

CURRICULUM VITAE

SALLY YEATES SEDELOW (Mrs. Walter A., Jr.)
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OFFICE:

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EDUCATION:

Ph.D. Byrn Mawr College, 1960
M.A. Mount Holyoke College, 1956
B.A. University of Iowa, 1953, with High Honors

HONORS:

Phi Beta Kappa, Adelaide L. Burge Award, Margaret Fowler Award,
Mortar Board, Merit Scholarships - University of Iowa
Non-Resident Scholar and The Fellow in English - Bryn Mawr

PROFESSIONAL EXPERIENCE

University of Arkansas at Little Rock
Professor of Computer Science; Adjunct Professor of English
1985 - present

University of Arkansas
Graduate Institute of Technology
1985 - present

University of Kansas
Associate Dean, College of Liberal Arts and Sciences
1979 - 1985

University of Kansas
Professor of Computer Science & of Linguistics
1970 - 1985

National Science Foundation
Director, Intelligent Systems Program, Division of Mathematical & Computer
Science, (On leave from University of Kansas)
1976 - 1977

National Science Foundation
Director, Techniques and Systems Program, Division of Computer Research, (On
leave from University of Kansas)
1974 - 1976

University of North Carolina/Chapel Hill
Associate Professor, English and Computer & Information Science
1966 - 1970

Saint Louis University
Assistant Professor, English
1964-1966

System Development Corporation
Consultant
1964 - 1967

System Development Corporation
(formerly a division of The RAND Corporation)
Human Factors Scientist in Research Directorate
(Artificial Intelligence)
1962 - 1964

Rockford College
Assistant Professor, English
1961 - 1962

Parsons College
Assistant Professor, English
1960 - 1961

Smith College
Instructor, English
1959 - 1960

FACULTY DEVELOPMENT

Intra-University Visiting Professorships, EXXON Foundation Grantee, 1979-1981.

RESEARCH, RESEARCH MANAGEMENT AND EVALUATION

Co-Principal Investigator: A Foundational Knowledge Representation for Knowledge-Based Systems. National Science Foundation, Knowledge Models and Cognitive Systems, Sept. 1991-Feb. 1994, \$201,775.

Evaluator, Proposals, U.S. Department of Education (Post-Secondary Education), Dwight D. Eisenhower Leadership Program, Washington, D.C., 8-13 August, 1993.

Chair, Computer Science Panel, Undergraduate Course and Curriculum Development Program, National Science Foundation, November, 1991.

Member, Presidential Panel on Young Investigators, January, 1991.

Review Panel Member, Instrumentation Laboratory Program, National Science Foundation, January, 1991.

Fellowship, Air Force Summer Research Program for Faculty, Rome Air Development Center, Rome, NY, 1989.

Principal Investigator: Understanding Knowledge Representation in Dictionaries, Thesauri, and Free Text. National Science Foundation, 1985 - 1988.

Co-Principal Investigator: Getting at Disciplinary Interdependence: Modelling Connectedness Across Disciplines. EXXON Education Foundation, 1985 - 1989.

Program Committee, Advances in Lexicology, University of Waterloo, 1986.

Principal Investigator: EXXON Research Grant, Getting at Disciplinary Interdependence, 1983-1986.

NSF: Managing Board, Computer Communication Network, 1981-1983.

NSF Review Panel, Computer Science Research Equipment Proposals, 1981.

Computer Applications Panel, National Endowment for the Humanities, 1975-1977.

NSF Program Director (See Professional Experience)

Ad Hoc service as Acting Head of Computer Science Section during tenure as NSF Program Director.

Research evaluation for many NSF proposals during tenure as NSF Program Director, and since.

Principal Investigator, Research Contract, Office of Naval Research, Information Systems Branch, 1964-1974.

Co-Principal Investigator, NSF Research Grant Study re Possible National Center/Network for Computational Research on Language, 1971-1973.

Research Review Panel, National Endowment for the Humanities, 1973-1976.

Senior Fulbright-Hayes Program, Advisory Screening Committee in Computer Science, 1973-1977; Chairman, 1976-1977.

Advisory Committee for Computing Activities, National Science Foundation, 1972- 1973.

Member of Advisory Panel, National Science Foundation's Institutional Computing Services Section, 1968-1970; Advisory Panel, Computer Applications in Research Section, 1970-1971. Proposal Evaluation for both sections.

Committee on Information Technology, American Council of Learned Societies, 1970-1973.

Proposal Evaluation, Canada Council, 1968- .

Proposal Evaluation, National Science Foundation, 1969- .

Proposal Evaluation, National Endowment for the Humanities, 1969- .

Proposal Evaluation, Special Projects Program, NSF, 1970.

