Cornell University
Department of Mathematics
K-12 Education and Outreach

DRAFT

MATH 5080 – Mathematics for Secondary School Teachers

Note different start & end times from usual!

May 9, 2020

9:30 am – 3:00 pm (lunch provided)

Morning Sessions
Malott Hall, Rm. 406

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Lunch
Location TBD

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Afternoon Session
Location TBD

9:15 – 9:30 am	**Bagels & Juice** (provided)
9:30 – 9:40 am	**Introductions**
9:40 – 10:55 am	**Reflections on Elementary Mathematics from an Advanced Standpoint** *Mircea Pitici (Syracuse University)* In this talk I will raise some intriguing questions for discussion, based on what I observe in my students' mathematical background, when I teach advanced calculus and differential equations.
11:00 am – 12:30 pm	**Programming a TI-84: A Brief Introduction** *Fred Deppe (Ithaca High School)* I will lead a discussion of the benefits of programming the graphing calculator and some of the basic concepts involved. There will be plenty of hands-on practice, so bring your calculators!
12:30 – 1:20 pm	**Lunch** (provided)
1:30 – 3:00 pm	**Math in Glass** *Clifford Stoll (Acme Klein Bottles), Lucas Clarke (Simon Fraser University)* This talk and demonstration (which involves hot glass!) will focus on the following questions: • How do you turn ideas into mathematical equations? • How do you turn equations into glass objects? • And how do you turn glass objects into a business? For 25 years, Cliff Stoll has made glass topological models for math and science buffs. He's a physicist with ties to west-coast glassblowers and the mathematics community. Glassworker Lucas Clarke specializes in scientific glassblowing, and is at home on a glass lathe with a torch in his hand. He has collaborated with mathematicians to create novel glass models, including glass knots, knot-compliments, Klein bottle rings, hole-in-a-hole-in-a-hole, and the Thurston Tripus Manifold.

Click here to RSVP (or register at https://math.cornell.edu/math-5080)
Registration Deadline: Friday, April 24, 2020)
Questions? Contact Mary Ann Huntley (huntley@math.cornell.edu)