NETWORK ANALYSIS AND SOCIAL STRUCTURE:
The Network Construction of Individuals and Groups

Political Science 572/ Sociology 585
Autumn 1999

Prof. John F. Padgett
Pick 512

Asterisk items are required reading: on reserve at Regenstein; also an optional xerox packet, containing most items, is available for reproduction, through me.

Week 1. Introduction: Interactionism versus Structuralism (Sept.27)

(a) Theoretical Themes

J. Boissevain, Friends of Friends: Networks, Manipulators and Coalitions, chap. 1.

(b) Case Example: Informal Organization

Part 1. INTERACTIONISM

Week 2. **Balance Theory and Clique Formation** (October 4)

(a) Cliques and Hierarchy: Balance Theory

* Howard Taylor, Balance in Small Groups, chap. 2.
James A. Davis, "Clustering and Structural Balance in Graphs," in Leinhardt, Social Networks.
* Paul W. Holland and Samuel Leinhardt, "Transitivity in Structural Models of Small Groups," in Leinhardt, Social Networks.

(b)Cliques: Interpersonal and Economic Data

James Lincoln, Michael Gerlach and Christiana Ahmadjian, "Keiretsu Networks and Corporate Performance in Japan,"
(c) Hierarchy: Animal and Human Data

Frans de Waal, Chimpanzee Politics.

Week 3A. Strength of Weak Ties (October 11)

(a) Strength of Weak Ties

Everett Rogers, "Network Analysis and the Diffusion of Innovations," in P. Holland and S. Leinhardt (eds.),
Perspectives on Social Network Research.

(b) Careers

Mark Granovetter, *Getting a Job: A Study of Contacts and Careers*.
Everett Rogers and Judith Larsen, *Silicon Valley Fever*.

(c) Voluntary Organizations


(d) Markets and Contracts

Robert G. Eccles and Dwight Crane, *Doing Deals: Investment Banks at Work*.

Week 3B. Power and Centrality (Oct. 11, cont.)

(a) Centrality


(b) Resource Dependency Theory

Jeffrey Pfeffer and Gerald Salancik, _External Control of Organizations_.

(c) Power and Brokerage in Community Elites

Edward Laumann and Franz Pappi, _Networks of Collective Action_.
Part 2. STRUCTURALISM

Week 4. Structural Equivalence (October 18)

(a) Structural Equivalence Classes out of Relations


(c) Blockmodelling Examples: International Trade


Week 5A. Duality (October 25)

(a) The Duality of Persons and Groups

Georg Simmel, Conflict and the Web of Group Affiliations.
Peter Blau, Heterogeneity and Inequality.
Peter Blau and Joseph Schwartz, Cross-Cutting Social Circles

Week 5B. Mobility and Markets (Oct. 25, cont.)

(a) Structural Mobility and Vacancy Chains

(b) Structural Autonomy in Markets

Ronald Burt, *Toward a Structural Theory of Action.*
Ronald Burt, *Corporate Profits and Cooptation.*
Ronald Burt, *Structural Holes.*

Part 3: SPECIAL TOPICS

Week 6. *Statistical Supplement* (November 1)

(a) Data Collection Issues

* Peter V. Marsden, *Network Data and Measurement.* Annual Review of Sociology


(b) Clustering

  W.H. Panning, *Fitting Blockmodels to Data.* Social Networks
"Cluster Analysis," chap. 3 in SPSS/PC+ Advanced Statistics.

(c) Regression

Lutz Erbring and Alice Young, "Individuals and Social Structure: Contextual Effects as Endogenous Feedback." *Sociological Methods and Research* (1979) 7:396-430.

Week 7. Robust Action and Identity (November 8)

Harrison C. White, *Identity and Control*.
Roger V. Gould, *Insurgent Identities*.
Week 8. Modelling of Network Dynamics (November 15)

(a) Connectionism and Neural Nets


(b) Emergent Organization: the "Santa Fe Approach"

Manfred Eigen and Peter Schuster, The Hypercycle (Berlin: Springer Verlag, 1979).

Part 4: APPLICATIONS--one of following topics will be chosen

Week 9 (November 22)

9A. Social Movements and Political Parties
(a) Social Movements

Roger V. Gould, Insurgent Identities.

(b) Political Parties and Factions

* Frederik Barth, Political Leadership among Swat Pathans, chaps. 7, 9.
Joyce Pettigrew, Robber Noblemen: A Study of the Political System of the Sikh Jats.
Carl Lande, Leaders, Factions and Parties: The Structure of Philippine Politics.
Lily Ross Taylor, Party Politics in the Age of Caesar.
Judith Chubb, Patronage, Power and Poverty in Southern Italy
* Martin Shefter, "The Emergence of the Political Machine: An Alternate View," in Willis D. Hawley et al. (eds.), Theoretical Perspectives on Urban Politics.

9B. Trust and Generalized Exchange
(a) Anthropological Background

Bronislaw Malinowski, *The Argonauts of the Pacific.*
Marcel Mauss, *The Gift.*
Claude Levi-Strauss, *The Elementary Forms of Kinship.*
Rodney Needham, *Structure and Sentiment.*
* Peter Ekeh, *Social Exchange Theory: The Two Traditions,* chap. 3.
Paula Rubel and A. Rosman, *Your Own Pigs You May Not Eat.*
Maurice Godlier and Marilyn Strathern (eds.), *Big Men and Great Men: Personifications of Power in Melanesia.*

(b) Reciprocity and Giving


(c) Relations in Business

9C. Urbanism and Personal Ties

(a) Urban Families and Friends

Claude S. Fischer et al., *Networks and Places: Social Relations in the Urban Setting.*
* Claude S. Fischer, *To Dwell Among Friends: Personal Networks in Town and City,* chaps. 1, 12, 13, 15, 16.

more Huckfeldt:
Huckfeldt and Sprague, "Choice, Social Structure and Political Information: The Informational Coercion of Minorities,"

(b) Segregation

* Thomas Schelling, Micromotives and Macrobehavior, chap. 4.
Richard P. Taub, D. Garth Taylor, and Jan D. Dunham, Paths of Neighborhood Change, chap. 7.
David Harvey, The Urban Experience.

9D. Kinship and Clans

(a) Clans in Tribes

Meyer Fortes, The Dynamics of Clanship among the Tallensi.
* Robin Fox, Kinship and Marriage, chaps. 1, 3, 4, 6-8.
Rodney Needham, Structure and Sentiment.
Andrew Strathern, The Rope of Moka.
(b) The Rise of Clans in Early Modern Europe

David Herlihy, "Family Solidarity in Medieval Italian History," in David Herlihy et al., (eds.), Economy, Society and Government in Medieval Italy. Daniel Waley, The Italian City-republics, chap. 5.*


9E. New Institutionalism and the State

(a) State Formation and the Structure of the State

* Theda Skocpol, States and Social Revolutions, chaps. 1, 2. Stephen Skowronek, Building a New American State.


Perry Anderson, Lineages of the Absolutist State.


(b) Class Formation and the Structure of the State


Week 10. Presentation of Student Research (November 29)