

NOTES



CHAPTER 1

1. See David Harvey, *Explanations in Geography* (London: Edward Arnold, 1969); F. E. Emery, ed., *Systems Thinking* (Baltimore: Penguin Books, 1969); Harry W. Richardson, *Regional Economics: Location Theory, Urban Structure, and Regional Change* (New York: Praeger, 1969).
2. See Alfred Schutz, *Collected Papers, 1: The Problem of Social Reality*, ed. Maurice Natanson (The Hague: Martinus Nijhoff, 1962), and *Collected Papers, 2: Studies in Social Theory* (The Hague: Martinus Nijhoff, 1964).
3. Maurice Merleau-Ponty, *Phénoménologie de la Perception* (Paris: Éditions Gallimard, 1945).
4. See Paul Fraisse, *The Psychology of Time* (New York: Harper & Row, 1963).
5. A number of recent studies of the time-orientation of the American poor, compared to that of more privileged people, seem to substantiate this conclusion.
6. Fraisse: 174; Cornelius A. van Peursen, *Phenomenology and Reality* (Pittsburgh: Duquesne University Press, 1972).
7. Schutz: 1.
8. Aron Gurwitsch, *The Field of Consciousness* (Pittsburgh: Duquesne University Press, 1964): 3.
9. Adrian L. Van Kaam, *Existential Foundations of Psychology* (Pittsburgh: Duquesne University Press, 1966): 91, 29, 12-13.
10. Van Kaam: 15.
11. See Arthur M. Johnson and Barry E. Supple, *Boston Capitalists and Western Railroads* (Cambridge: Harvard University Press, 1967).
12. The railroad systems, of course, ended up serving New York more than Boston.
13. Corinne Lathrop Gilb, "Urban History and Comparative National History," paper for annual conference of the American Historical Association, December, 1970. Quote From Joseph Levenson, "The Province, The Nation, and the World: The Problem of Chinese Identity" in Albert Feuerwerker, Rhoads Murphey, Mary C. Wright, eds., *Approaches to Modern Chinese History* (Berkeley and Los Angeles: University of California Press, 1967): 277-278.

CHAPTER 2

1. Financed by a grant to the American Historical Association from the Carnegie Corporation of New York City, the work of this committee grew out of a presidential address by Dexter Perkins to the American Historical Association in 1956. The committee included Dexter Perkins as chairman, Jacques Barzun, Fred Harvey Harrington, Edward C. Kirkland, Leonard Krieger, and Boyd C. Shafer. John Snell was director of this study. A volume, *The Education of Historians in America*, was published by McGraw-Hill in the fall of 1961.
2. Social Science Research Council, Bulletin 54, *Theory and Practice in Historical Study* (New York: 1946), and Bulletin 64, *The Social Sciences in Historical Study* (New York: 1954).
3. See Paul F. Lazarsfeld and Wagner Thielens, Jr., *The Academic Mind: Social Scientists in a Time of Crisis* (Glencoe: Free Press, 1958); Logan Wilson, *The Academic Man: A Study in the Sociology of a Profession* (New York: Oxford University Press, 1942); Theodore Caplow and Reece McGee, *The Academic Marketplace* (New York: Basic Books, 1958).

4. They used a random sample of 681 historians. Under the auspices of the Ford Humanities Project at Princeton University, Robert Knapp of Wesleyan University is currently making a full-scale study of the origins and social background of historians, philosophers, and literary scholars. There have been other general studies of the social origins of professors. See B.W. Kunkel, "A Survey of College Teachers," *Bulletin of the American Association of University Professors*, 24 (March, 1938): 262.

5. Some writing has been done, of course, about historians who fall into certain ethnic or religious categories. See Earl E. Thorpe, *Negro Historians in the United States* (Baton Rouge: Southern University Press, 1958). An empirical investigation of historians' religious beliefs was made by James H. Leuba in 1914 and again in 1933. The beliefs of physicists, biologists, sociologists, and psychologists were also studied, and the results were reported in James H. Leuba, *The Belief in God and Immortality: A Psychological, Anthropological and Statistical Study* (Boston: Sherman, French, and Co., 1916), and *The Reformation of the Churches* (Boston: Beacon Press, 1950).

6. Frederick J. Teggart, *Theory and Processes of History* (Berkeley: University of California Press, 1941): 28.

7. In Fritz Stern, ed., *The Varieties of History* (New York: Meridian Books, 1956): 351. Based on an article first published in the *American Historical Review*, 53 (July, 1948): 748.

8. Howard K. Beale, "What Historians Have Said About the Causes of the Civil War," *Social Sciences in Historical Study*, Social Science Research Council Bulletin, 54 (1946): 87.

9. There have been studies of the correlation between age and productivity in scholars. See B. N. Meltzer, "The Productivity of Social Scientists," *American Journal of Sociology*, 55 (July, 1949): 25.

10. See, for example, Anne Roe, "Analysis of Group Rorschachs of Biologists," *Journal of Projective Techniques*, 13 (1) (1949): 25; "A Study of Imagery in Research Scientists," *Journal of Personality*, 19 (June, 1951): 459; "Analysis of Group Rorschachs of Psychologists and Anthropologists," *Journal of Projective Techniques*, 16 (June, 1952): 212; "Group Rorschachs of University Faculties," *Journal of Consulting Psychology*, 16 (February, 1952): 18; *The Making of a Scientist* (New York: Dodd, Mead & Co., 1952); *The Psychology of Occupations* (New York: John Wiley & Sons, 1956).

11. Florian Znaniecki, *The Social Role of the Man of Knowledge* (New York: Columbia University Press, 1940).

12. Insights into the historian's situation might be gained from such general works as S. M. Lipset, "American Intellectuals: Their Politics and Status," *Daedalus*, 88 (Summer, 1959): 460; Theodore Caplow, *The Sociology of Work* (Minneapolis: University of Minnesota Press, 1954); Everett C. Hughes, *Men and Their Work* (Glencoe: Free Press, 1958); Arthur Kornhauser, *Problems of Power in American Democracy* (Detroit: Wayne State University Press, 1957); C. Wright Mills, *The Sociological Imagination* (New York: Oxford University Press, 1959).

