

Texas A&M University: Department of Mathematics

REU/MCTP/UBM/KAUST

Summer Research Mini-Conference: July 28 -29, 2010

Wednesday July 28

9:20-9:30 Jay Walton and Sue Geller: Opening Remarks

Session 1 Moderator: May Boggess

9:30-9:50 Shelby Lee: *Tuberculosis*
10:00-10:20 Jessica Lam: *H1N1*
10:30-10:50 Gabe Davis: *Malaria*
11:00-11:20 Anne Wiley: *AIDS*

Session 2 Moderator: Jay Walton

1:00-1:20 Abel Chan: *Fewnomials*
1:30-1:50 Patrick Davis: *Zebra Mussels*
2:00-2:20 Georgia Pfeiffer: *Matrix Models of Staged Populations*

Session 3 Moderator: Sue Geller

2:50-3:10 Maya Bam, Alex Gendreau, Tiara Henry:
DNA sequencing and polytopes
3:20-3:40 Haley Belli: *Lesion Growth*
3:50-4:10 Junsong Zhao: *Tumor Growth*
4:20-4:50 Mark Houston: *Parabolic-Hyperbolic PDE System*
5:00-5:30 Greg Backus *Bat Calls*

Thursday July 29

Session 1 Moderator: Dave Larson

9:30-9:50 Sylvia Charchut, Joel Coppadge, Kristen Moore, Runqi Song, and Mary Spuches:
Signature Recognition
10:00-10:20 Laura Booton, Suren Jayasuriya, Kristen May, Katie McKeon, and Erika Meza:
Spoken Word Recognition
10:30-10:50 Jason Bathke, Elisabeth Berg, Heather Johnston, Ashley Moore, and Nicholas Spear:
Chord Recognition
11:00-11:20 Ryan Hotovy and Eileen Martin:
Frames on Manifolds

Session 2 Moderator: Maurice Rojas

1:00-1:20 John Myers: *Constant Diagonal Matrices*
1:30-1:50 Kenneth Ascher: *A-discriminants*
2:00-2:20 Kara Grier, Reed Jordan, Katherine Shoemaker, Chelsea Yost, and David Wen:
Symbol Recognition

Session 3 Moderator: May Boggess

2:50-3:10 Patrick Orchard: *Iterated Function Systems*
3:20-3:40 Ryan Hotovy and Sam Scholze:
Binary Frames

Graduate School Overview

3:50-4:20 Paulo Lima-Fihlo: TAMU Mathematics Department
4:30-5:00 Fred Dahm: TAMU Statistics Department