

# BioSecure 2008

Pre-Conference Workshop @ 2008 ISDS Seventh Annual Conference  
Raleigh, North Carolina, USA  
December 2, 2008

## Conference at a Glance

*(Note: Subject to change)*

Time	Session	Location
7:30 - 8:15 am	--- Continental Breakfast ---	University Ballroom A
8:15 - 8:20 am	Opening Remarks by Workshop Chairs	Congressional Ballroom A
8:20 - 8:50 am	Invited Presentation: "Surveillance for Food Safety" By Col. John Hoffman, DHS	Congressional Ballroom A
8:50 - 10:10 am	Session 1: <b>Informatics Infrastructure and Policy Considerations</b> <i>(4 papers)</i>	Congressional Ballroom A
10:10 - 10:35 am	--- Morning Break ---	
10:35 - 11:55 am	Session 2: <b>Bio-Surveillance Event and Network-based Data Analytics</b> <i>(4 papers)</i>	Congressional Ballroom A
11:55 - 1:20 pm	--- Lunch ---	University Ballroom A
1:20 - 2:40 pm	Session 3: <b>Biosurveillance Models and Outbreak Detection</b> <i>(4 papers)</i>	Congressional Ballroom A
2:40 - 3:00 pm	--- Afternoon Break I ---	
3:00 - 4:00 pm	Session 4: <b>Model Assessment and Case Studies</b> <i>(3 papers)</i>	Congressional Ballroom A
4:00 - 4:20 pm	--- Afternoon Break II ---	
4:20 - 5:20 pm	Session 5: <b>Environmental Biosurveillance and Case Studies</b> <i>(3 papers)</i>	Congressional Ballroom A
5:20 - 5:40 pm	Poster Session Set-up	University Ballroom A
5:40 - 7:30 pm	Poster Session and Reception	University Ballroom A

# Conference Schedule & Program

## Locations:

- ◇ All conference presentations shall take place in Congressional Ballroom A.
- ◇ Continental breakfast, lunch and the poster session and conference reception shall take place in University Ballroom A.

Time	Session
7:30 - 8:15 am	-- Continental Breakfast --
8:15 - 8:20 am	<b>Opening Remarks by Workshop Chairs</b>
8:20 - 8:50 am	<b>Invited Presentation: “Surveillance for Food Safety”</b> By Col. John Hoffman, DHS
8:50 - 10:10 am	<p><b>Session 1: Informatics Infrastructure and Policy Considerations</b></p> <ul style="list-style-type: none"> <li>◇ Public Health Information Fusion for Situation Awareness <i>Henry Rolka, Jean C. O'Connor and David Walker</i></li> <li>◇ Biosurveillance, Case Reporting, and Decision Support: Public Health Interactions with a Health Information Exchange <i>Rebecca A. Hills, William B. Lober and Ian S. Painter</i></li> <li>◇ Foresight China II: Identification and Detection of Infectious Diseases <i>Jiayuan Feng, Jianshi (Jesse) Huang, Angus Nicoll</i></li> <li>◇ Public Health Preparedness Informatics Infrastructure. A Case Study in Integrated Surveillance and Response: 2004-2005 National Influenza Vaccine Shortage <i>Ivan Gotham, Linh H. Le, Debra Sottolano, and Kathryn J. Schmitt</i></li> </ul>
10:10 - 10:35 am	-- Morning Break --
10:35 - 11:55 am	<p><b>Session 2: Bio-Surveillance Event and Network-based Data Analytics</b></p> <ul style="list-style-type: none"> <li>◇ Bio-Surveillance Events, Open Source Intelligence, and the Semantic Web <i>Nancy Grady, Lowell Vizenor, Jeanne Sappington Marin, and Laura Peitersen</i></li> <li>◇ Dynamic Network Model for Predicting Occurrences of Salmonella at Food Facilities <i>Purnamrita Sarkar, Lujie Chen and Artur Dubrawski</i></li> <li>◇ Network-based Analysis of Beijing SARS Data <i>Xiaolong Zheng, Daniel Zeng, Aaron Sun, Yuan Luo, Quanyi Wang, Fei-yue Wang</i></li> <li>◇ Tutte Polynomials and Topological Quantum Algorithms in Social Network Analysis for Epidemiology, Bio-Surveillance and Bio-Security <i>Mario Vélez, Doracelly Hincapié and Juan Ospina</i></li> </ul>

11:55 - 1:20 pm	-- Lunch --
1:20 - 2:40 pm	<p>Session 3: <b>Biosurveillance Models and Outbreak Detection</b></p> <ul style="list-style-type: none"> <li>◇ Integrating a Commuting Model with the Bayesian Aerosol Release Detector <i>Aurel Cami, Garrick L. Wallstrom and William R. Hogan</i></li> <li>◇ A Temporal Extension of the Bayesian Aerosol Release Detector <i>Xiaohui Kong, Garrick L. Wallstrom and William R. Hogan</i></li> <li>◇ A Z-Score Based Multi-level Spatial Clustering Algorithm for the Detection of Disease Outbreaks <i>Jialan Que, Fu-Chiang Tsui and Jeremy Espino</i></li> <li>◇ Thresholds in SIR and SIIR Models Applying an Algorithmic Method <i>Doracelly Hincapié P. and Juan Ospina</i></li> </ul>
2:40 - 3:00 pm	-- Afternoon Break I --
3:00 - 4:00 pm	<p>Session 4: <b>Model Assessment and Case Studies</b></p> <ul style="list-style-type: none"> <li>◇ Test Power for Drug Abuse Surveillance <i>Jarad Niemi, Meredith Smith and David Banks</i></li> <li>◇ Assessing the Accuracy of Spatiotemporal Epidemiological Models <i>James H. Kaufman, Joanna L. Conant, Daniel A. Ford, Wakana Kirihata, Barbara Jones, and Judith V. Douglas</i></li> <li>◇ Simulation of Multivariate Spatial-Temporal Outbreak Data for Detection Algorithm Evaluation <i>Min Zhang, Xiaohui Kong, and Garrick L. Wallstrom</i></li> </ul>
4:00 - 4:20 pm	-- Afternoon Break II --
4:20 - 5:20 pm	<p>Session 5: <b>Environmental Biosurveillance and Case Studies</b></p> <ul style="list-style-type: none"> <li>◇ Environmental Biosurveillance for Epidemic Prediction: Experience with Rift Valley Fever <i>Jean-Paul Chretien, Assaf Anyamba, Jennifer Small, Compton J. Tucker, Seth C. Britch and Kenneth J. Linthicum</i></li> <li>◇ Analysis and Prediction of Epidemiological Trend of Scarlet Fever from 1957 to 2004 in the Downtown Area of Beijing <i>Yanhui Shen, Chu Jiang and Zhe Dun</i></li> <li>◇ Spatial Regression-based Environmental Analysis in Infectious Disease Informatics <i>Daniel Zeng, Ping Yan, and Su Li</i></li> </ul>
5:20 - 5:40 pm	Poster Session Set-up ( <i>for <u>all</u> authors</i> ) ( <i>Location: University Ballroom A</i> )
5:40 - 7:30 pm	Poster Session and Reception ( <i>includes refreshments/light meal</i> ) ( <i>Location: University Ballroom A</i> )