13. See *Theory and Practice in Historical Study*: 25.

CHAPTER 4

1. See Edmund S. Morgan, *The Puritan Dilemma: The Story of John Winthrop* (Boston: Little, Brown and Company, 1953).

2. Sumner Shilton Powell, *Puritan Village: The Formation of a New England Town* (Middletown: Wesleyan University Press, 1963): 108-9; Richard L. Bushman, *From Puritan to Yankee* (New York: W. W. Norton & Company, 1967); George A. Billias, ed., *Law and Authority in Colonial America* (Barre: Barre Publishers, 1965); George Lee Haskings, *Law and Authority in Early Massachusetts* (New York: Macmillan, 1960); James Morton Smith, ed., *Seventeenth-Century America* (Chapel Hill: University of North Carolina Press, 1959); George F. Dow, *Every Day Life in the Massachusetts Bay Colony* (Boston: Society for the Preservation of New England Antiquities, 1935); Richard B. Morris, *Studies in the History of American Law with Special Reference to the Seventeenth and Eighteenth Centuries* (New York: Octagon Books, 1963); Morton J. Horowitz, *The Transformation of American Law, 1780-1860* (Cambridge: Harvard University Press, 1977): 44.

3. See Eustace M.W. Tillyard, *The Elizabethan World Picture* (London: Chatto and Windus, 1943).
4. Horowitz: 36, 99; *Journal of Economic History* (supp.) (December, 1943).
5. Horowitz: 99.
6. Horowitz: 209.
7. Horowitz: 26.
8. See Corinne Lathrop Gilb, oral history interview with Mathew O. Tobriner, Institute of Industrial Relations Library, University of California, Berkeley, dated 1960. Charles A. Reich, "The New Property," *Yale Law Journal*, 73 (1964): 733; Francis S. Philbrick, "Changing Conceptions of Property in Law," *University of Pennsylvania Law Review*, 75 (1938): 691.
9. Anne Bradstreet, *Meditations Divine and Moral*, #62: 286; Jeannie Hensley, ed., *The Works of Anne Bradstreet* (Cambridge: Belknap Press/Harvard University Press, 1967).
10. See also Ann Stanford, *Anne Bradstreet: The Worldly Puritan* (New York: Burt Franklin, 1974); Elizabeth Wade White, *Anne Bradstreet, "The Tenth Muse"* (New York: Oxford University Press, 1971).
11. Robert N. Bellah, *The Broken Covenant: American Civil Religion in Time of Trial* (New York: Seabury Press, 1975): 10.
12. Sacvan Bercovitch, *The Puritan Origins of the American Self* (New Haven: Yale University Press, 1975): 113.
13. Bellah: 45.
14. Bercovitch: 23, 108.
15. Bercovitch: 135.
16. Bercovitch: 152.
17. Bercovitch: 178.
18. John O. Lyons, *The Invention of the Self: The Hinge of Consciousness in the Eighteenth Century* (Carbondale: Southern Illinois University Press, 1973): 3.
19. Lyons: 4.
20. Walt Whitman, "Song of Myself," in *Leaves of Grass* (reprint of 1891-2 version) (Mount Vernon: Peter Pauper Press, 1944): 32.
21. Whitman, "Song of Joys," in *Leaves of Grass*: 142.
22. Whitman, "There Was a Child Went Forth," in *Leaves of Grass*: 271.
23. E. Fred Carlisle, *The Uncertain Self: Whitman's Drama of Identity* (East Lansing: Michigan State University Press, 1973): 7-8.
24. Whitman, "Song of Myself," in *Leaves of Grass*: 66.
25. Whitman, "Song of Myself," in *Leaves of Grass*: 43.
26. Whitman, "One's-Self I Sing," in *Leaves of Grass*: 11.
27. Carlisle: 58.
28. Whitman, "Crossing Brooklyn Ferry," in *Leaves of Grass*: 125.
29. Whitman, "Song of Myself," in *Leaves of Grass*: 31.
30. Whitman, "Song of Myself," in *Leaves of Grass*: 69.
31. Whitman, "Song of Myself," in *Leaves of Grass*: 73.
32. Whitman, "Song of Myself," in *Leaves of Grass*: 74.
33. William James, *The Will to Believe* (New York: Longmans, Green & Co., 1897), *Pragmatism* (New York: Longmans, Green & Co., 1907), and *Principles of Psychology* (London: Macmillan, 1890); George Herbert Mead, *The Philosophy of the Act* (Chicago: University of Chicago Press, 1968), and *Mind, Self and Society* (Chicago: University of Chicago Press, 1934).

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37. Wallace Stevens, “Life is Motion,” in *The Collected Poems of Wallace Stevens* (New York: Alfred A. Knopf, 1968): 83. Reprinted by permission.
38. Stevens, “Sunday Morning,” in *Collected Poems*: 70.
39. Stevens, “Extracts from Addresses to the Academy of Fine Ideas,” in *Collected Poems*: 254.
40. Stevens, “Final Soliloquy of the Interior Paramour,” in *Collected Poems*: 524.
41. Stevens, “The Man with the Blue Guitar,” in *Collected Poems*: 175.
42. Stevens, “The Auroras of Autumn,” in *Collected Poems*: 411.
43. Frank Doggett, *Stevens’ Poetry of Thought* (Baltimore: Johns Hopkins University Press, 1966): 135–36.
44. Wallace Stevens, “The Sail of Ulysses,” in *Opus Posthumous* (New York: Alfred A. Knopf, 1968): 104.
45. Stevens, “Credence of Summer,” in *Collected Poems*: 376.
46. Stevens, “Tea at the Palaz of Hoon,” in *Collected Poems*: 405.
47. Stevens, “Notes Toward a Supreme Fiction,” in *Collected Poems*: 405.
48. Stevens, “The Man with the Blue Guitar,” in *Collected Poems*: 168.
49. Stevens, “A Dish of Peaches in Russia,” in *Collected Poems*: 224.
50. Stevens, “The Latest Freed Man,” in *Collected Poems*: 205.
51. Doggett: 121.
52. Stevens, “Examination of the Hero in a Time of War,” in *Collected Poems*: 280.
53. Stevens, “Final Soliloquy of the Interior Paramour,” in *Collected Poems*: 524.
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CHAPTER 5

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3. George Herbert, “Man,” in *The Norton Anthology of English Poetry* (New York: W. W. Norton & Company, 1970): 282.
4. Henry More, “Notes upon Psychathanasia,” in *Philosophical Poems* (1647): stanzas 5–6.
5. Cited to Cowley, “The Ecstasy.” Editors unable to verify.
6. More, “Cupid’s Conflict,” from “Antipsychopannychia” in *Philosophical Poems*.
7. Alexis de Tocqueville, “Why the Americans are so Restless in the Midst of their Prosperity,” chapter 13 in *Democracy in America*, 2, ed. Phillips Bradley (New York: Alfred A. Knopf, 1945): 136–137.
8. de Tocqueville: chapter 2, “Of Individualism in Democracies,” in *Democracy in America*: 99.

