

James Madison University

SUMS Conference 2011



Ruth Charney, Brandeis University

From Robotics to Geometry

Children build models with 3-dimensional cubes; mathematicians build them with higher dimensional cubes! Many physical systems can be represented by geometric models based on cubes of varying dimensions. Using an example from robotics, we will investigate how such models are constructed and what can we learn from their strange, but beautiful geometry.



Sir Randolph Bacon III, cousin-in-law to Colin Adams, Williams College

Blown Away: What Knot to Do When Sailing

Being a tale of adventure on the high seas involving great risk to the tale teller, and how an understanding of the mathematical theory of knots saved his bacon. No nautical or mathematical background assumed.

Saturday October 22

Advance registration by Oct. 7

Student talks/posters by Oct. 7

Funding requests by Sept. 22

www.jmu.edu/mathstat/sums