows to solar flares to biological systems to war-gaming to ...), the time is past when we should accept presentations that use the words “verification” and “validation” interchangeably or that present “code validation” as a comparison of data and calculations with no consideration for the uncertainties in the two.

Finally, my compliments to Luís Eça and Martin Hoekstra whose exceptional organizational prowess was demonstrated in the series of three extremely successful workshops. I believe the workshops and their results will continue to have a far-reaching and lasting impact.