CHAPTER 6

1. See Kurt Baier and Nicholas Rescher, eds., "Values and the Future," *The Impact of Technological Change on American Values* (New York: Free Press, 1969).
2. Alvin Toffler, "The Art of Measuring the Arts," in Bertram M. Gross, ed., *Social Intelligence for America's Future* (Boston: Allyn & Bacon, 1969). As Toffler has said, art might be a social lubricant, a mystical experience, an integrative mechanism, a policy review, a sensitizer, a creativity generator, a social indicator, or a needed novelty. Beauty may, or may not, be relevant to these functions. British philosopher R. B. Collingwood has said that aesthetic theory is the theory not of beauty but of art. Horace Kallen, in *Art and Freedom* (New York: Duell, Sloan, and Pearce, 1942), said that collective uses of art include: to serve as a vehicle of a common emotion; to be the symbol of a common aspiration or the expression of a common purpose; to reveal in an image a general vision or common ideal; to be a medium and agency of adjustment; to be a road of escape; to be a chalice of cleansing and purgation; to be a sublimation of imprisoned powers and dispositions; to provide a vicarious gratification of suppressed desires; to enable an imaginative satisfaction of real, unrepressed hungers; to enlarge and intensify inner division and outer struggle. Art, used thus, may or may not be beautiful. For further information on social indicators, see Raymond A. Bauer, *Social Indicators* (Cambridge: MIT Press, 1966).
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7. See Hugh Kenner, ed., *T. S. Eliot: A Collection of Critical Essays* (Englewood Cliffs: Prentice-Hall, 1962); or Allen Tate, *On the Limits of Poetry* (New York: Swallow Press, 1948); or the writings of Ezra Pound or Wallace Stevens.
8. See Tate, *ibid.*, and John Crowe Ransom, *The New Criticism* (Norfolk: New Directions, 1941).
9. Suzanne K. Langer, *Feeling and Form* (New York: Charles Scribner's Sons, 1953); *Problems of Art* (New York: Charles Scribner's Sons, 1957).
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17. Wylie Sypher, *The Loss of Self in Modern Literature and Art* (New York: Vintage, 1964); Alain Robbe-Grillet, *Snapshots and Towards a New Novel*, tr. Barbara Wright (London: Calder and Boyars, 1965).
18. See Corinne Lathrop Gilb, "Time and Change in Twentieth Century Thought," *Journal of World History*, 9 (4) (1966): 867-883.
19. John Dewey, *Logic: The Theory of Inquiry* (New York: Henry Holt and Company, 1938), *Experience and Nature* (Chicago: Open Court, 1925), and *Art as Experience* (New York: Perigee, 1934).

20. See Kallen.

21. See note 32.

22. S. Eliot, *Selected Essays* (London: Faber & Faber, 1953).

23. Jeremy Bentham, *Works*, 2 (London: Weidenfeld & Nicolson, 1966): 253.

24. Schilling: 6: "A scientific theory of the arts must deal with the relationship that develops between works of art as they exist in their psychophysiological form, i.e., between the forms of excitors and the forms of reaction. As long as an art-form manifests itself through a physical medium, and is perceived through an organ of sensation, memory and associative orientation, it is a measurable quantity. Measurable quantities are subject to the laws of mathematics. Thus, analysis of esthetic forms requires mathematical techniques, and the synthesis of forms (the realization of forms in an art medium) requires the technique of engineering." (There are many who would not agree with him.)

See also C. W. Valentine, *The Experimental Psychology of Beauty* (introductory) (New York: McGraw-Hill/World University Library, 1966); M. D. Vernon, *A Further Study of Visual Perception* (Cambridge: Cambridge University Press, 1954); Thomas Munro, *Toward Science in Aesthetics* (New York: Liberal Arts Press, 1956); Guy T. Buswell, *How People Look at Pictures* (Chicago: University of Chicago Press, 1935); Birren Faber, *Color, Form and Space* (New York: Reinhold, 1961); Marius von Senden, *Space and Sight*, tr. Peter Heath (London: Methuen, 1960); F. H. Allport, *Theories of Perception and the Concept of Structure* (New York: John Wiley & Sons, 1955); Jerome S. Bruner and Glenn V. Ramsey, eds., *Perception—An Approach to Personality* (New York: Ronald Press, 1951); Robert L. Fantz, "The Origin of Form Perception," *Scientific American*, 204 (May, 1961): 66-72; Eckhard H. Hess, "Shadows and Depth Perception," *Scientific American*, 204 (March, 1961): 138-148; Rudolf Arnheim, *Art and Visual Perception* (Berkeley: University of California Press, 1957); James J. Gibson, *The Perception of the Visual World* (Boston: Houghton Mifflin, 1950); Georg Von Bekesy, *Experiments in Hearing*, tr. E. G. Wever (New York: McGraw-Hill, 1960); D. N. Morgan, "Psychology and Art Today: A Summary and Criticism," *Journal of Aesthetics and Art Criticism*, 9 (December, 1950). Also, Peckham, op. cit.; George D. Birkhoff, *Aesthetic Measure* (Cambridge: Harvard University Press, 1933); Abraham Moles, *Information Theory and Esthetic Perception*, tr. Joel E. Cohen (Urbana: University of Illinois Press, 1966). This list is far from being exhaustive.

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26. Schilling: 6.

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31. Lewis Mumford, *The City in History* (New York: Harcourt, Brace & World, 1961). See also the sources listed in the endnotes for Corinne Lathrop Gilb, "City Form, Governmental Structure, and the Space of Power" (chapter 9 of this book).
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35. Lawrence Lessing, "Systems Engineering Invades the City," *Fortune*, 77 (January, 1968): 220-221.
36. See Camus.
37. Andre Malraux, *The Voices of Silence* (Princeton: Princeton University Press, 1951).