Proposal Evaluation, Division of Social Systems and Human Resources, NSF, 1972.

Reviewer, IEEE Transactions, 1974- .

Reviewer of Papers, National Computer Conference, 1973.

Reviewer of Papers for FJCC, 1968-1972 and SJCC, 1969-1972.

Reviewer of Papers, IFIP Congress, 1971, 1974, 1976.

Reviewer of Papers, ACM Annual Conference, 1971- .

Field Reader of Proposals, U.S. Department of Health, Education, and Welfare, 1966-1971.

Reviewer and Session Chairman, Humanities, Conference on Computers in the Undergraduate Curriculum, Dartmouth, 1971.

RESEARCH PLANNING AND FORECASTING

Co-Organizer, Research Presentation for Visiting Scientist from Fujitsu Corp., Japan, in Rome, N.Y., May, 1989.

Attendance at American Education Research Association Meetings in New Orleans, May, 1988, as Consultant for Research Director for EXXON Education Foundation.

Evaluator, FBIS Invitational Seminar on Machine Aids to Translation, Washington, D.C., May, 1978.

Invited Participant, Airlie House Conference to chart next five years of US-USSR Scientific Exchange Program, December, 1977.

Evaluator, FBIS Seminar on Machine Translation, Washington, D.C., March, 1976.

International Workshop on Cybernetic Systems, Juarez, Mexico, October, 1975.

Chairman, Panel on the Use of Technology in the Delivery of Educational Services, Productivity Planning Conference, National Institute of Education, February 5-7, 1974.

Invited Participant, Conference on Data Dissemination for Carcinogenesis Research, National Cancer Institute, January 29-February 1, 1974.

Member, Modern Language Association Ad Hoc Planning Committee for National Archive for Literary Texts, 1973-1974.

Invited Participant, Workshop on Computer Reactions, Attitudes, and Literacy, April 30 - May 1, 1973, Institute for The Future.

Invited Participant, EDUCOM Working Seminar on a National Science Computer Network, December, 1972.

Co-Chairman, Workshop on Languages and Humanities, EDUCOM Fall Conference, 1972.

Invited Participant, Conference on Validation and Distribution of Computer Software, University of Colorado, March 30-31, 1972.

Session Chairman, Conference on Research Trends in Computational Linguistics, Washington, D.C., 1972.

Chairman, Investigative Committee on "Shakespeare and the Computer," for World Shakespeare Congress, August, 1971, Vancouver.

Chairman, Curriculum Section, ACLS/NSF Conference on Computing Technology in the Humanities, University of Kansas, September 2-6, 1969.

Member, Review Panel, Session on "The Humanities and Social Sciences," Fall Joint Computer Conference, 1967.

Chairman and Panelist, Conference on "The Computer and Research in the Humanities," University of North Carolina, March, 1967.

CONSULTING

Consultant-National Center for Toxicological Research, 1989-.

Consultant-University of Denver Computer Science Department, 1980-1981.

Consultant-St. Michael's College (Burlington, VT) 1980.

Resource Faculty Member, Staff, NSF Summer Institute for Computer Science in Social and Behavioral Science Education, University of Colorado, June, 1973.

Consultant, College of Human Ecology, Michigan State University, 1973; Seminars for Professional Development of Faculty in Human Ecology, May 14-15, 1973.

Consultant, Institute for Educational Computing, Claremont College, January, 1972.

Instructor, NSF Summer Workshop for Faculties of Lynchburg, Randolph-Macon and Sweet Briar Colleges, 1971.

Consultant, University of New Mexico, November 29-30, 1969.

Consultant, Coordinated Science Laboratory, Cognitive Memory Project, University of Illinois, May 19-23, 1969.

Instructor, Study Institute on Computer-Aided Language Analysis in Education, American Education Research Association, Chicago, February, 1968.

PROFESSIONAL ACTIVITIES

NATIONAL, INTERNATIONAL

Member, Accreditation Review Council, Panel Meeting, North Central Association, June, 1993.

Accreditation Visit, North Central Association, Bowling Green State University, February, 1993.

Member, National Research Council Review Panel, Physics, Astronomy, Mathematics, (NSF Minority Graduate Fellowship Programs): February, 1993, and February, 1992.

Member, Accreditation Review Council, Panel Meeting, North Central Association, January, 1992.

Appointed to four-year term on Accreditation Review Council, North Central Association, Sept. 1, 1991-Sept. 1, 1995.

Accreditation Visit Preparation, North Central Association, Knowledge Systems Institute, Skokie, Illinois, October, 1990.

Accreditation Visit, North Central Association, Indiana State University, Terre Haute, April, 1990.

Accreditation Visit, North Central Association, U.S. Air Force Academy, March, 1989.

