

PROGRAM

FOURTH ANNUAL
SUNBELT SOCIAL NETWORK CONFERENCE

Hotel Westcourt
Phoenix, Arizona

February 7-19, 1984

Sponsored by

ARIZONA STATE UNIVERSITY

Center for Public Affairs
and
Department of Anthropology

and

THE INTERNATIONAL NETWORK FOR SOCIAL NETWORK ANALYSIS

Organizers

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and

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SUNBELT SOCIAL NETWORK CONFERENCE

10 FRIDAY AFTERNOON

2:00 Registration

3:00 Keynote Address, "Agency via Networks"
Professor Harrison White, Department of Sociology,
Harvard University

11 FRIDAY AFTERNOON: SESSION A, 4:00 - 7:00

SOCIAL SUPPORT NETWORKS

Organizer: Manuel Barrera (Arizona State, Psychology)

4:00 Gary Hurd (Medical College of Georgia). "Structural
Constraints on the Provision of Social Support."

4:20 David Jacobson (Brandeis, Anthropology). "Stress, Support,
and Support Networks."

4:40 W.H. Kuo (Utah, Sociology). "The Nature of Social Support
Among Close Ties."

5:00 BREAK

5:30 D.L. Morgan (UC-Riverside, Sociology). "Beyond the Crisis
Mentality: Preventive Aspects of Social Support."

5:50 Diana Oxley, Carol Werner, and Irwin Altman (Utah). "Neigh-
boring as an Environmental, Temporal, and Social
Phenomenon."

6:10 Jeff Shaw (CUNY, Psychology). "The Sources of Social
Support: The Development of a Valid and Reliable
Inventory."

6:30 Barry Wellman (Toronto, Sociology). "Sex, Work, and
Networks."

12 FRIDAY AFTERNOON: SESSION B, 4:00 - 7:00

NETWORK MEASUREMENT

Organizers: Frances Sim (Penn State, Sociology) and John
Sonquist (UC-Santa Barbara, Sociology)

4:00 Frances Sim, Michael Johnson (Penn State, Sociology), and
Robert Milardo (Maine, Orono). "Some Sources of
Systematic Error in the Measurement Ties of Affection
and Communication."

4:20 Bonnie Erickson (Toronto, Sociology). "Interaction
Frequency: Reports Versus Records."

4:40 Peter Carrington (Toronto, Sociology) and Bonnie Erickson
(Toronto, Sociology). "Empirical Assessment of Robust-
ness in Blockmodelling Using Repeated Samples and
Population-Sample Comparisons."

5:00 BREAK

5:30 Karen E. Campbell, Jeanne S. Hurlbert, and Peter V. Marsden
(North Carolina at Chapel Hill, Sociology). "Socio-
economic Status and Network Range."

5:50 John Sonquist and Hugh Kawabata (UC-Santa Barbara, Sociol-
ogy). Title to be announced.

6:10 Peter D. Killworth (Cambridge), H. Russell Bernard, and
Christopher McCarty (Florida, Anthropology). "Measuring
Patterns of Acquaintanceship."

6:30 Peter Mariolis (Spelman College, Sociology). "Coherence in
Graphs and Hypergraphs: Conceptualization, Measurement,
and Applications."

6:50 Douglas White (UC-Irvine, Social Science). Discussant.

20 SATURDAY MORNING: SESSION A-1, 9:00 - 10:00

SOCIAL NETWORKS IN ETHNIC RELATIONS

Organizer: Susan Greenbaum (South Florida, Anthropology)

9:00 Susan Greenbaum (South Florida, Anthropology). "The
Structure of Social Networks in a Predominantly Slavic
Inner-City Neighborhood."

9:20 Bruce Miller (Arizona State, Anthropology). "Centrality
and Measures of Regional Structure in Aboriginal Western
Washington."

9:40 Young Y. Kim (Governors State, Communication). "Social
Networks and Interethnic Communication: A Review and
Synthesis."

