

NISS



NISS Affiliates NISS SAMSI University Affiliates 2005 Annual Meeting

March 4, 2005

Agenda

| Thursday, March 3 | |
|-------------------|------------------------------------|
| AM | Affiliates Problem Morning |
| PM | NISS Software Afternoon |
| Evening | Annual Affiliates Dinner |
| Friday, March 4 | |
| 8:00 AM | University Affiliates Breakfast |
| 9:30 | Welcome and Introductions |
| 9:40 | Report and Plans: NISS and SAMSI |
| 11:00 | Three-Minute Madness |
| 12:00 N | Lunch with NISS and SAMSI Postdocs |
| 1:30 PM | Cluster Meetings |
| 2:45 | Cluster Reports |
| 3:30 | Adjourn |

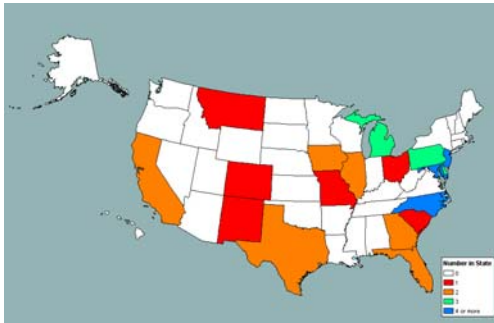
Current NISS Affiliates

- **Corporate:** Avaya Labs, Aventis Pharmaceuticals, General Motors, GlaxoSmithKline, Golden Helix Inc., ICAGEN Inc., Merck & Company, Metabolon, Inc., MetaMetrics, Inc., RTI International, SAS Institute, SPSS, Telcordia Technologies
- **Federal agency + national lab:** Bureau of Labor Statistics, Census Bureau, Los Alamos National Laboratory, National Agricultural Statistics Service, National Center for Education Statistics, National Center for Health Statistics, National Institute of Standards and Technology, National Security Agency

Current NISS-SAMSI University Affiliates

UCLA (Statistics & Statistical Consulting Center), Carnegie Mellon (Statistics), Duke (Statistics and Decision Sciences & Mathematics), Emory (Biostatistics), Florida (Biostatistics & Statistics), Florida State (Statistics), Georgia (Statistics), Illinois Urbana-Champaign (Statistics), Iowa (Statistics), Iowa State (Statistics), Johns Hopkins (Applied Mathematics/Statistics), Michigan (Statistics & Biostatistics), Missouri-Columbia (Statistics), North Carolina State University (Mathematics; Statistics), North Carolina at Chapel Hill (Biostatistics; Mathematics; Statistics/Operations Research), Oakland (Mathematics/Statistics), Ohio State (Statistics), Pennsylvania State (Statistics), Rice (Statistics), Rutgers (Statistics), South Carolina (Statistics), Southern Methodist (Statistical Science), Stanford (Statistics), Texas A&M (Statistics)

Geographical Distribution of Affiliates



Affiliates Activities—2004

| Event | Date | Location | Affiliate Attendance |
|--|--------------------|------------|----------------------|
| SAMSI DMML Mid-Year Workshops | 1/28, 2/4, 2/11/04 | NISS/SAMSI | 25 |
| SAMSI Undergraduate Workshop | | NISS/SAMSI | 5 |
| Problem Day | 3/4/04 | NISS | 25 |
| Planning Meeting | 3/5/04 | NISS | 30 |
| SAMSI DMML Closing Workshop | 5/17-18/04 | RTP | 20 |
| SAMSI Internet Closing Workshop | 6/25-26/04 | NISS/SAMSI | 15 |
| JSM Affiliates Meeting | 8/8/04 | Toronto | 35 |
| SAMSI LVSS Kickoff Workshop | 9/11-14/04 | RTP | 40 |
| SAMSI CompBio Kickoff Workshop | 9/19-22/04 | RTP | 30 |
| SAMSI Multiscale Closing Workshop | 9/27-28/04 | NISS/SAMSI | 5 |
| Workshop: Statistical Issues in Counterterrorism | 11/20/04 | New York | 5 |

Affiliates Events—2005

| Event | Date | Location |
|--|-------------|-------------|
| SAMSI Data Assimilation Kickoff Workshop | 1/23-26/05 | RTP |
| SAMSI Undergraduate Outreach Days | 2/18-19/05 | NISS/SAMSI |
| SAMSI Workshop: Data Assimilation ... | 2/22-25/05 | IPAM |
| Annual Meeting | 3/3-4/05 | NISS |
| Workshop: Total Survey Error | 3/17-18/05 | DC |
| SAMSI LVSS Causality Mini-Workshop | 3/29/05 | NISS/SAMSI |
| Workshop: Latent Variable Models and Survey Data... | 5/4-6/05 | Montreal |
| SAMSI LVSS Closing Workshop | 5/19-21/05 | RTP |
| SAMSI CompBio Closing Workshop | 5/22-24/05 | RTP |
| SAMSI Undergraduate Workshop | 5/30-6/3/05 | NCSU |
| SAMSI Workshop: Fusing Geophysical Models with Data | 6/11-17/05 | Boulder, CO |
| SAMSI Technology Transfer Course: DMML | 6/05 | NISS/SAMSI |
| SAMSI Workshop: Random Graphs and Stochastic Computation | 6/13-14/05 | NISS/SAMSI |

