

## Crime Hot Spots: Behavioral, Computational and Mathematical Models

**Monday January 29, 2007**

- 8:00–12:00 *General Concepts*
- 8:00–8:50 *Check-In/Light Breakfast (Hosted by IPAM)*
- 8:50–9:00 **P. Jeffrey Brantingham** (University of California, Los Angeles (UCLA))
- 9:00–10:00 **Patricia Brantingham** (Simon Fraser University)  
*Crime Hot Spots: Joining theory and practice through computational and mathematical modeling*
- 10:00–10:30 *Break*
- 10:30–11:30 **Marcus Felson** (Rutgers University-Newark)  
*Parsing and Modeling Crime Routines*
- 11:30–1:30 *Lunch (on your own)*
- 1:30–2:30 **John Eck** (University of Cincinnati)  
*Simulating Police Outcomes: A Framework for Understanding Policing Strategies*
- 2:30–3:30 **William Newman** (UCLA)  
*Gang Recruitment and Growth: A Cellular Automata and Directed Graph Approach to the Statistics of Gang Sizes*
- 3:30–4:00 *Break*
- 4:00–5:00 **Ira Schwartz** (Naval Research Laboratory)  
*The dynamics of epidemics: An overview of social modeling and analysis methods*
- 5:00–6:30 *Wine/Cheese Reception (Hosted by IPAM)*

**Tuesday January 30, 2007**

- 8:00–12:00 *Environments & Aggregation*
- 8:00–9:00 *Continental Breakfast*
- 9:00–10:00 **Bill Hillier** (University College London)  
*BEYOND HOT SPOTS: using space syntax to understand dispersed patterns of crime risk in the built environment*
- 10:00–10:30 *Break*

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- 10:30–11:30 **Gabriel Istrate** (Los Alamos National Laboratory)  
*Towards Synthetic Activity-based Models for Large-scale Socio-technical Simulations*
- 11:30–1:30 *Lunch (on your own)*
- 1:30–2:30 **Kate Bowers** (University College London)  
*Crime Risk Models Specifying Boundaries and Environmental Backcloths*
- 2:30–3:30 **Sid Redner** (Boston University)  
*Social Balance on Networks: The Dynamics of Friendship and Hatred*
- 3:30–4:00 *Break*
- 4:00–5:00 **Eli Ben-Naim** (Los Alamos National Laboratory)  
*Randomness in Competitions*

### Wednesday January 31, 2007

- 8:00–12:00 *Patterns in Time & Policing*
- 8:00–9:00 *Continental Breakfast*
- 9:00–10:00 **Shane Johnson** (University College London)  
*The Timing of Repeat-Victimization: Theory and Utility*
- 10:00–10:30 *Break*
- 10:30–11:30 **Rick Schoenberg** (University of California, Los Angeles (UCLA))  
*Applications of space-time point processes in wildfire forecasting*
- 11:30–1:30 *Lunch (on your own)*
- 1:30–2:30 **Chief George Gascon** (City of Mesa)
- 2:30–3:30 **Neil Johnson** (University of Oxford)  
*Common patterns in violent crime, conflict and terrorism: From Colombia to Iraq*
- 3:30–4:00 *Break*
- 4:00–5:00 **Michael Townsley** (University College London)  
*Near repeat burglary chains: describing the physical and network properties of a network of close burglary pairs*

## Thursday February 1, 2007

- 8:00–12:00 *Patterns in Time & Space*
- 8:00–9:00 *Continental Breakfast*
- 9:00–10:00 **Richard A. Berk** (University of Pennsylvania)  
*Forecasting Murder and Other Serious Crimes*
- 10:00–10:30 *Break*
- 10:30–11:30 **Wim Bernasco** (Netherlands Institute for the Study of Crime and Law Enforcement)  
*Foraging Strategies Of Homo Criminalis: Lessons From Behavioral Ecology*
- 11:30–1:30 *Lunch (on your own)*
- 1:30–2:30 **Henri Berestycki** (École des Hautes Études en Sciences Sociales)  
*Modelling spatial propagation: From flames to the diffusion of crime*
- 2:30–3:30 **Henk Elffers** (Netherlands Institute for the Study of Crime and Law Enforcement)  
*Back to basics in spatial criminology*
- 3:30–4:00 *Break*
- 4:00–5:00 **Igor Mezic** (UC Santa Barbara)  
*Alcohol and Violence: Agent-Based Models*

## Friday February 2, 2007

- 8:00–12:00 *Patterns in Space*
- 8:00–9:00 *Continental Breakfast*
- 9:00–10:00 **George Rengert** (Temple University)  
*Spatial Clustering of Illegal Drug Dealers: Swarming for Safety or Agglomeration for Profit*
- 10:00–10:30 *Break*
- 10:30–11:30 **Uwe Glaesser** (Simon Fraser University)  
*Computational Modeling and Simulation of Spatiotemporal Characteristics of Crime in Urban Environments*
- 11:30–1:30 *Lunch (on your own)*
- 1:30–2:30 **Lin Liu** (University of Cincinnati)  
*The Role of Street Patterns in Crime Simulation and Analysis*
- 2:30–3:30 **Clayton Morrison** (University of Southern California)  
*Using Large-scale Multi-agent Simulation to Study Methods for the Detection, Tracking and Prediction of Threats*
- 3:30–4:00 *Break*

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4:00–5:00     **Michael O’Leary** (Towson University)

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