10:00 BREAK

21 SATURDAY MORNING: SESSION A-2, 10:30 - 12:00

ORGANIZATIONAL NETWORKS

Organizer: Judith Blau (SUNY-Albany, Sociology)

10:30 David Knoke (Indiana, Sociology) and Edward O. Laumann
(Chicago, Sociology). "Communications Among Organiza-
tions in National Policy Domains."

- 10:50 Judith Blau (SUNY-Albany, Sociology). "The Professional Firm and Risks of the Market."
- 11:10 Young-Seok Kim, Everett M. Rogers, and June Flora (Stanford, Communication). "Interorganizational Networks in Two California Communities."
- 11:30 Joel Levine (Dartmouth, Mathematical Social Science). Title to be announced.

22 SATURDAY MORNING: SESSION B, 9:00- 12:00

EMERGENT NETWORK PROPERTIES

Organizer: John Boyd (UC-Irvine, Social Sciences)

- 9:00 Malcolm Dow and James Cheverud (Northwestern, Anthropology). "Network Autocorrelation Effects of Phylogenetic Inertia on Sexual Dimorphism in Primates."
- 9:20 Eugene Johnson (UC-Santa Barbara). "Triads and Global Network Structure."
- 9:40 William Batchelder (UC-Irvine, Social Sciences). "New Structural Properties of Complete Signed Graphs."
- 10:00 BREAK
- 10:30 Stephen B. Seidman (George Mason, Mathematics). "Structural Consequences of Individual Position in Non-dyadic Social Networks."
- 10:50 John Boyd (UC-Irvine, Social Sciences). "Global Relational Structures from Local Processes."
- 11:10 Martin G. Everett (Thames Polytechnic, Mathematics). "A New Definition for the Dimension of a Graph."

23 SATURDAY MORNING: SESSION C-1,2, 9:00 - 12:00 (continued at 4:00)

NETWORKS THROUGH TIME

Organizer: Alvin Wolfe (South Florida, Anthropology)

- 9:00 Patrick Doreian (Pittsburgh, Sociology). "Ten Years of Citation" or "Network Change in Kapferer's Tailor Shop."
- 9:20 George Barnett (SUNY-Buffalo). "Longitudinal Network Analysis Using Multidimensional Scaling."
- 9:40 Noah Friedkin (UC-Santa Barbara, Education) and Charles Bidwell (Chicago, Education). "Structural Theories and Simulation Models of Consensus Production."

10:00 BREAK

- 10:30 Ronald Rice (USC, Annenberg School) and George Barnett (SUNY-Buffalo). "Group Networking Through Time and Electronic Space: Applying Metric Multidimensional Scaling."

- 10:50 Linton C. Freeman (UC-Irvine, Social Science). "On Using Multidimensional Scaling in Studying Network Change."

30 SATURDAY AFTERNOON

12:00 BREAK

- 1:00 BANQUET LUNCHEON (By prior reservation)
Lunch Discussion: "Computer Programs for Social Network Analysis." John Sonquist, (UC-Santa Barbara, Sociology) Organizer.

40 SATURDAY AFTERNOON: SESSION S-1, 3:00 - 4:00

SUMMARY REPORTS OF RECENT RESEARCH

Organizer: Gary Hurd (Medical College of Georgia, Psychiatry)

- 3:00 Rick Catalano and David Hawkins (U Washington). "Relationship of Ego-Centered Networks and Treatment of Alcohol Abuse."
- 3:12 H. Thomas Hurt (North Texas State, Speech Communication) and John A. Cook (Texas Tech, Speech Communication). "Social and Task Networks, Classroom Environment Perceptions, Communication Apprehension, and Learning Outcomes: An Impact Assessment."
- 3:24 Paul St. John Parker (Portland State, Research Institute for Human Services). Title to be announced.
- 3:36 Mary Youngquist and Paul Ruff (Family Networks, Inc.). "Networking in a Day Therapy Program for Adolescents."
- 3:48 Dana Raphael (Human Lactation Center). Title to be announced.

