



First Annual

SCHOOL OF INFORMATION THEORY



University Park Campus, Penn State University
June 1-5, 2008

WELCOME

to the School !

Aylin Yener & Gerhard Kramer



Idea

- A European Winter School in Coding and Information Theory has existed since the early 1990s
- Its Purpose: an event where students can get to know each other outside of “large” events
- The idea of having a School in North America began in 2006/07
- The IEEE Information Theory Society BoG supported the idea
- Preparations for this Penn State University event began in Sept. 2007



Organizing Committee

A Big **Thank You** To Our Volunteers

- Debbie Lauder, Penn State University
- Min Chen, Ertugrul Ciftcioglu, Xiang He, Ye Tian
- Student Applications:
 - Sennur Ulukus, Univ. of Maryland
 - Ivana Maric, Stanford
- Publicity and Web:
 - Nick Laneman, Notre Dame
 - Lalitha Sankar, Princeton
 - Brooke Shrader, Univ. of Maryland



Instructors

A Big **Thank You** To Our Teachers

- Today: Muriel Medard, Network Coding
- Tue: David Tse, Relaying & Interference
- Wed: Toby Berger, Bioinformation Theory
- Thursday: Vince Poor,
Information Theory: Past
and Future



Sponsors

A Big **Thank You** To Our Sponsors

- IEEE Information Theory Society
- DARPA
- Princeton University EE
- Penn State EE
- Penn State Networking and Security Research Center (CSE)



Travel Grants

- We will soon hear from a potential sponsor regarding travel grant money
- Procedure: we will
 - put a form on the school web site
 - update you via email once we hear from the sponsor



Local Information

- Registration Package: campus map, restaurants for dinner Mon/Tue/Thu
- Food:
 - Breakfast/Coffee/Lunch in 101 EE East
 - Banquet on Wednesday
- Parking: can't park on campus; use parking structure (Fraser St.)
- Wireless LAN: need photo id
- Attendee list: see registration package



Program: see school.itsoc.org

June 2 Monday	June 3 Tuesday	June 4 Wednesday	June 5 Thursday
<p>Opening remarks</p> <p>3X90min Lectures Muriel Medard: “Network Coding”</p>	<p>3X90min Lectures David Tse: “Interference Channels, Relay Networks, Scaling Laws”</p>	<p>2X90 Lectures Toby Berger: “Bioinformation Theory”</p> <p>Panel: Muriel, David, Toby, Gerhard, Aylin (Mod.) “What Do I Do Now?”</p>	<p>Keynote Vince Poor: “Information Theory: Past and Future”</p>
<p>Student Presentations 4-6:10 pm</p> <p>ITSOC Student Committee Meeting 6:30-7:30 pm</p>	<p>Student Presentations 4-6:20 pm</p>	<p>Student Posters and Presentations 3:00-6:10 pm</p> <p>Banquet 7-9:30</p>	<p>Student Posters and Presentations 10:00-6:10 pm</p>

Presentations

- Each of you will present either a short talk or a poster
- Talk length: 10 minutes
- Poster: 2 sessions (wed,Th)

*The day of your poster session please see **Ye Tian** in the Morning before the lectures and give him your poster so it can be set up.*



Instructions for You

- **Use** this opportunity to learn from and get to know:
 - Muriel, David, Toby, and Vince
 - your fellow students
 - each other's work: make a special effort to learn from, help, and encourage each other
- **ASK** your teachers **QUESTIONS**. They love questions, and you will get their attention.
- Enjoy your time here!



Dedication

- The First Annual School of Information Theory is dedicated to the memory of Sergio Servetto

