

2018 Shanks Workshop on Mathematical Aspects of Fluid Dynamics
Vanderbilt University
March 24-25, 2018

Saturday, March 24

- 08:30-09:00 Registration, Coffee
- 09:00-09:50 **Juhi Jang:** Rotating axisymmetric solutions of the Euler-Poisson equations
- 10:00-10:50 **Haoxiang Luo:** Computational fluid-structure interaction for biological applications
- 11:00-11:30 Coffee
- 11:30-12:20 **Todd Oliynyk:** Dynamical relativistic liquid bodies: local-in-time existence and uniqueness
- 12:20-02:30 Lunch break
- 02:30-03:20 **Anna Mazzucato:** Boundary layers and the vanishing viscosity limit in incompressible flows
- 03:30-04:20 **Jared Speck:** Shock formation for multidimensional fluid equations and related multiple speed systems
- 4:20-04:40 Coffee
- 04:40-06:40 **Contributed talks:**
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|----------------|------------------|-----------------------|
| Albert Ai | Ali Pakzad | Buddhika Liyanage |
| Carey Caginalp | Colin Thomson | Jae Min Lee |
| Liaosha Xu | Shang-Huan Chiu | Sutthirut Charoenphon |
| Yifan Wang | Zachary Bednarke | |
- 06:40-8:10 Reception ([Vanderbilt University Buttrick Hall](#))

Sunday, March 25

- 08:30-09:00 Coffee
- 09:00-09:50 **Roland Glowinski:** On the motion of rigid solid particles in visco-elastic liquids
- 10:00-10:50 **Chongchun Zeng:** Wind-driven water waves and instability of the Euler equation
- 10:50-11:10 Coffee
- 11:10-12:00 **Igor Kukavica:** The Euler equations with a free interface