



Exploring Interconnections: A Network Dynamics Workshop for Understanding and Preventing Adolescent and Young Adult Substance Abuse

*Natcher Conference Center, Balcony B
Bethesda, Maryland
January 13 – 14, 2010*

Draft Agenda

Day One

Wednesday, January 13, 2010

8:30 – 9:00 a.m.

Registration

Welcome and Overview

9:00 – 9:30 a.m.

9:00 – 9:10 a.m.

Welcome and Introductions

Wilson Compton, M.D., M.P.E.

National Institute on Drug Abuse

9:10 – 9:30 a.m.

Observations on the Use of Network Analysis in the Social Sciences

Thomas Valente, Ph.D.

Keck School of Medicine of the University of Southern California

To review how the theory of networks have been applied to social phenomena.

State of the Art Panel One: Methodological Highlights

9:30 – 11:00 a.m.

Chair

Elizabeth Ginexi, Ph.D.

National Institute on Drug Abuse

9:30 – 10:00 a.m.

Martin Y. Iguchi, Ph.D.

University of California, Los Angeles School of Public Health

To summarize findings from the NIDA-funded Sexual Acquisition and Transmission of HIV Cooperative Agreement Program (SATH-CAP).

10:00 – 10:30 a.m.

John Light, Ph.D.

Oregon Research Institute

To discuss SIENA, a recently developed statistical methodology specifically designed to estimate models of evolving social networks and co-evolving behavior to examine deviance-prone peer groups and toxic peer contagion as a Nonlinear Dynamic System (NDS).

10:30 – 11:00 a.m.

Michael J. Mason, Ph.D.

Villanova University

To describe exploratory research that analyzes the linkages between mental health, social networks, and activity spaces (routine locations) of substance using and non-substance using urban adolescents.

11:00 – 11:20 a.m.

Break

State of the Art Panel Two: Epidemiology, Prevention, and Services Research Highlights

11:20 a.m. – 2:30 p.m.

Chair

Thomas Brady, Ph.D.

National Institute on Drug Abuse

11:20 – 11:50 a.m.

Wayne Osgood, Ph.D.

The Pennsylvania State University

To discuss friendship networks and emergence of substance use in the large drug use prevention trial (PROSPER).

11:50 – 12:20p.m. **Lee D. Hoffer, Ph.D., M.P.E.**
Case Western Reserve University

To describe the integration of network and spatial dynamics in substance use epidemiology and explain the potential of agent-based modeling methods.

12:20 – 1:30 p.m. **Lunch (On Your Own)**

1:30 – 2:00 p.m. **Bernice A. Pescosolido, Ph.D.**
Indiana University

To share the challenges and opportunities of social network analyses for stimulating new research in the field of health services.

State of the Art Panel Three: Blending Social, Biological, and Environmental Perspectives
2:00 – 4:20 p.m.

Chair

Vivian B. Faden, Ph.D.

National Institute on Alcohol Abuse and Alcoholism

2:00 – 2:30 p.m. **Read Montague, Ph.D.**
Baylor College of Medicine

To discuss the neurobiology of decision-making in social contexts.

2:30 – 2:50 p.m. **Break**

2:50 – 3:20 p.m. **Gregory Berns, Ph.D.**
Emory University

To describe the neurobiology of risk-taking and peer influence

3:20 – 3:50 p.m. **Stephen Suomi, Ph.D.**
Eunice Kennedy Shriver National Institute of Child Health and Human Development

To describe recent findings concerning G x E interactions, behavioral and biological risks associated with adolescence, and some very new and

exciting data regarding epigenetic processes that appear to affect a significant part of the rhesus monkey genome.

3:50 – 4:20 p.m.

Moshe Szyf, Ph.D.
McGill University

To describe recent research in epigenetics and the social environment that highlight topical areas (child abuse, suicide, etc.) that tie into the meeting's context.

4:20 p.m.

Day One Adjournment

DRAFT

Day Two
Thursday, January 14, 2010

9:00 - 9:10 a.m. Welcome and Introductions

Nora D. Volkow, M.D.
Director
National Institute on Drug Abuse

State of the Art Panel Four: Impact of Technology on 'Place & Space'

9:10 – 11:30 a.m.

Chair
Ron Edgar, Ph.D.
National Institute on Drug Abuse

9:10 – 9:40 a.m. Megan Moreno, M.D.
University of Wisconsin School of Medicine and Public Health

To describe how adolescents and young adults utilize social networking sites, what health information they display and the potential of the Internet for delivery of prevention interventions.

9:40 – 10:10 a.m. Julia Lane, Ph.D.
National Science Foundation

To describe how innovations in cyberinfrastructure are affecting the direction of behavioral and social sciences.

10:10 – 10:40 a.m. Marta C. González, Ph.D.
Massachusetts Institute of Technology

To discuss the impact of mobile computing devices on epidemiologic research.

10:40 – 11:00 a.m. Break

11:00 – 11:30 p.m. Alessandro Vespignani, M.D.
Indiana University

To describe the emergence of techno-social systems and research progress on building cyberinfrastructure for epidemic and social contagion phenomena affecting public health.

Hot Topic: Network Dynamics and Health
11:30 – 12:30pm

Chair

John Haaga, Ph.D.

National Institute on Aging

11:30 – 12:30 p.m. **Nicholas Christakis, M.D, Ph.D., M.P.H.**
Harvard Medical School

To discuss advances in supradynamic network dynamics using longitudinal data—happiness, obesity, smoking, and genetic variation.

Summary and Concluding Remarks

12:30 – 1:10 p.m.

12:30 – 1:00 p.m. **Summary Remarks**

Myron Gutmann, Ph.D.

National Science Foundation

1:00 – 1:10 p.m. **Concluding Remarks**

Wilson Compton, M.D., M.P.E.

National Institute on Drug Abuse

1:10 p.m. **Adjournment**