Form of Written Discussion at the 26th ITTC Conference

Discusser:		
Name	Strasser	
Affiliation	AC Chairman (Vienna Model Basin Ltd., Austria)	

Name of Technical Committee	Propulsion
or Group to be discussed	

Written Discussion (within 1,000 words of length):

Does the uncertainty analysis only contain the diameter as a geometrical parameter of the propeller? There is a concern of the AC that the uncertainty analysis does not contain all essential parameters (e.g. in the polynomials for the open water test one of the parameters is P/D) such as pitch and maybe also camber of the blade profile.

Answer

The Committee thanks Prof. Strasser for his very important question about uncertainty analysis of open water test results. The current procedure takes into account only the diameter as a geometrical parameter of the propeller. The Committee agrees with Prof. Strasser on this respect that the procedure should also include other geometric parameters which affect the flow characteristics around propeller blades and the measured thrust and torque. However it is not easy to estimate errors in pitch, camber, and other parameters of profile accurately. On the other hand, the Committee thinks that the procedure should be easily understood and applied. Therefore continuous effort to develop a robust but easy method to measure the geometrical parameters of a propeller is recommended.