Affiliates Events—2005

| Event | Date | Location |
|---|-------------|----------------|
| Technology Day: Metabolomics | Summer 2005 | NISS |
| IMSMW '05 | 7/25-8/2/05 | NCSU |
| JSM Affiliates Meeting | 8/7/05 | Minneapolis |
| NISS/SAMSI JSM Reception | 8/8/05 | Minneapolis |
| Workshop: SDL for Geospatial Data | Fall 2005 | NISS |
| SAMSI NDHS Kickoff Workshop | 9/11-14/05 | RTP |
| SAMSI FMSE Kickoff Workshop | 9/17-20/05 | RTP |
| Workshop: Overarching Issues in Risk Assessment | 10/05 | Ames, IA (ISU) |

Affiliates Events—2006

| Event | Dates | Location |
|------------------------------|------------|------------|
| SAMSI ASTRO Kickoff Workshop | 1/22-25/06 | RTP |
| SAMSI FMSE Closing Workshop | 2/26-28/06 | RTP |
| Affiliates Annual Meeting | 3/2-3/06 | NISS |
| SAMSI NDHS Closing Workshop | 5/15-16/06 | RTP |
| SAMSI ASTRO Closing Workshop | 6/11-14/06 | Penn State |

2005—The Year of the Affiliate

- Goals
 - Customized NISS-Affiliate relationships, focused on long-term value provided by NISS to the affiliates
 - Increased number and diversity of affiliates
 - More events at affiliates' sites
 - NISS: registration, \$ for travel, ...
 - Affiliate: facilities, on-site staff
- Mechanisms
 - Visits to affiliates
 - Quarterly updates on NISS research
 - Increased affiliate contact with postdocs
 - Review of
 - Fee structure
 - How the program is "governed"

New Opportunities for Affiliates

- Restructured Affiliates Proposal Development Fund (APDF)
 - \$25K pool
 - Proposals accepted for up to \$25K
 - No cost sharing requirement
 - Funds can remain at NISS

More New Opportunities

- NISS New Researcher Awards
 - Targeted at those within 6 years of PhD
 - Support for 1 month salary and expenses to come to NISS and become engaged in an ongoing NISS project—and follow-ons
 - Can be paid through NISS or home institution
 - Open to all; preference to affiliates
 - To begin in 2006

Continuing Opportunities

- Sacks Award
 - Streamlined nomination process: see www.niss.org/sacksaward/sacksaward-nominations05.html

The Current NISS Research Portfolio

- Digital government: Risk-utility formulations
- Software engineering: Lightweight instrumentation of fielded software (performance, profiling, testing,...)
- Dynamics of social networks: Comparison of p* and intelligent agent models
- Drug discovery to cure Huntington's disease
- Pharmacophore identification
 - Produced patent application
- NCES studies
 - Task Force on High School Graduation, Completion and Dropout Rates
 - Task Force on Participation Rates in International Assessments
 - OCR study: use of surveys to demonstrate Title IX compliance

NISS Research Initiatives

- Data quality
 - Under development with DQRI
- Drug discovery
 - Collaborative proposals with Harvard, Metabolon, NCSU
- Software engineering
 - Under development with UMaryland
- SDL for geospatial data
 - Exploratory project with CMU, UIowa

Other Developments at NISS

- Adoption of Strategic Vision
- Formation of Board Committees
 - Affiliates (Lee Wilkinson, chair)
 - Awards (Jessica Utts, chair)
 - Building (Jon Kettenring, chair)
 - History (William Eddy, chair)
 - National Presence (Sally Morton, chair)
 - Science (Judith Lessler, chair)

Further Developments at NISS

- Appointment of Associate Director
 - Will join in summer of 2005
 - Will serve on SAMSI directorate
 - Special responsibility for NISS and SAMSI postdoc programs
- SAMSI Third-Year Review
 - March 16-18
- Creation of NISS Distinguished Service Award

NISS-SAMSI Relationships

- NISS gives SAMSI
 - Through affiliates, a path for the stat and applied math communities to generate SAMSI programs
 - Access to challenging problems
 - Path to transfer SAMSI technology
- SAMSI gives NISS
 - Access to talented people
 - Visibility
- NISS and SAMSI share
 - Affiliates programs
 - Facilities
 - Leadership
 - Postdoctoral appointments and activities
 - Staff
 - Other events



Current NISS and SAMSI Postdocs

| Name | Ph. D. Univ. | Principal Activity | Next Year |
|--------------|-----------------------|---------------------------|------------------|
| Amit Apte | U Texas | SAMSI DA | ?? |
| Jun Feng | UNC | NISS HDF | ?? |
| Shree Kahre | Princeton | SAMSI DA | NCAR |
| Hoan Nguyen | Virginia Tech | SAMSI LVSS | CRSC |
| Anna Oganian | Catalonia Polytechnic | NISS data confidentiality | NISS |
| Jesus Palomo | Madrid | SAMSI LVSS | Shared with Duke |
| Surajit Ray | Penn State | SAMSI COMPBIO | UNC |
| Jane Zavisca | California Berkeley | SAMSI LVSS | U Arizona |
