

**WELCOME TO THE INAUGURAL
ORIENTATION SESSION FOR THE**

**COMPLEX BIOLOGICAL
SYSTEMS GROUP**

AT THE UNIVERSITY OF PITTSBURGH

AUGUST 23rd, 2008

GROUP MEMBERS:

- Math Faculty: Brent Doiron, Bard Ermentrout, Jonathan Rubin, David Swigon, William Troy, Ivan Yotov
- Training Faculty: Gilles Clermont (Critical Care), Michael Grabe (Biology), David Hackam (Pediatric Surgery), Yoram Vodovotz (Surgery, Immunology)
- Postdocs: [Julia Arciero](#), [Stefanos Folias](#), Cheng Ly
- Graduate Students: O(10) plus new students [Callie Johnson](#), [Sherri Lin](#), [Pamela Reitsma](#), [Tracy Stepien](#)
- Undergraduates: [Kevin Kroll](#), [Vikram Raghu](#), [Christian Woods](#), ??
- High School: [Matt Stoffregen](#)

GROUP ACTIVITIES:

- orientation and recruitment session - TODAY
- weekly research group meeting; this semester = journal club format
 - Neuroscience – Tuesdays, 12 noon, Thackeray 703
 - Inflammation – Thursdays, 12 noon, Thackeray 703
- working group meetings:
 - organized by group members, spontaneously
 - publicize on website, at weekly meetings
- research seminars
 - applied analysis
 - numerics
 - neuroscience (CNUP Neurotransmitter; CNBC)
 - computational biology

- interdisciplinary journal clubs – various on campus, including
barrel cortex (Simons lab, BST 1495, Mon. 9-10 AM)
olfaction (Ermentrout + Urban lab)
basal ganglia/Parkinson's (Rubin + Turner lab)
- biannual Theme Days – 1-2 days with approx. 4 outside speakers on
common theme, organized by postdocs/grad students, target 2 per year
- professional development seminars – leverage university offerings,
several per year
- online presence: www.math.pitt.edu/~cbsg; maintained by David S.
online forum for discussions and feedback
a repository for information on relevant upcoming events
collection of project-related applets
send David an update every time you get a paper accepted,
attend a conference, etc!! cbsg@math.pitt.edu

- development of an undergraduate mathematical biology major
coordinate with Department of Biology
undergrad Comp. Neuro course underway (Doiron)
undergrad Math Bio course
- monthly PI meetings
- group retreat – end of year, 1-day
- also keep an eye on: conference attendance
SIAM Life Sciences, Dynamical Systems...
Computational Neuroscience, Cosyne, SFN
ICCAI, American Physical Society, Shock, ??
regional meetings (Youngstown State, Allegheny Mountain MAA)
Mathematical Biosciences Institute (Ohio State)
Institute for Mathematics and its Applications (U. Minnesota)

RESOURCES ON CAMPUS

Center for Neuroscience at University of Pittsburgh (CNUP -- Pitt)

cnup.neurobio.pitt.edu

Center for the Neural Basis of Cognition (CNBC -- Pitt/CMU)

www.cnbc.cmu.edu

Program in Neural Computation (Pitt/CMU)

Center for Inflammation and Regeneration Modeling (Pitt/CMU)

www.mirm.pitt.edu/cirm

Computational Biology (Pitt/CMU)

PittGrid

Mathematics cluster

Pittsburgh Supercomputing Center

Graduate Student Organization (GSO)

Center for Instructional Development & Distance Ed (CIDDE)

software.pitt.edu

library.pitt.edu

my.pitt.edu