8:30 SAS 1108: Registration

9:00-10:20 SAS 1108: Welcome and Plenary talk from Peter Mucha (UNC-CH)

10:30-12:10 Session 1

SAS 2225: Algebra

10:30	Timothee William Bryan	*Vertex Operators and the Kostka-Foulkes Polynomials*
10:55	McKay Sullivan	*Twisted Logarithmic Modules of the Symplectic Fermions*
11:20	Ismail Demir	*Classification of some solvable Leibniz algebras*
11:45	Bethany Turner	*Characterizing Solvable Leibniz Algebras*

SAS 2102: PDEs

10:30	Joey Hart	*Variable Importance for Scattered Data*
10:55	John Jinho Kim	*Numerical Computation of a heteroclinic orbit based on the Principle of Wazewski*
11:20	Michael Malahe	*PDE Solvers for Hybrid Architectures*

SAS 1108: Biomath

10:30	George Bernard Lankford	*Mathematical Model of Hepatitis C Viral Dynamics using a Combination Therapy of Interferon, Ribavirin, and Telaprevir*
10:55	Nicholas A. Battista	*Fluid-structure interaction, immersed boundary methods, muscle models, and all that jazz.*
11:20	Michael Vella	*Modeling CRISPR/Cas based gene drives for population replacement.*

SAS 2106: Data Processing and Sensitivity Analysis

10:30	Marcella Noorman	*Sensitivity Analysis: Sensitivity Equations vs. Complex-Step Method*
10:55	Katie Schmidt	*Parameter Subset Selection for Mixed-Effects Models*
11:20	John Palowitch	*The Continuous Configuration Model: Extracting Communities from Edge-Weighted Networks*
11:45	Jared Catenacci	*Degradation detection in composite materials using reflectance spectroscopy*

12:10-1:15 Lunch Break

1:15-2:55 Session 2

SAS 2225: Topology

1:15	Phillip Andreae	*Analytic torsion: generalized metric invariance*
1:40	Dmitry Vagner	*Structured Categories are Algebras over their String Diagram Operad*
2:05	Sam Miller	*Noncommutative Instantons*
2:30	Dan Scofield	*Some results in chromatic graph cohomology*

SAS 2102: PDEs

1:15	Aaron Bardall	*Displacement Field Calculations for Substrate with Resting two dimensional Droplet*
1:40	Francesca Bernardi	*Experimental Analysis of the Diffusion of a Passive Scalar Subject to Steady Flow in a Circular Pipe.*
2:05	Faith Ozbag	*Combustion Waves and Wave Sequences in Porous Media*
2:30	Seyma Nur Ozcan	*Asymptotic Preserving Schemes for Kinetic Chemotaxis Equations*

SAS 2106: Modeling

1:15	Cagatay Karan	*Constructing Investor Views on Black-Litterman Model*
1:40	Micaela Mendlow	*Three-dimensional refraction correction for contact lens metrology using SDOCT imaging*
2:05	Henri Petrus Roesch	*Geometry of the Null Penrose Inequality*
2:30	Manuchehr Aminian	*Geometric Skewness in the Passive Tracer Problem*

2:55-3:15 Coffee and Ice Cream Break

3:15-4:15 SAS 1108: "Ask the Professionals"