

NIMBioS Investigative Workshop
Algebraic Mathematical Biology - July 25-27
Draft Agenda

Day 1 - July 25

8:00 - 8:45	Breakfast at NIMBioS
8:45 - 9:00	Welcome from NIMBioS and Introductions
9:00 - 9:15	Workshop goals and charge to participants (Raina)
9:15 - 10:15	John Jungck - A BioGraphy of Life (with 15 minutes for discussion)
10:15-10:30	Break
10:30 - 11:30	Debra Knisley - Invited Talk # 1 - Graph-theoretic models of protein structures
11:30 - 12:00	Discussion/activities for Talk # 1
12:00 - 1:00	Lunch
1:00 - 2:00	Jeff Knisley - Invited Talk # 2 - Graphs, networks, vertex weights, and machine learning
2:00 - 2:30	Discussion/activities for Talk # 2
2:30 - 2:45	Break
2:45 - 3:45	Natasha Jonoska - Invited Talk #3 - <i>Graph polynomials and other graph invariants from DNA rearrangements</i>
3:45 - 4:15	Discussion/activities for Talk # 3
4:15- 5:15	Parallel group discussions for Topics # 1, 2, 3; hands-on activities; discussion re specific projects/material development
5:15 - 6:00	Reception at NIMBioS with UT/NIMBioS postdocs and faculty and with the Humans and Climate Change working group

Day 2 - July 26

8:00 - 8:30	Breakfast at NIMBioS
8:30 - 9:15	Raina Robeva - Review of Curricular Materials in Algebraic Biology (with 15 minutes for discussion)
9:15 - 10:15	Mathew Macauley - Boolean Network Models in Biology (with 15 minutes for discussion)
10:15 - 10:30	Break
10:30 - 11:30	Katherine Morrison - Invited Talk # 4 - Predicting neural network dynamics from graph structure
11:30 - 12:00	Discussion/activities for Talk # 4
12:00 - 12:05	Group Picture!
12:05 - 1:00	Lunch
1:00- 2:00	Chad Giusti - Invited Talk # 5 - Detecting structure in neuronal networks
2:00 - 2:30	Discussion/activities for Talk # 5
2:30 - 2:45	Break
2:45 - 3:45	Parallel group discussions for Topics # 4, 5; hands-on activities; discussion re specific projects/material development
3:45 - 4:00	Forming groups by interests/topics that will work together for the rest of the workshop and afterwards
4:00 - 5:30	Parallel group discussions by interests for all topics; hands-on activities;

	projects/material development
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Day 3 - July 27

8:00 - 8:30	Breakfast at NIMBioS
8:30 - 10:15	Parallel group discussions by interests for all topics; hands-on activities; projects/material development
10:15 - 10:30	Break
10:30 - 11:30	Group presentations and reports: project topic, title, scope, target audience, timeline for completion
11:30 - 12:00	Workshop evaluations and closing remarks
12:00 - 1:00	Lunch