

# Yosemite Fluids Meeting 2024

## Wawona Field Station

### Friday, April 5

Arrival at the field station's cabins 6:00pm – 10:00pm

### Saturday, April 6

Breakfast on site (provided) 8:00am – 9:15am

Welcome 9:15am – 9:30am

First talk session:

**Bob Guy**, UC Davis, 9:30am – 10:00am

Effect of fluid elasticity on the emergence of oscillations in an active elastic filament

**Shilpa Khatri**, UC Merced, 10:00am – 10:30am

Modeling symbiotic flows in bobtail squid

Tea/Coffee break 10:30am – 10:50am

Second talk session:

**Ulrike Muller**, CSU Fresno, 10:50am – 11:20am

Hydrodynamics of suction feeding in bladderwort, a carnivorous plant

**François Blanchette**, UC Merced, 11:20am – 11:50am

Modeling marine aggregates

Lunch on site (provided) 11:50am – 1:50pm

**Poster Session** 1:50 pm – 3:20pm

Coffee/Tea break 3:20pm – 3:40pm

Third talk session:

**Karthik Menon**, Stanford, 3:40pm – 4:10pm

Data-enhanced personalized computational models of coronary artery flows for disease diagnosis and treatment planning

**Nathan Willis**, UC Merced, 4:10pm – 4:40pm

Shallow-water simulations of colliding turbidity currents

Dinner at the Tenaya Lodge 6:00pm

## **Sunday, April 7**

Breakfast on site (provided)	8:00am – 9:15am
Fourth talk session:	
<b>Anneet Pal Bhalla</b> , San Diego State, Advances in the volume penalization method for fluid-structure interaction and beyond	9:15am – 9:45am
<b>Brittany Leathers</b> , UC Merced, The Immersed Boundary Double Layer method for flows with rigid bodies	9:45am – 10:15am
Tea/Coffee break	10:15am – 10:30am
Fourth talk session:	
<b>Rena Zieve</b> , UC Davis, Vortex Dynamics in Superfluid Helium	10:30am – 11:00am
<b>Dustin Kleckner</b> , UC Merced, Stretching of knotted and unknotted flow fields	11:00am – 11:30am
Lunch on site (provided)	11:30am – 1:00pm

### **Fluids in Yosemite Participants:**

#### **Faculty/Postdocs:**

Otto Berg, CSU Fresno  
Anneet Pal Bhalla, San Diego State  
François Blanchette, UC Merced  
Robert Guy, UC Davis  
Shilpa Khatri, UC Merced  
Dustin Kleckner, UC Merced  
Brittany Leathers, UC Merced  
Karthik Menon, Stanford  
Ulrike Muller, CSU Fresno  
E. Gerry Puckett, UC Davis  
Maxime Theillard, UC Merced  
Nathan Willis, UC Merced  
Rena Zieve, UC Davis

#### **Students:**

Alana Bailey, UC Davis  
Adam Binswanger, UC Merced  
Matthew Blomquist, UC Merced  
Kevin Collins, UC Merced  
Cole Cooper, UC Merced  
Cayce Fyelling, UC Merced  
Hyun (Alex) Lee, UC Davis  
Kelli Loritsch, UC Davis  
Sarah Malone, UC Merced  
Jeffrey Nichols, UC Davis  
Conor Olive, UC Merced  
Jack Pham, UC Merced  
Scott West, UC Merced  
De Zhou, UC Merced  
Haoyang Zhou, UC Davis