Participant, Connection Machine Institute, NPAC (Northeastern Parallel Architectures Center), Syracuse, N.Y., July 9-21, 1989.

Accreditation Visit, North Central Association, De Paul University, February, 1987.

Advisory Board, Business Program (with special reference to computational issues, and to possible joint executive MBA program with UALR), Arkansas College, Batesville, Arkansas, 1987, 1988.

Accreditation Visit, North Central Association, Northern Arizona University, September, 1987.

Accreditation Visit, North Central Association, Wayne State University, October, 1986.

Consultant-Evaluator, North Central Association (Accreditation), 1986- .

Organizer and Chair session on "Computer Science as a Discipline: Its Problems and Issues within the Context of A&S Colleges," Annual Meeting, Council of Colleges of Arts and Sciences, San Antonio, November, 1983.

Invited Member, Southwest Regional Selection Panel, Mellon Fellowships, 1982-1985.

District Councillor, Bryn Mawr College, 1981-1984.

Organizer and Chair, Bryn Mawr College Regional Conference, Chicago, April, 1983.

Invited Participant, American Council on Education National Forum, 1980.

Invited Delegate, Bryn Mawr College Regional Conference on Planning for the 80's, Chicago, March, 1980.

U.S. Delegation, Computational Linguistics, State Department US-USSR Scientific Exchange Program, 1978.

Chairman, Modern Language Association Group on Computer Studies in Language and Literature, 1978. Secretary, 1977.

Session Chairman, Joint Workshop on Pattern Recognition and Artificial Intelligence, June, 1976.

✓ Co-Editor, Computer Studies in the Humanities and Verbal Behavior, 1966- 1975.

Education Committee, American Federation of Information Processing Societies, 1974-1976.

Chairman, Computer Application Section, Midwest Modern Language Association, 1973-1974.

Chairman, Nominating Committee, Special Interest Committee on Language Analysis and Studies in the Humanities, Association for Computing Machinery, 1973.

Advisory Committee, Computer Application Section, Midwest Modern Language Association, 1973-1977.

Secretary, Computer Applications Section, Midwest Modern Language Association, 1971-1972.

Member, Technical Area Committee 7 on "Science and Humanities" for Fifth IFIP Congress, Ljubljana, Yugoslavia, 1971.

Session Chairman, "Time-Shared Text and Information Handling," FJCC, 1970.

Visiting Scientist, National Science Foundation/Association for Computing Machinery
Visiting Scientist Program, 1969-1970.

Founding Chairman, Special Interest Committee on Language Analysis and Studies in the
Humanities, Association for Computing Machinery, 1968- 1970.

Chairman, Modern Language Association's Conference on "The Use of Computing Devices
for the Study of Literature," 1965.

UNIVERSITY ACTIVITIES

Member, Planning Committee for Interdisciplinary Computer Science doctoral degree
program, 1992-.

Member, Departmental Promotion and Tenure Committee, Graduate Studies Committee,
UALR, 1988-.

Member, Blue Ribbon Undergraduate Curriculum Committee, UALR, 1985-1988.

Member, Ad Hoc Committee for Master's Degree in Computer and Information Science,
UALR, 1985-1988.

Member, Dean's Search Committee for Computer Science Chairman, UALR, 1985- 1986.

President, University of Kansas Phi Beta Kappa Chapter, 1983-1986; Vice- President,
University of Kansas Phi Beta Kappa Chapter, 1982-1983.

Graduate School Long-Range Planning Task Force, University of Kansas, 1979.

Board of Trustees, Center for Research, Inc., 1979-1982.

Chairman, University Senate Ad Hoc Committee on Academic Computing, University of
Kansas, 1977-1979.

Member, Associate Executive Vice Chancellor's Committee on Computing Resource
Allocation, University of Kansas, 1977-1978.

University Council, University of Kansas, 1974-1977.

Selection Committee for Rhodes, Marshall, and Danforth Fellowships, University of Kansas,
1974.

Graduate Council, University of Kansas, 1973-1974. Affirmative Action Committee for Vice-Chancellor for Academic Affairs, University of Kansas, 1973-1974.

Graduate Area IV Committee, University of Kansas, 1971-1974.

Faculty Senate Committee on Scholarly Publication, University of Kansas, 1971.

Nominating Committee, Kansas Alpha Chapter of Phi Beta Kappa, 1971.

University Research Fund Evaluation Subcommittee, University of Kansas, 1971.

PAPERS

"Knowledge Recognition, Rough Sets, and Formal Concept Lattices," International Workshop on Rough Sets and Knowledge Discovery (RSKD-'93), Banff, October, 1993. (In Press.) Co-author.