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CHAPTER 7

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5. Cobb: 77.
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CHAPTER 9

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11. Bryce: 244, 313, 155, 298.

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CHAPTER 10

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3. I am grateful to Tom Andrews, the Detroit Planning Department's specialist in environmental impact analysis, for these and other comments.

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PART 4

1. See Talcott Parsons, *Essays in Sociological Theory, Pure and Applied* (Glencoe: Free Press, 1949), and *The Structure of Social Action* (Glencoe: Free Press, 1949) and other similar publications.
2. F. E. Emery, ed., *Systems Thinking* (Baltimore: Penguin Books, 1969): 22. See chapter 1 by Andras Angyal, and chapter 2 by J. K. Feibleman and J. W. Friend.
3. David Harvey, *Explanations in Geography* (London: Edward Arnold, 1969): 467. See his chapter 23 on systems. See Harry W. Richardson's excellent book, *Regional Economics: Location Theory, Urban Structure, and Regional Change* (New York: Praeger, 1969): 53. Richardson praises Louis Lefebvre as one of the few economists who have not assumed space as a given, citing Lefebvre's *Allocation in Space: Production, Transport and Industrial Location* (Amsterdam: North-Holland Publishing Co., 1958). Cf. Claude Ponsard, *Economie et Espace: Essai d'Integration du Facteur Spatial dans l'Analyse l'Economique* (Paris: Sedes, 1955). Even rarer are regional economic theories that incorporate temporal variables in association with variables in spatial structure as part of their basic model.

CHAPTER 13

1. Mark Jefferson, "The Law of the Primate City," *Geographical Review*, 29 (1939): 226-232. See Arnold S. Lensky, "Some Generalizations Concerning Primate Cities," *Annals of the Association of American Geographers*, 55 (September, 1965): 506-513.
2. George K. Zipf, *Human Behavior and the Principle of Least Effort* (Cambridge: Addison-Wesley, 1949); Brian J. L. Berry, "Cities as Systems Within Systems of Cities," in J. R. P. Friedmann and William Alonso, eds., *Regional Development and Planning* (Cambridge: MIT Press, 1964): 116-137; Richard J. Chorley and Peter Haggett, eds., *Socio-Economic Models in Geography* (London: University Paperbacks, 1968): 326-329; Brian J. L. Berry and Frank E. Horton, *Geographic Perspectives on Urban Systems* (New York: Prentice-Hall, 1970): 73.
3. See Rutledge Vining, "A Description of Certain Spatial Aspects of an Economic System," *Economic Development and Cultural Change*, 3 (2) (January, 1955): 147-195 and Addendum, 3 (4) (July, 1955): 386-387. Responding was Edgar M. Hoover, "The Concept of a System of Cities," *Economic Development and Cultural Change*, 3 (January, 1955): 196-198, questioning whether the rank-size rule could be expected to hold in any type of area. B. J. L. Berry, "City Size Distribution and Economic Development," *ibid.*, 52 (1961): 573-588, states p. 587 there is no correlation between log normality and either the degree of economic development or the degree of urbanization. Distribution is the result of the number and complexity of forces affecting urban structure. See Cesar A. Vapnarsky, "On Rank-Size Distributions of Cities: An Ecological Approach," *ibid.*, 17(4) (July, 1969): 584. Also questioning the validity of the rank-size rule was C. T. Stewart, "The Size and

Spacing of Cities," *Geographical Review*, 48 (1958): 222-245. B. J. L. Berry and W. L. Garrison, "Alternate Explanations of Urban Rank Size Relationships," *Annals of the Association of American Geographers*, 48 (March, 1958): 83-91.

4. Chauncy D. Harris, "City and Region in the Soviet Union" in R. P. Beckinsale and J. M. Houston, eds., *Urbanization and its Problems* (New York: Barnes & Noble, 1968); Berry and Horton: 73. See Ira M. Lapidus, ed., *Middle Eastern Cities* (Berkeley and Los Angeles: University of California Press, 1969); Mikail N. Tikhomirov, *The Towns of Ancient Rus* (Moscow: Foreign Languages Publishing House, 1959); Steven Runciman, *Byzantine Civilization* (London: Edward Arnold, 1933); Ira M. Lapidus, *Muslim Cities in the Later Middle Ages* (Cambridge: Harvard University Press, 1967); Karl Polanyi, Conrad M. Aresberg and Harry W. Pearson, *Trade and Market in the Early Empire* (New York: Free Press, 1957): 51-52; Jean Comhaire and Werner J. Cahnman, *How Cities Grew* (Madison: Florham Park Press, 1959); W. Gordon East, *An Historical Geography of Europe*, 5th ed. (London: Methuen, 1966).

5. Lynn Whyte, Jr., ed., *The Transformation of the Roman World* (Berkeley and Los Angeles: University of California Press, 1966). The expansion, shrinkage and then recent growth of the city of Rome between 300 B.C. and the present illustrates the effect of such changes on a single city. Vienna, between 1600 and now, also illustrates well the effects of whole system change on the city's form and function.

6. Personal field trips, 1968, 1970. See Peter Hall, *World Cities* (London: World University Library, 1966); R. E. Dickinson, "The Geography of Commuting in Western Germany," *Annals of the Association of American Geographers*, 49 (December, 1959): 443-456; E. C. Vollans, "Urban Development in Belgium Since 1830," in Beckinsale and Houston.

7. R. E. Dickinson, *City and Region* (London: Routledge & Kegan Paul: 1964): 51, 257; Walter Christaller, *Die zentralen Orte in Süddeutschland* (Jena: Gustav Fischer, 1933; English ed. 1966), "Raumtheorie und Raumordnung," *Archiv für Wirtschaftsplanung*, 1 (1941), and "Die Hierarchie der Städte," *Proceedings*, Lund Symposium, 19th International Geographic Congress, 1960.

