

TSI SPRING FLUID WORKSHOP PIV/V3V WORKSHOP

April 22nd and 23rd, 2019

Monday, April 22 nd , 2019	
9:00 am to 9:10 am	Welcome and Introduction Location: Amazon/Nile
9:10 am to 10:15 am	Particle Image Velocimetry Principles Cross-Correlation System Components – PIV and TR-PIV Insight 4G Software Key Parameters Location: Amazon/Nile
10:15 am to 10:30 am	Break
10:30 am to 12:00 pm	 LAB: 2D PIV Measurements System Setup and Operation Spatial Resolution Size of the Region Measured Operation of INSIGHT 4G Software Processing Methods Location: Yangtze Demo Room
12:00 pm to 1:00 pm	Lunch
1:00 pm to 2:00 pm	 Stereo PIV system Introduction Principles and Theory Operation and applications Location: Amazon/Nile
2:00 pm to 2:15 pm	Break
2:15 pm to 4:00 pm	 LAB: Stereo PIV system Setting up the Stereo PIV Scheimpflug Arrangement Mapping Function/Stereo Calibration Measurement of 3D flow fields Location: Yangtze Demo Room
4:00 pm	Wrap-up for the day

Tuesday, April 23 rd , 2019	
9:00 am to 10:00 am	V3V-Flex volumetric PIV system Introduction Principles and Theory Operation and applications Location: Amazon/Nile
10:00 am to 10:45 am	Insight V3V 4G Software: DPIR algorithm for reconstruction of dense particles • Analysis of volumetric PIV images Location: Amazon/Nile
10:45 am to 11:00 am	Break
11:00 am to 12:15 pm	LAB: V3V-Flex volumetric PIV measurements System alignment System operation Calibration Location: Yangtze Demo Room
12:15 pm to 1:15 pm	Lunch
1:15 pm to 4:00 pm	LAB: V3V-Flex volumetric PIV measurements • Measurement of water channel flow Location: Yangtze Demo Room
4:00 pm to 4:30 pm	Summarize and Close