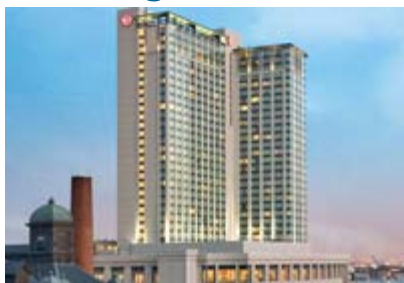


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NISS/SAMSI Affiliate Update

March 2014

Don't Miss This Exciting Affiliates Meeting in Baltimore!



The NISS and SAMSI affiliates meeting will be held in Baltimore March 16, in conjunction with the Eastern North American Region International Biometrics Society's (ENAR) meeting at the [Baltimore Marriott Waterfront](#).

The agenda for this meeting is new and responds to Affiliates' requests. Both official Affiliate Liaisons and their colleagues, especially junior colleagues are invited. The morning will kick off with profiles of NISS and NISS-SAMSI Affiliates activities and opportunities for collaboration.

The focus will then shift to two hard problems - A Cross-Sector High-impact Project and A Cross-Sector Research Opportunity. The informal working lunch will continue discussion from the morning and open discussion on planning for future NISS and SAMSI workshops and programs (lunch registration required).

The afternoon should be of special interest to junior colleagues (everyone is welcome) and will focus on how to become a leader in the profession. Senior leaders in the profession will share their experiences and advice as they outline the challenges the profession faces and the paths to leadership roles in all sectors: academia, industry and government.

All junior colleagues are invited to speak briefly (1-2 slides, 2-5 minutes) to preview their ENAR talks and/or posters. A listing of these ENAR talks with time and place will also be provided to all meeting participants.

All participants are invited to the NISS-SAMSI Affiliates Reception buffet (registration required for participant and guest) before joining the ENAR Mixer. Like all NISS and SAMSI receptions, this promises a great chance for networking with Affiliate colleagues and attendees are invited to offer Affiliates Committee members informal suggestions on future activities and programs.

Act quickly, because the deadline for the [block of rooms](#) that NISS has reserved is **March 10!** Please make sure you register for the [Affiliates meeting here](#). Thanks and see you in Baltimore!

Women in Statistics Conference

NISS and SAMSI are happy to be amongst the organizations sponsoring the Careers of Women in Statistics workshop that will

Featured Affiliate - Iowa State University Statistics Department

The Statistics Department at Iowa State University was established in 1934. It is housed in Snedecor Hall on the Iowa State University Campus in Ames, Iowa. The Statistical Laboratory was the first statistics unit created in the country. It dates from 1933 and is still in operation. This is one of the largest departments of statistics in the nation (and in the world). There are about 38 faculty and 140 graduate students. During any one year, anywhere between 10 and 15 graduate students receive their PhD in Statistics.

To learn more about Iowa State University's Statistics Department, [click here](#).

be held May 15-17, 2014 at the Embassy Suites in Durham, North Carolina. This conference celebrates the achievements and career interests of women in statistics and is for women in all stages of career development, including senior, mid-level and junior-level individuals, as well as students. Professionals from academic, industrial and government institutions will be attending. There will be many networking opportunities including panels, round tables and plenary sessions to help you connect, learn and share with others. Registration will open in early February. NISS and SAMSI affiliates are eligible to use their ARA funds for this conference. For more information about the conference, [click here](#).

SAMSI Events

CMSS Transition Workshop

When: May 5-7, 2014

Where: RTP, NC

[Details here](#).

LDHD Transition Workshop

When: May 12-14, 2014

Where: RTP, NC

[Details here](#).

Education and Outreach

Undergraduate Modeling Workshop

May 18-23, 2014

[Details here](#).

Summer Program: The International Surface Temperature Initiative

Sponsored by SAMSI & Institute for Mathematics Applied to Geosciences

When: July 8-16

Where: Boulder, CO

Deadline to apply: May 1

[Details here](#).

Education and Outreach

Industrial Mathematical and Statistical Modeling Workshop for Graduate Students

When: July 14-22, 2014

Where: Raleigh, NC

More information to come.

Mathematical and Statistical Ecology Opening Workshop

When: August 18-22, 2014

Where: RTP, NC

See below for details.