8. Dickinson: 89. See B. J. L. Berry and W. L. Garrison, "Recent Developments in Central Place Theory," *Papers and Proceedings of the Regional Science Association*, 4 (1958): 107-120. Brian J. L. Berry and Allen Pred, *Central Place Studies: A Bibliography of Theory and Applications, and Supplements through 1964* (Philadelphia: Regional Science Research Institute, 1965). International, with some historical. Brian J. L. Berry and Frank E. Horton, *Geographic Perspectives on Urban Systems* (Englewood Cliffs: Prentice-Hall, 1970); Richard J. Chorley and Peter Haggett, eds., *Integrated Models in Geography* (London: University Paperbacks, 1969); Walter Isard, *Methods of Regional Analysis* (New York: John Wiley & Sons, 1960), an historical application. J. C. Russell, "The Metropolitan City Region of the Middle Ages," *Journal of Regional Science*, 2 (1960): 55-70.

9. Vining.

10. See Otis Duncan et al., *Metropolis and Region* (Baltimore: Johns Hopkins University Press, 1960); Donnell Pappenfort, "The Ecological Field and the Metropolitan Community: Manufacturing and Management," *American Journal of Sociology*, 65 (1959): 380.

11. Berry and Pred claimed that "... little evidence has been provided about the ways in which central place systems change." But Rhoads Murphey claims this is not true, citing as one example G. W. Skinner's study of rural markets in China, *Journal of Asian Studies* (1964-1965).

12. M. V. Clarke, *The Medieval City State* (New York: Barnes & Noble, 1926, 1966): 43; Frederick R. Hiorns, *Town-Building in History* (London: Harrap, 1956); Arthur Bryant, *The Medieval Foundation of England* (Garden City: Doubleday, 1967); N. J. G. Pounds and S. S. Ball, "Core Areas and the Development of the European State System," *Annals of the Association of American Geographers*, 54 (1964): 24-40.

13. I have relied considerably on James Westfall Thompson's three volumes: *Economic and Social History of the Middle Ages*, vols. 1 and 2 (New York: Frederick Ungar, 1923, 1959) and *Economic and Social History of Europe in the Later Middle Ages* (New York: Frederick Ungar, 1931, 1960). Also Harry A. Miskimin, *The Economy of Early Renaissance Europe, 1300-1460* (Englewood Cliffs: Prentice-Hall, 1969); Daniel Waley, *The Italian City-Republics* (New York: McGraw-Hill,

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CHAPTER 17

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of the state Supreme Court judges had been railroad lawyers. Railroad interests influenced governmental (including judicial) appointments at every level. Railroad lawyers were prominent in the U.S. Congress and in state legislatures.

10. However, Sidney Schulman, in *Toward Judicial Reform in Pennsylvania* (Philadelphia: University of Pennsylvania Law School, 1962): 218 points out that in most states, the rank and file of the bar have been indifferent to court reform.

11. This is probably why the National Association of Manufacturers, older members of the bar, and some of the highest-level judges resisted the merger of law and equity in New Jersey in 1947. (State of New Jersey, *New Jersey Constitutional Convention, 1947* (Trenton, 1944-1950)). See also W. J. Bilder, "Restatement of the Case Against a Separate Court of Chancery," *New Jersey Law Journal*, 66 (January 7, February 4 and 25, 1943): 1, 5-6, 45, 49-51, 73, 75.

12. Thompson: 2; Kempin.

13. Delmar Karlen, *Appellate Courts in the United States and England* (New York: New York University Press, 1963): 147: "In England, very few cases can be appealed even once as a matter of right . . . review in the House of Lords is extremely rare; on the other hand, when review is allowed, in England, its scope is broad."

14. Kempin.

15. Karlen. The above remarks are quite tentative. The reasons behind differences between the English and American systems need much more study.

16. Karlen, 146, says: "In England specialization of appellate jurisdiction is the norm." Note the significance of the fact that in the United States, the appellate process is treated as distinct from the trial process, whereas in England this distinction is not so clearcut (Karlen: 157).

17. Worthy of examination for comparative purposes is the jurisdictional patterning of pre-Reformation ecclesiastical courts, and the relation to space-orientation inherent in the nature and substance of appeals to Rome.

18. Friedmann has pointed out that natural law theories were embraced in ancient Greece as a ploy with which to combat existing government. Certainly, they were also used in England in the seventeenth century and in the French Revolution, to that same end.

19. Thompson: 2, 8.

20. The New York 1777 Constitution provided for judges to exercise legislative power through the Council of Revision. Simeon E. Baldwin, *The American Judiciary* (New York: Century, 1920): 30.

21. Schulman: 127. For an interesting description of the way Pennsylvania local courts still perform many non-judicial governmental functions, see Schulman: 59-60, 60-67.

22. Schulman: 129.

23. Sunderland, "Study of Justice of the Peace and Other Minor Courts," *Connecticut Bar Journal*, 21 (1947): 300, 307.

24. See my unpublished Ph.D. dissertation, *Self-Governing Professions and the Public Welfare*, Radcliffe College, 1956.

25. As in Tuolumne and San Bernardino Counties, according to a staff member of California's Judicial Council in telephone conversation (Summer, 1964).

26. Schulman: 31-32.

27. Thompson: 21-22.

28. Crouch and Dinerman: 4.

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30. Report, "The Operation of the Courts," issued by the California Senate, 1959.

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32. Which is why vertical mobility within the court system is limited in some states such as California. A local trial judge seldom can expect promotion to the appellate bench. Men appointed to judgeships at different levels have usually had prior orientation to the level. However, in other states (such as Louisiana) there is high vertical mobility within the court system, a deviant case well worth further exploration. Kenneth N. Vines, "The Selection of Judges in Louisiana," *Tulane Studies in Political Science*, 8 (New Orleans: Tulane University, 1962): 111.

33. It might be said that political parties perform a role the Church once performed in articulating broad community consensus.

34. However, more work need to be done on the significance of the fact that modern centralized controls, both by the courts and the executive, tend to take the partial and relatively detached form of review in terms of fairness or due process only, or control through the budget and statistics rather than by direct mandates concerning policy.