41 SATURDAY AFTERNOON: SESSION S-2, 3:00 - 4:00

SUMMARY REPORT OF RECENT RESEARCH - B

Organizer: Ronald Rice (USC, Annenberg School)

- 3:00 Alden Klovdahl (ANU, Sociology). "Visual Representations and Explanations of Marital Dissolution."

- 3:15 Peter Mariolis (Spelman College, Sociology). "Degree, Density, Coherence, and Prominence in Hypergraphs: A Computer Program."
- 3:30 Ove Frank (Lund, Statistics), Barry Wellman (Toronto, Sociology), and Craig Wilson (Toronto, Sociology). "The Impact of Individuals' Attributes and the Likelihood of Dyadic Ties and Network Structures: A Stochastic Model Applied to East Yorkers' Intimate Networks."
- 3:45 David Krackhardt (Cornell, Graduate School of Management). "Partialling Networks: An Application in Organizational Behavior."

42 SATURDAY AFTERNOON: SESSION A-1, 4:00 - 5:00

METHODS IN NETWORK ANALYSIS

Chair: Karl Reitz (Chapman College, Mathematics)

- 5:30 Muriel Hammer (New York State Psychiatric Institute). "Implications of Behavioral and Cognitive Reciprocity in Social Network Data."
- 5:50 Malcolm Dow (Northwestern, Anthropology). "A Bi-Parametric Approach to Network Autocorrelation: Galton's Problem."
- 6:30 Larry Wu (Stanford, Sociology) and Phillip Bonacich (UCLA, Sociology). "Understanding Homomorphisms in Blockmodeling: An Evaluation of the Pattison Approach."

5:00 BREAK

43 SATURDAY AFTERNOON: SESSION A-2, 5:30 - 7:00

APPLICATIONS IN BUSINESS AND MANAGEMENT

Chair: Peter Reingen (Arizona State, Marketing)

- 5:30 Barry Mitnick (Pittsburgh, Graduate School of Business). "Strategic Risk Reduction and the Creation of Agents in Regulation."
- 5:50 Gordon Walker (MIT, School of Management). "Network Position and Cognition in a Computer Software Firm."
- 6:10 Peter Reingen, Jacquelyn Johnson (Arizona State, Marketing), Brian Foster (Arizona State, Anthropology), and Stephen Seidman (George Mason, Mathematics). "Brand Congruence in Interpersonal Relations: A Social Network Analysis."
- 6:30 David Bunting (Eastern Washington, Economics). "Network Relations in Economic Performance."

44 SATURDAY AFTERNOON: SESSION B-1, 4:00 - 5:00

ISSUES AND APPLICATIONS IN NETWORK ANALYSIS

Chair: Ronald Rice (USC, Annenberg School)

- 4:00 Jeffrey Johnson and Marcus Hepburn (East Carolina, Institute for Coastal and Marine Resources). "Social Networks and the Adoption of Technology: A Comparison of Two Innovations."
- 4:20 Rodolfo G. Serrano (California State, Bakersfield, Education). "Chicano Students in High Schools: A Network Analysis."
- 4:40 Bonnie Erickson (Toronto, Sociology). "Age and Gender Stereotyping: Personal Attributes and Subculture Involvement."

5:00 BREAK

45 SATURDAY AFTERNOON: SESSION B-2, 5:30 - 7:00

COMMUNICATION NETWORKS

Organizer: Rolf Wigand (Arizona State, Public Affairs)

- 5:30 Vincent Waldron and James Davies (U Arizona, Speech Communication). "The Structural Properties of a Trial as Delimiters and Predictors of Trial Outcome."
- 5:50 David Johnson (Arizona State, Communication). "Multi-variate Communication Networks."
- 6:10 Billy Catchings (U Arizona, Speech Communication). "A Structural-Functional Analysis of Voire-dire."
- 6:30 Gaut Ragsdale (Louisiana State, Speech Communication). "A Communication Network Model for Plea-Bargaining."