Bioinformatics Opening Workshop

When: September 8-12, 2014

Where: RTP, NC

See below for details.

Co-Sponsored NISS Events

NOGGINS Workshop

Co-sponsored by University of Georgia Statistics Department

When: April 11, 2014

Where: Athens, Georgia

[Details here](#).

Women in Statistics Conference

Co-sponsored by The Caucus for Women in Statistics

When: May 15-17, 2014

Where: Durham, NC

See story above for details.

SRCOS 2014 Summer Research Conference

When: June 4, 2014

Where: Galveston, TX

[Details here.](#)

Co-Sponsored SAMSI Events

Geometric, Topological and Graphical Model Methods in Statistics: Low-dimensional Structure in High-dimensional Systems

Co-sponsored by CANSSI/Fields Institute

When: May 22-23, 2014

Where: at the Fields Institute in Toronto, Canada

Deadline for Student Support: **April 1**

[Details here.](#)

Recruiting and Retaining Graduate Students in Statistical Sciences and Applied Mathematics

Co-sponsored by National Alliance for Doctoral Studies in the Mathematical Sciences

When: June 5-6, 2014

Where: RTP, NC

Deadline to apply: **March 28**

[Details here.](#)

Computational Methods for Surveys and Census Data in the Social Sciences

Co-sponsored by CANSSI/CRM

When: June 20-21, 2014

Where: Centre de Recherches Mathématiques (CRM) in Montréal, Canada

[Details here.](#)

2014-2015 SAMSI Programs

"[Beyond Bioinformatics, Statistical and Mathematical Challenges](#),"

will look at the statistical and mathematical challenges arising in the analysis of genomic and related data with the goal of addressing relevant biological questions. As genomic and related data are growing more complex, novel methods need to be developed to help with data synthesis and analysis to answer previously inconceivable questions about biological processes. This program will focus on: 1) Statistical pre-processing of emerging high throughput data; 2) Dependence in high-dimensional data; in particular, multivariate discrete counts; 3) Integration of multi-omics data; 4) Modeling dynamics of mixtures, such as populations of cells, variants and meta-genomics; and 5) Big data and machine learning for addressing 'omic issues.

The opening workshop will be held September 8-12, 2014.

Program leaders for "Beyond Bioinformatics" include: Alexander Alekseyenko, NYU School of Medicine; Karin Dorman, Iowa State University; Nick Hengartner, Los Alamos National Lab; Susan Holmes, Stanford University; Katerina Kechris, University of Colorado-Denver; Shili Lin, The Ohio State University; Dan Nettleton, Iowa State University and Hongyu Zhao, Yale University.

"[Mathematical and Statistical Ecology](#)." This program brings together three groups of researchers – statisticians, mathematicians and theoretical ecologists – to study and develop the interactions among different approaches that ecological modeling has developed. One approach is that theoretical ecologists have developed mathematical models that are analyzed using traditional tools of applied mathematics, such as partial differential equations (PDEs) and dynamical systems. These

models are then used to look at resilience, tipping points or other ecological properties. A second approach, typically used by statisticians and data analysts, involves sophisticated statistical tools such as Bayesian hierarchical models that are applied to large spatio-temporal datasets, but often these models are developed without the detailed consideration of nonlinear dynamics. Some of the topics that will be explored through the year include: 1) Critical thresholds and tipping points; 2) Resilience of ecological systems; leading indicators; 3) Multi-scale and multivariate statistical method; 4) Climate and Biodiversity; 5) Implications for public policy. There is also likely to be a joint working group between the two programs, on the topics of Landscape Genomics.

The opening workshop for this program will be held August 25-29, 2014.

Program leaders for "Mathematical and Statistical Ecology" include: Philip Dixon of Iowa State University, Lou Gross of the University of Tennessee and NIMBioS, Jennifer Hoeting of Colorado State University, Mevin Hooten of Colorado State University, Lea Jenkins of Clemson University, Claire Lunch of the National Ecological Observatory Network, Ron McRoberts of the US Forest Service, Jay Ver Hoef of NOAA, and Linda Young of the National Agricultural Statistics Service.

More information about either of these programs and how to get involved can be found on the SAMSI website:

<http://www.samsi.info>.

NISS and SAMSI

P.O. Box 14006, Research Triangle Park, NC
www.niss.org and www.samsi.info



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