



2nd International Forum on Aerospace and Aeronautics

Virtual Short Course

Liutex and Third Generation of Vortex Definition
and Identification to Commemorate
Dr. Liu's Grandmother Mrs. Caishi Han

December 16-18, 2022 (US Central Time)

Organized by Aerospace Forum 2022, Continuum Forums

Sponsored by:

University of Texas at Arlington, Arlington, Texas, USA

Prof. Xiashu Cai,

University of Shanghai

Science & Technology, Journal of Hydrodynamics, China

Topic:
**Liutex and Third Generation of Vortex Definition and Identification to Commemorate
 Dr. Liu's Grandmother Mrs. Caishi Han**

December 16-18, 2022, (USA & Beijing Time Zones)

**December 16, Day- 1 of liutex short course 7:00-11:00 PM
 US Central Time (9-13 Beijing Time, Dec. 17)**

7:00-8:00 PM	Title: Three Generations of Vortex Identification
	Lecturer by: Chaoqun Liu, University of Texas at Arlington
8:15-9:15 PM	Title: Mathematical Foundation of Liutex
	Lecturer by: Chaoqun Liu, University of Texas at Arlington
9:30-10:30 PM	Title: Liutex and Third Generation Methods
	Lecturer by: Chaoqun Liu, University of Texas at Arlington
10:30-11:00PM	Free Discussion and Adjourn
	Lecturer by: Yiqian Wang, Soochow University

End of Day- 1 Liutex Short Course

**December 17, Day- 2 of liutex short course 7:00-11:00 pm
 US Central Time (9-13 Beijing Time, Dec. 18)**

7:00-8:00 PM	Title: Liutex Based New Fluid Kinematics
	Lecturer by: Chaoqun Liu, University of Texas at Arlington
8:15-8:45 PM	Title: Liutex in Turbulence Research
	Lecturer by: Hongyi Xu/ Duo Wang, Fudan University
8:45-9:15 PM	Title: Liutex Validation by Experiment
	Lecturer by: Xiaoshu Cai/Xiangrui Dong University of Shanghai for S&T
9:30-10:30 PM	Title: Liutex Application in Hydrodynamics
	Lecturer by: Decheng Wan Shanghai Jaotong University
10:30-11:00 PM	Free Discussion and Adjourn
	Lecturer by: Yifei Yu

End of Day- 2 Liutex Short Course

**December 18, Day- 3 of liutex short course 7:00-11:00 PM
 US Central Time (9-13 Beijing Time, Dec. 19)**

7:00-8:00 PM	Title: Liutex Core Line and Objective Liutex
	Lecturer by: Yifei Yu University of Texas at Arlington
8:15-10:30 PM	Title: Liutex Software Release and Practice (Bring your laptop with Techplot)
	Lecturer by: Yifei Yu, Oscar Alvarez, Yiqian Wang, Yisheg Gao, Xiangrui Dong
10:30-11:00 PM	Free Discussion and End
	Oscar Alvarez

End of Day- 3 Liutex Short Course

Slots are available for Individual and Institution Fee

Thank you for your co-operation