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CHAPTER 24

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CHAPTER 25

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19. Talcott Parsons, Edward A. Shils et al. in Parsons: 26.
20. Ibid.: 179.
21. See, for example, Eli Ginzberg, ed., *The Family and Social Change* (New York: Columbia University Press, 1960). Also Talcott Parsons, "Some Considerations on the Theory of Social Change," *Rural Sociology*, 26 (1961): 219-239. For an excellent study of the processes of social change, see Neil J. Smelser, *Theory of Collective Behavior* (New York: Free Press, 1963). Cultural anthropologists speak of dominant cleavages (Gluckman), radical oppositions (Godfrey and Monica Wilson), and schismogenesis (Bateson) in acculturation. See Alvin Boskoff, "Social Change: Major Problems in the Emergence of Theoretical and Research Foci" in Becker and Boskoff.
22. See Hans Gerth and C. Wright Mills, *Character and Social Structure* (New York: Harcourt, Brace & World, 1953).
23. Amitai Etzioni and Eva Etzioni, *Social Change* (New York: Basic Books, 1964): 75.
24. The following quotation from Langan on Heidegger gives some insight into what is meant by existential Being (or, as Heidegger puts it, Dasein): "... Will is comprehensible only in terms of knowledge, and the engagement of knowledge only in terms of freedom; . . . both will and knowledge, constituting as they do together the single reality of the Dasein's presence among the things that are comprehensible only in terms of the kind of emotional complexus which alone makes up the totality of the human's life in its original unity; . . . there is no science without passion, no passion without intentionality, no freedom without knowledge, no life without poetry, no poetry without truth . . ." From Thomas Langan, *The Meaning of Heidegger* (New York: Columbia University Press, 1959): 14.
25. See Alfred Schutz, "On Multiple Realities," *Collected Papers: The Problem of Social Reality* (The Hague: Martinus Nijhoff, 1962): 207-259; Pitirim A. Sorokin, *Sociocultural Causality, Space, Time* (Durham: Duke University Press, 1943): 154-157.
26. See, for example, Joel E. Greene and Alan H. Roberts, "Time Orientation and Social Class: A Correction," *Journal of Abnormal and Social Psychology*, 62 (January, 1961): 94-98; Anthony Davids, Catherine Kidder, and Melvyn Reich, "Time Orientation in Male and Female Juvenile Delinquents," *ibid.*, 64 (March, 1962): 239-240; Arthur Joseph Dabé, *The General Principles for the Reckoning of Time in Canon Law: An Historical Synopsis and Commentary* (Washington, D.C.: Catholic University Press, 1941).
27. Amos H. Hawley, *Human Ecology: A Theory of Community Structure* (New York: Ronald Press, 1950): 289.
28. Hawley: 301.
29. Jules Henry, "White People's Time, Colored People's Time," *Trans-Action*, 2 (March/April, 1965): 31-34.
30. Schutz: 148.
31. Daniel Bell, "The Disjunction of Culture and Social Structure," *Daedalus*, 94 (Winter 1965): 220-221.
32. I am currently engaged in an extensive study of the relationships between legal institutions, space, time, and community at the Center for the Study of Law and Society, University of California, Berkeley.

33. Science here is understood as meaning “insight into essence” rather than “functional manipulation of possibilities.” Again, the comments of Langan about Heidegger’s views of science are relevant: “Modern science and machine technique are nothing but servants in the domination of the things that are conceived as forces and stocks of energy possibility. If modern physics, then, finds itself incapable of intuiting the intrinsic intelligibility of a representation, this is due to the nature of the decision underlying its ‘scheme for positioning’...; the scientist having originally conceived the individual thing as ‘stock,’ his experimentation will tend toward functional manipulation of possibilities rather than insight into essence.” Rather, science and technique should be viewed as a way of discovering, of making present, and that is what art is too (Langan: 195).

34. Manuel Castells, *The Rise of the Network Society* (Cambridge: Blackwell, 1996): 31.

35. Castells: 51.

CHAPTER 27

1. Howard Gardner, *The Mind’s New Science: A History of the Cognitive Revolution* (New York: Basic Books, 1984): 23.

2. Roy D’Adrade, *The Development of Cognitive Anthropology* (Cambridge: Cambridge University Press, 1995): 12.

3. Nicholas Negroponte, *Being Digital* (New York: Alfred A. Knopf, 1995): 90.

4. Daniel Crevier, *AI: The Tumultuous History of the Search for Artificial Intelligence* (New York: Basic Books, 1993): 114.

5. Mark Gottdiener, *Postmodern Semiotics: Material Culture and the Forms of Postmodern Life* (Oxford: Blackwell, 1995): 9.

6. Gottdiener: 18.

7. Crevier: 27.

8. D’Adrade: 182.

9. Crevier: 210.

10. Crevier: 240.

11. Stephen Manes and Paul Andrews, *Gates: How Microsoft’s Mogul Reinvented an Industry and Made Himself the Richest Man in America* (New York: Simon & Schuster/Touchstone, 1993).

12. Negroponte: 164.

13. Arturo Escobar, “Welcome to Cyberia: Notes on the Anthropology of Cyberculture,” *Current Anthropology*, 34 (3) (June, 1994): 221.

14. Escobar: 222.

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CHAPTER 28

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18. Graham and Marvin.
19. Wellman in Smith: 95, citing Roxanne Hiltz and Murray Turoff, *The Network Nation* (Reading: Addison-Wesley, 1979); Peter Johnson-Lenz and Trudy Johnson-Lenz, "On Facilitating Networks for Social Change," *Connections* (Winter, 1978): 571; and Ronald E. Rice and Associates, *The New Media: Communication Research and Technology* (Beverly Hills: Sage Publications, 1984).
20. Manuel Castells, *The Rise of the Network Society* (Cambridge: Blackwell, 1996): 378-471, 472, 386.
21. Howard Rheingold, *The Virtual Community: Homesteading on the Electronic Frontier* (New York: Harper Perennial, 1994): 3.
22. Rheingold.
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28. Annalee Saxenian, *Regional Advantage: Culture and Competition in Silicon Valley and Route 128* (Cambridge: Harvard University Press, 1994): 31.
29. Saxenian: 31, 33
30. Saxenian: 34.
31. Saxenian: 34.
32. Saxenian: 36, 37
33. Peters.
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35. Saxenian: 115.
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37. Jean Deitz Sexton, *Silicon Valley: Inventing the Future* (Hong Kong: Windsor Publications, 1992). See also Ward Winslow, ed., *The Making of Silicon Valley* (Palo Alto: Santa Clara Valley Historical Assn., 1995).
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39. *Joint Venture*.
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CHAPTER 29