46 SATURDAY AFTERNOON: SESSION C-1, 4:00 - 5:00 (cont. from 9:00)

NETWORKS THROUGH TIME

Organizer: Alvin Wolfe (South Florida, Anthropology)

- 4:00 A. Kimball Romney and Keiko Nakao (UC-Irvine, Social Science). "Longitudinal Analysis of Sixteen Weeks of Newcomb's Fraternity Data."
- 4:20 Elizabeth A. Bankoff (Chicago, Committee on Human Development). "The Long-term Consequences of Social Support for Newly Widowed Women."

4:40 Rumi Kato Price (UC-Berkeley, Sociology). "Constraints of Social Networks: A Longitudinal Analysis of Heroin Abstinence."

47 SATURDAY AFTERNOON: SESSION C-2, 5:30 - 7:00

SOCIAL NETWORK ANALYSIS IN GEOGRAPHY

Organizer: Forrest Pitts (Hawaii, Geography)

- 5:30 Gerald Walker (York). "Local Community and Support Forms: Farmers Versus Rural Non-Farm Residents."
- 5:50 Thomas R. Leinbach (Kentucky). "Improved Road Networks and Information Flow in Rural Indonesia: A Social Network Exploration."
- 6:10 Keith J. Tinkler (Brock). "Interpreting the Theoretical Text: Taking Care in Network Analysis."
- 6:30 Forrest R. Pitts (Hawaii). "Random Thoughts on Random Graphs."

50 SUNDAY MORNING: SESSION A, 9:00 - 11:30

NETWORK ANALYSIS IN HISTORICAL RESEARCH

Organizer: Andrejs Plakans (Iowa State, History)

- 9:00 Elaine Clark (Michigan, History). "Kin Networks and Orphaned Children: A Medieval Perspective."
- 9:20 Jill Neitzel (School of American Research, Anthropology). "The Changing Structure of the Spanish Mission System in the Greater Southwest and California."
- 9:40 J. Dennis Willigan (Utah, Sociology). "Dissolution of Vertical Kinship Networks: Historical and Structural Considerations."
- 10:00 BREAK
- 10:30 Robert B. Wheaton (Journal of Family History, History). "Network Analysis of Marriage Contracts: Bordeaux in the Mid-seventeenth Century."
- 10:50 Andrejs Plakans (Iowa State, History). "Affinal Kinship Networks in a Mid-nineteenth Century Eastern European Peasant Community."
- 11:10 Charles Wetherell (UC-Riverside, History). "Printers' Networks and the Diffusion of Information in the Colonial American Press."

51 SUNDAY MORNING: SESSION B-1, 9:00 10:20

STATISTICS AND NETWORKS

Organizer: Stanley Wasserman (Illinois, Statistics/Psychology)

- 9:00 Peter Marsden (North Carolina at Chapel Hill, Sociology). "Latent Structure Models for Relationally Defined Social Classes."
- 9:20 Karl Reitz (Chapman College, Mathematics). "Network Autocorrelation in the Analysis of Categorical Data."
- 9:40 Joseph Galaskiewicz (Minnesota, Sociology) and Stanley Wasserman (Illinois, Psychology/Statistics). "Constraining Large Social Systems."
- 10:00 BREAK

52 SUNDAY MORNING: SESSION B-2, 10:40 - 12:00

EXCHANGE THEORY AND SOCIAL NETWORKS

Organizer: Karen Cook (Washington, Sociology)

- 10:40 Karen Cook and Mary Gillmore (Washington, Sociology). "Commitment Formation in Social Exchange Networks."
- 11:00 John Bolland (Kansas, Political Science). "Social Exchange in Community Agenda-Setting Networks."
- 11:20 Brian Foster (Arizona State, Anthropology). "Thoughts on a Network Formulation of Sahlins' Exchange Theory."
- 11:40 Linda Molm (Emory, Sociology). "Linking Structural Power and Power Use: A Lag Sequential Analysis."
- 12:00 ORGANIZATIONAL MEETING FOR 1985 AND BEYOND