

# 2025 NCTS Summer School on **Fluid Dynamics** and **Kinetic Theory**



Registration



More information

**Time** June 2- June 6<sup>th</sup>, 2025  
June 9<sup>th</sup>- June 11<sup>th</sup>, 2025

**Venue** Room 505,  
Cosmology Building, NTU

## Speakers

**Kazuo Aoki**

Kyoto University & National Cheng Kung University

**Jerry L. Bona**

University of Illinois at Chicago

## Organizers

**Chun-Hsiung Hsia** National Taiwan University

**Jerry L. Bona** University of Illinois at Chicago

**Kung-Chien Wu** National Cheng Kung University & NCTS

## Introduction & Purposes

The purpose of the summer school is to introduce graduate students to fundamental results on the kinetic theory and the fluid dynamics, with special emphasis on (1) the relation between kinetic theory and fluid dynamics; (2) the dispersive water wave; (3) the transonic flows. These topics have long research history. In this summer school, the speakers will give comprehensive accounts on the aforementioned topics and introduce some interesting open problems.

## Lecturers

**Kazuo Aoki**

2025.6.2-4

Professor Emeritus, Kyoto University, Japan and  
Honorary Chair  
Professor, National Cheng Kung University,  
Tainan, Taiwan *From kinetic theory to fluid dynamics*

**Jerry L. Bona**

2025.6.5 / 6.6 / 6.9 / 6.10

Professor Emeritus, University of Illinois at Chicago  
Visiting Professor, National Taiwan University  
*Theory and Application of Dispersive Wave Equations*