



Form of Written Discussion at the 27th ITTC Conference

Discusser	
Name	David Murdey
Affiliation	NRC Canada

Name of Technical Committee or group to be discussed	Specialist committee on Detailed Flow Measurement
<p>Written Discussion (within 1,000 words of length)</p> <p>The committee has done excellent work. Guidelines will be of great value to organizations using PIV.</p> <p>My question is if these techniques are viable for commercial projects? If not now, when will they be usable for commercial studies?</p> <p>RESPONSE: The committee believes that these techniques are viable for commercial projects now and will be even more so going forward as the technology gets further matured and refined.</p>	



Form of Written Discussion at the 27th ITTC Conference

Discusser	
Name	FRECHOU Didier
Affiliation	DGA Hydrodynamics

Name of Technical Committee or group to be discussed	Specialist committee on Detailed Flow Measurement
Written Discussion (within 1,000 words of length)	
<p>Because of a lack of full scale data, would the (committee ???) recommend the use of PIV technique for wake measurement at full scale, if any similar measurements have already been done?</p> <p>RESPONSE: PIV measurement at full scale is possible. In fact, there was precedence in the open literature as reported by a member of this committee. However, PIV at full scale is not yet routine and will take significant planning and resources to accomplish.</p>	



Form of Written Discussion at the 27th ITTC Conference

Discusser	
Name	Neil Bose
Affiliation	Australian Maritime College @ the University of Tasmania

Name of Technical Committee or group to be discussed	Specialist committee on Detailed Flow Measurement
Written Discussion (within 1,000 words of length)	
<p>In answer to whether PIV can be used commercially, we at AMC have used PIV on joint industry projects on commercial applications to get answers to commercial questions. This leads to knowledge and expertise that the client can use such test next time a similar test is required, then the PIV can be used in a commercial manner directly.</p> <p>RESPONSE: The committee agrees with the observation. PIV is being used more and more in commercial applications and will only find wider usage as the technology becomes increasingly mature and refined.</p>	



Form of Written Discussion at the 27th ITTC Conference

Discusser	
Name	YAN Kai
Affiliation	China Ship Scientific Research Center, China

Name of Technical Committee or group to be discussed	Specialist committee on Detailed Flow Measurement
Written Discussion (within 1,000 words of length)	
<p>The report has proposed two experimental benchmark cases, 2C and 3C, for the purpose of verifying the quality of PIV measurement setup. However, for the 3C cases, the results from 3 institutions, in the presentation, show that there are obvious differences in the flow characteristics.</p> <p>I wonder if there is an obvious unsteady characteristic in the flow plane? So it is difficult to get the flow data at the same time.</p> <p>I suggest some organization to do CFD simulations to evaluate the benchmark setup.</p> <p>RESPONSE:</p> <p>This is an excellent suggestion. Unsteady RANS or LES can be performed to assess the unsteadiness of the flow, which could help refine the benchmark specifications in regards to the required temporal resolution and duration of the measurement to ensure that good time averages are captured.</p>	