



RTO 2012 Scientific Achievement Award

- **The 2012 SAA is awarded to:**
 - **AVT-161:** Assessment of Stability and Control Prediction Methods for NATO Air & Sea Vehicles
 - Highest NATO Research Group Award
- **Chairmen of these Teams will be invited at the Fall 2012 STB where they will be provided with their 2012 Scientific Achievement Awards (other members will receive their certificate by mail)**
 - *Chairs of the teams will be invited to deliver a presentation on the results of their team*

Impact Statement:

(extracted from the Award Application Form to NATO Research and Technology Board)

Never in the history of AVT, have so many scientists and researchers (46 total) from so many NATO nations (14) gathered together to produce such a comprehensive package of both experimental and analytical data, for both air and sea domain vehicles. These data sets will have a great impact with regard to the development of future NATO air and sea platforms, thus, directly and indirectly supporting warfighters needs. In the four years that AVT-161 existed, it is estimated that the participating nations spent over €10 million on building and testing both wind tunnel and water tank models, to compile a database of experimental results, while running large computer models to produce analytical data comparisons. In addition to producing an enormous database of test and analytical results which will be used for years to come, AVT-161 spawned an unprecedented number of documented results. The work of this Task Group has produced one PhD dissertation, and several M.S.E. theses, plus 13 journal articles and 33 conference papers. There were also a significant number of spin-off activities, including 2 new Task Groups, one Specialist Meeting, and one Exploratory Team to further the work. The organizational methods alone which were developed by AVT-161 to achieve its goals have set a new benchmark for future Task Groups to build upon. It is abundantly clear that AVT-161 is a shining example of the mission of RTO to conduct co-operative research and information exchange and also exemplifies the mission of AVT improve the performance, affordability and safety of vehicles through the advancement of technology. AVT-161 has produced a truly significant scientific contribution to the NATO knowledge base, with a direct measurable impact on defense vehicles, with an unprecedented level of international collaboration.