

## **Session Program**

**9-13 Jul 2017**



## **CEC-ICMC 2017 - Abstracts, Timetable and Presentations**

## ***C3OrG - Nitrogen Fluid Mechanics and Heat Transfer***

Monona Terrace Community and Convention Center  
Madison, Wisconsin USA

# Wednesday 12 July

14:00

## C3OrG - Nitrogen Fluid Mechanics and Heat Transfer

**Session** | **Location:** Hall of Ideas - GJ | **Conveners:** Diego Fonseca, John Jurns

14:00-14:15

### Study of Nitrogen Two-phase Flow Pressure Drop in Horizontal and Vertical Orientation

**Speaker**

Torsten Koettig

14:15-14:30

### Experimental study of a two-phase nitrogen natural circulation loop

**Speaker**

Bertrand Baudouy

14:30-14:45

### Numerical Study of Evaporation and Motion Characteristics of Liquid Nitrogen Droplet in High-Speed Gas Flow

**Speaker**

Mr Yixiao Ruan

14:45-15:00

### CFD Modeling of Liquid Nitrogen Spray Cooling

**Speaker**

Mr Yixiao Ruan

15:00-15:15

### Relations between unsteady behaviors and shock waves in cavitating liquid nitrogen flows through a transparent venturi tube

**Speaker**

Mr Jiakai Zhu

15:15-15:30

### Experimental study on cavitating flow of liquid nitrogen over a three-dimensional hydrofoil

**Speaker**

Mr Xiaobin Zhang

15:30-15:45

### A comparative study on cavitation models for simulating the cavitating flow in liquid nitrogen spray nozzle

**Speakers**

Ms Rong Xue, Mr Yixiao Ruan

15:45-16:00

### Numerical study on the flow and heat transfer characteristics of slush nitrogen in a corrugated pipe

**Speaker**

Prof. Tao Jin

16:00