

New Directions in Applied Mathematics and Number Theory: **A conference in honor of Dorothy Wallace's retirement**

All talks will be held in Haldeman 041 – attached to Kemeny Hall

Friday, June 23th

- 2:00 PM – 2:30 PM Welcome and opening remarks from Sergi Elizalde (dept. chair)
- 2:30 PM – 3:30 PM Clyde Martin (Texas Tech University)
Title: *Where would I be without Dorothy?*
- 3:30 PM – 4:00 PM Yixuan He (Harvard Medical School)
Title: *Prediction and stratification of disease risk through integrative multi-omics analysis of global biobanks*
- 6:00 PM – 10:00 PM Retirement celebration banquet at Venue in downtown Hanover
(Starbucks building – down back)

Saturday, June 24th

- 8:30 AM – 9:00 AM Coffee and Refreshments
- 9:00 AM – 9:15 AM Opening Remarks
- 9:15 AM – 10:15 AM Heiko Enderling (Moffit Cancer Center)
Title: *Mathematical modeling of cancer radiotherapy*
- 10:15 AM – 10:30 AM Break
- 10:30 AM – 11:00 AM Meifang Li (Dartmouth, Geography)
Title: *From Student to Scholar: A Journey of Intellectual Growth with Professor Wallace*
- 11:00 AM – 12:00 PM Bijoy Ghosh (Texas Tech University)
Title: *Nonlinear and Optimal Gaze Pointing Control Problems in Human Binocular Eye Rotation*

- 12:00 PM – 1:30 PM Lunch break
- 1:30 PM – 2:00 PM Alisa DeStefano (Holy Cross)
Title: *A dynamical system on the torus: observability and number theory*
- 2:00 PM – 2:30 PM Jason Rosenhouse (James Madison University)
Title: *Connection Problems in Cayley Graphs of Matrix Groups*
- 2:30 PM – 2:45 PM Break
- 2:45 PM – 3:15 PM Maeve McCarthy (Murray State University)
Title: *A mathematical model of phenotypic plasticity for Arizona Tiger Salamanders*
- 3:15 PM – 3:45 PM Frederika Retzeperis (Icahn School of Medicine)
Title: *Exploiting interactions between ploidy and host physiology in Glioblastoma*
- 3:45 PM – 4:30 PM Closing remarks and reception