1. Richard Tarnas, *The Passion of the Western Mind: Understanding the Ideas That Have Shaped Our World View* (New York: Ballantine Press, 1993): 61; Thomas S. Kuhn, *The Copernican Revolution: Planetary Astronomy and the Development of Western Thought* (Cambridge: Harvard University Press, 1957). Stedman B. Noble points out the fallacy of relying on Greek concepts. History, he says, should use Darwinian concepts. "The foundation of Darwin's analysis became the view that each individual organism is different and each one passes its differences on to its progeny." Therefore, organisms could not be grouped into types with fixed properties. This was a break with Aristotle. Civilizations, Noble says, are like species with Darwinian characteristics. (In "World History versus World Civilization," a paper to the 1SCSC June 1993 conference in Scranton.)
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3. Wolf Schafer, "Global History, Historiographical Feasibility and Environmental Reality," in Bruce Mazlish and Ralph Buultjens, eds., *Conceptualizing Global History* (Boulder: Westview Press, 1993): 51.
4. Schafer in Mazlish and Buultjens: 52.
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6. Carroll Quigley, *The Evolution of Civilizations: An Introduction to Historical Analysis* (New York: Macmillan, 1961); and a series of papers about states systems and empires by David Wilkinson, Matthew Melko, and John Hord delivered to annual conferences of the International Society for the Comparative Study of Civilizations. Many of these are cited in the references of David Wilkinson's "Civilizations are World Systems!," in Stephen K. Sanderson, ed., *Civilizations and World Systems* (Walnut Creek: Alta Mira Press, 1995).
7. David Wilkinson, "Civilizations, States Systems and Universal Empires," paper delivered to the 1SCSC conference in Buffalo, May 26-28, 1983; and John Hord, "Times of Order, Times of Chaos," to the same conference. Wilkinson also distinguishes between a dominant power's empire, a great power's empire, and an expanding regional empire.
8. Hayden White, *Metahistory: The Historical Imagination in Nineteenth-Century Europe* (Baltimore: Johns Hopkins University Press, 1973). See also Oswald Spengler, *Der Untergang des Abendlandes: The Decline of the West*, 2 vols., tr. C. E. Atkinson (London: Allen & Unwin, 1932), primarily a comparison of Western and Greco-Roman civilizations; Arnold Toynbee, *A Study of History*, 12 vols. (London: Oxford University Press, 1934-1961); Sociologist Pitirim A. Sorokin, *Social and Cultural Dynamics*, 4 vols. (New York: American Book Co., 1937-1941), and *Modern Historical and Social Philosophies* (New York: Dover, 1963) (Sorokin was critical of Toynbee); and the writings of Herbert Spencer such as *First Principles* (London, Williams and Norgate, 1862) and *Principles of Sociology* (London, Williams and Norgate, 1885). See Clyde Kluckhohn, "Some Reflections on the Method and Theory of the Kulturkreislehre," *American Anthropologist*, 38 (1936): 157.
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11. Christopher Chase-Dunn and Thomas D. Hall, "Cross-World-System Comparisons," in Sanderson: 109, 119, 120; Stephen K. Sanderson and Thomas D. Hall, "World Systems Approaches to World Historical Change," in Sanderson: 96.

12. Barry K. Gills, "Capital and Power in the Processes of World History," in Sanderson: 140; Andre Gunder Frank and Barry K. Gills, eds., *The World System: Five Hundred Years or Five Thousand?* (London: Routledge, 1991).

13. See Christopher Chase-Dunn, *Global Formation: Structures of the World-Economy* (Oxford: Blackwell, 1989); Christopher Chase-Dunn and Thomas D. Hall, eds., *Core-Periphery Relations in Precapitalist Worlds* (Boulder: Westview Press, 1991); Chase-Dunn and Hall in Sanderson: 115, quoting Wilkinson; 10, citing Frank and Gills; and 103, citing Chase-Dunn and Hall. See Andre Gunder Frank, *World Accumulation, 1492-1789* (New York: Monthly Review Press, 1978).

14. Sanderson and Hall in Sanderson: 98. I have relied on the brilliant summary of Wallerstein's views in Wilkinson, "World Economic Theories and Problems: Quigley vs. Wallerstein vs. Central Civilization," a paper to the 15csc conference, Hampton, Virginia, May 26-29, 1988. See Immanuel Wallerstein, "Hold the Tiller Firm, on Methods and the Unit of Analysis," in Sanderson; *The Capitalist World-Economy* (Cambridge: Cambridge University Press, 1979); and *The Modern World Systems*, vols. 1 and 2 (New York: Academic Press, 1974, 1980). Carroll Quigley said there was a core/periphery in all periods. Gills and Frank said there were only temporary and shifting regional hegemony.

15. Karl Polanyi, Conrad M. Arensberg, and Harry W. Pearson, eds., *Trade and Market in the Early Empires* (Glencoe: The Free Press, 1951).

16. Gills in Sanderson: 144, 145.

17. Bryan Bunch and Alexander Hellemans, *The Timetables of Technology* (New York: Touchstone, 1993): 5, 75, 77.

18. See J. P. Mallory, *In Search of the Indo-Europeans: Language, Archaeology and Myth* (London: Thames & Hudson, 1989); P. G. Foote and D. M. Wilson, *The Viking Achievement* (London: Sedgwick and Jackson, 1970); David Morgan, *The Mongols* (Oxford: Blackwell, 1986).

19. James Henry Breasted, *The Conquest of Civilization* (New York: Literary Guild, 1926, 1938).

20. Paraphrased by Victor Roudometof and Roland Robertson, "Globalization, World System-Theory and the Comparative Study of Civilizations: Issues of Theoretical Logic in World-Historical Sociology," in Sanderson: 282. David Richardson has defined civilization as a society or ecumene containing all the people who share a worldview, which is a matrix of intuitive cognitions and feelings.

