

Interdisciplinary Research Institute for the Sciences (IRIS)**The 7th Annual Symposium****Organizers: Sean Murray and Yen Duong****Friday, May 19, 2017****LO1326****COFFEE AND PASTRIES**

8:45am

WELCOMING REMARKS

9:00am Sean Murray and Rabia Djellouli

PRESENTATIONS9:10 am Ignacio Arvizu, *Murray Lab*Overexpression of a bacterial efflux pump causing multi-drug resistance, reduced motility and ectopic pole formation in *Caulobacter crescentus*9:30am David Bermudes, *Biology*Co-expression of a chimeric protease inhibitor secreted by a tumor-targeted *Salmonella* protects therapeutic proteins from proteolytic degradation9:50am Kevin Joyce, *Luchko Lab*

Progress towards rigorous drug-binding predictions from 3D-RISM

10:10am Asawari Kelkar, *Yomba Lab*

Solitary wave solutions and modulational instability in a system of coupled complex Newell–Segel–Whitehead equations

COFFEE AND PASTRIES

10:30am

10:45am Paulo Yu, *Durgesh Lab*

Impact of Aneurysm Morphologies and Inflow Conditions on Wall Shear Stress

11:05am Jussi Eloranta, *Chemistry*Theoretical Modeling of Superfluid ^4He Viscous Response on the Nanometer Scale11:25am Christopher Martinez, *Weeraratne Lab*

PTV Visualization of Entrainment of Heavy Metal Sediments by Convection at the Core-Mantle Boundary

11:45am Alexander Alekseenko, *Mathematics*

Development of Efficient Discretizations of the Boltzmann Kinetic Equation using Discontinuous Galerkin Methods

12:15pm **Lunch, Orange Grove Bistro****ADJOURN**