21. Gordon W. Hewes, "Alfred Louis Kroeber as a Pioneer of Civilizational Analysis," paper for 1975 15csc conference in Pittsburgh, citing Kroeber, *Configurations of Culture Growth* (Berkeley: University of California Press, 1944); Alfred Louis Kroeber, *Style and Civilization* (Ithaca: Cornell University Press, 1944); and other works. American scholar John Hord has defined civilization as an autonomous formal knowledge system (such as Catholicism, science, Marxism-Leninism) together with the people subscribing to it ("Civilization: A Definition, Part I," *Comparative Civilizations Review*, 33 (Fall 1991): 28-51; see also Part II, 26 (Spring 1992): 111-135). He says in the latter, 130: "No formal knowledge system is ever completely integrated because every civilization includes some actual events, or characteristics, that are deeply offensive to its basic values." 131: "Not all assumptions are covenant, and not all folkways are law." 132: Each civilization "could also contain sub-civilizations each of which is built around its own formal knowledge system subordinate to or contained within the overarching one." See also Roger Williams Wescott, "Language and Civilization: Contributions of Linguists to the Comparison of Cultures," *Comparative Civilizations Review*, 33 (Fall 1995): 21-32. In his "Civilization in Context," *Comparative Civilizations Review*, 29 (Fall 1993): 16-28, Wescott analyses the biological, linguistic, diachronic, ritual, mythic, iconographic, and noetic contexts.

22. Paraphrased by Vytautas Kavolis, "Civilization Theory and Collective Identity in the Postmodern-Globalizing Age," a paper presented to the 15csc conference May 26-29, 1988 at Hampton University, citing Max Weber, *The Sociology of Religion* (Boston: Beacon Press, 1963); Max Weber, *Economy and Society: An Outline of Interpretive Sociology* (Berkeley: University of California Press, 1978); and other works by Weber.

23. Kavolis.
24. William H. McNeill, "The Rise of the West after Twenty-Five Years," in Sanderson: 309 (reprint of an essay published in 1990). McNeill and Hodgson taught at the University of Chicago's history department in the same period. Hodgson died in 1968 at the age of 48.
25. See Immanuel Wallerstein, *Unthinking Social Science* (London: Polity Press, 1991).
26. McNeill in Sanderson: 308. Matthew Melko, "The Nature of Civilizations," in Sanderson: 29: civilizations vary in their degree of integration, both over time and compared to one another; 31: "All the characteristics of a civilization relate to and modify one another."
27. Louis Dumont, *Essays on Individualism: Modern Ideology in Anthropological Perspective* (Chicago: University of Chicago Press, 1986).
28. Edmund Burke III, editor's preface to Marshall G. S. Hodgson, *Rethinking World History* (Cambridge: Cambridge University Press, 1993): xx.
29. Louis Menand, "Human Rights as Global Imperative," in Mazlish and Buultjens: 184.
30. Hodgson: 114, 115.
31. Hodgson: 116, 117.
32. Hodgson: 117.
33. Hodgson: 115-117, 149 et seq.
34. Hodgson: 115.
35. Hodgson: 141.
36. Hodgson: 141.
37. Hodgson: 149. However, Burke cautions that Hodgson was reading his own predilections in his reading of Islam: 319.
38. See David Bidney, *Theoretical Anthropology* (New York: Columbia University Press, 1953), and Marvin Harris, *The Rise of Anthropological Theory* (New York: Thomas Y. Crowell, 1968).
39. See Ernst Cassirer, *The Philosophy of Symbolic Forms*, tr. Ralph Manheim, 3 vols. (New Haven: Yale University Press, 1953-1957); Morris Philipson, *Aesthetics Today* (Cleveland: Meridian Books, 1964); Rene Wellek and Austin Warren, *Theory of Literature*, 3rd ed. (New York: Harvest, 1956); Siegfried Kracauer, *Theory of Film: The Redemption of Physical Reality* (New York: Galaxy, 1966); Warren Dwight Allen, *Philosophies of Music History* (New York: Dover, 1962); Walter Abell, *The Collective Dream in Art* (New York: Schocken Books, 1966); the writings of Carl Jung and much more; Corinne Lathrop Gilb, "Can We Measure Beauty?," paper to September, 1969 New York City conference of the American Political Science Association.
40. Florence Kluckhohn and Fred L. Strodtbeck, *Variations in Value Orientations* (Westport: Greenwood Press, 1973).
41. Matthew Melko said in his 1985 1SCSC paper: an empire occurs as the resolution of periodic crises in state systems, often when a peripheral challenger arises to seek a power redistribution in the system. See also Quigley.
42. Matthew Melko, *The Nature of Civilizations* (Boston: Porter Sargent, 1969). On conflict as connection, see Georg Simmel, *Conflict and the Web of Group-Affiliations*, tr. Reinhard Bendix (Glencoe: Free Press, 1955); Lewis A. Coser, *The Functions of Social Conflict* (New York: Free Press, 1956).
43. Wilkinson, "World Economic Theories...," "Civilizations are World Systems!," in Sanderson: 251, and "Central Civilization," in Sanderson: 52.
44. Kavolis.
45. Although I was both program chairperson and local arrangements chairperson for that 1SCSC conference and also subsidized it, I played no role in the production of Sanderson's book. Its chapters cover only a few of the kinds of topics covered in that conference.
46. Neva R. Goodwin, "The Rounding of the Earth: Ecology and Global History," in Mazlish and Buultjens: 39, 40.

47. Bruce Mazlish, "An Introduction to Global History" in Mazlish and Buultjens: 21.
48. Schafer in Mazlish and Buultjens: 50.
49. Menand in Mazlish and Buultjens: 179, 181, 189.
50. Wang Gungwu, "Migration and Its Enemies," in Mazlish and Buultjens; Sterling Seagrave, *Lords of the Rim: The Invisible Empire of the Overseas Chinese* (New York: G. P. Putnam's Sons, 1955). At an Asia Society conference in Seoul in May, the U.S. Ambassador to Korea remarked that the Overseas Chinese had a \$2.71 trillion economy. See also Wang Gungwu, *China and the Chinese Overseas* (Singapore: Times Academic Press, 1991) and *Community and Nation* (Sidney: Allen & Unwin, 1992).
51. Chase-Dunn and Hall in Sanderson: 128.
52. Andrew Bosworth, "World Cities and World Economic Cycles," in Sanderson: 211. Bosworth: 210 says cities form economic, political, and social systems. I believe it is more accurate to say that such systems work through and help to form cities. See Herbert J. Muller, *The Uses of the Past: Profiles of Former Societies* (New York: Galaxy, 1952): 53-55 re "The City as Center and Symbol."
53. David Wilkinson, "World Economic Theories...": 54.
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55. Raoul Naroll, E. C. Benjamin, E. K. Fohl, M. J. Fried, R. E. Hildreth, and J. M. Schaefer, "Creativity: A Cross-Historical Pilot Survey," *Journal of Cross-Cultural Psychology*, 2: 181-188.
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