"Graph Theory, Set Theory, & Order Theory in Semantic Space Analysis for Use in Knowledge Representation," Proceedings, The World Congress on Expert Systems, Lisbon, January, 1994. (In Press.) Co-author.

"A Word Among Words," Third International Conference of Word and Image Studies, Ottawa, Canada, August, 1993.

"The Concept Concept," ICCI '93, 5th International Conference on Computing and Information, Sudbury, Ontario, Canada, May, 1993.

"Competing Models of Lexical Association: Graph Theoretic," Dictionary Society of North America, Ninth Biennial Meeting, Las Vegas, Nevada, May, 1993.

"Graph-Theoretic Semantic Analysis," Western Social Science Association, Corpus Christi, Texas, April, 1993.

"Formally Modelling and Extending Whole-Language-Scale Semantic Space," Society for Computing in Psychology Annual Meeting, St. Louis, Missouri, November, 1992.

"Natural Language Computing and the Presence/Absence of Structure in Text and Discourse," 17th Annual European Studies Conference, Omaha, Nebraska, October, 1992.

"Recent Model-Based and Model-Related Studies of a Large-Scale Lexical Resource," Biennial International Conference on Computational Linguistics (COLING '92), Nantes, France, July, 1992. (Co-Presenter.)

- "Discourse Analysis: Topological Models for Whole-Language Semantic Analysis Methods," International Conference on Social Science Methodology, Trento, Italy, June, 1992.
- "Modelling a Thesaurus," Allgemeine Algebra Faculty and Graduate Students, Technische Hochschule, Darmstadt, Germany, June, 1992.
- "Metatheoretical and Empirical Implications of Computational Literary Research," Internationale Gesellschaft für Empirische Literaturwissenschaft, Memphis, Tenn., May, 1992. (Co-Presenter.)
- "Artificial Intelligence: A New Tack," Midwest Artificial Intelligence and Cognitive Science Conference, Utica, Illinois, May, 1992. (Co-Presenter, Double Time-Slot.)
- "Formally Modelling a Language's Semantic Space," Western Social Science Association, Denver, April, 1992.
- "Interlingual Semantic Mapping," Pacific Telecommunications Conference, Honolulu, Hawaii, January, 1992.
- "Modelling Micro-connectivities Within A European University via Graph Theoretic Structures," 16th Annual European Studies Conference, University of Nebraska/Omaha, October, 1991.
- "An Associative Approach to Senses and Meanings: Background," Dictionary Society of North America, University of Missouri/Columbia, August, 1991.
- "Conceptual Analysis via Associative Semantic Sub-Spaces," Society for Conceptual and Content Analysis by Computer, Leinsweiler Seminars, Leinsweiler, Germany, July, 1991.
- "Graph-Theoretic Aids to Clarifying Intellectual and Interpersonal Interdependencies," International Council on Innovation in Higher Education, Annual Meeting, Technical University, Budapest, Hungary, June, 1991.
- "Psychological and Linguistic Models and AI Models," 33rd Annual Conference, Western Social Science Association, Reno, Nevada, April, 1991.
- "Exploring the Terra Incognita of Whole-Language Thesauri," Third Midwest Artificial Intelligence and Cognitive Science Society Conference, Southern Illinois University, Carbondale, IL., April, 1991.
- "Topologic Modeling of Semantic Space: Integration of 'Whole Language' and Word Sense Research for Europe's Languages," 15th Annual European Studies Conference, University of Nebraska/Omaha, October, 1990.
- "Models of Natural Language Processing System Users: Computational Approaches,"

International Pragmatics Association, Barcelona, Spain, July, 1990.

"Whole-Language Semantic Coding with Formal Models," The Max Planck Institut at Nijmegen, The Netherlands, June, 1990.

"Computer-Assisted Language Learning through an Interlingual Communication Support System," 10th International Meeting of Society for Conceptual and Content Analysis by Computer, University of Siegen, Federal Republic of Germany, June, 1990. Co-Presenter with Walter A. Sedelow, Jr.

"Computational Discourse Analysis vis-a-vis Automatic Text Disambiguation Through a Topologic Model," 17th International Association for Literary and Linguistic Computing Conference, University of Siegen, Federal Republic of Germany, June, 1990. Co-Presenter with Walter A. Sedelow, Jr.

"Modelling University Functions vis-a-vis Work Force Requirements, Utilizing Petri Nets," Western Social Science Association, 32nd Annual Conference, Portland, Oregon, April, 1990.

"Facilitating Knowledge Transfer Across Languages: Techniques for Establishing Whole-Language Semantic Space Differentials," Third World Studies 12th National Conference, Omaha, Nebraska, October, 1989.

"The Automatic Disambiguation and Analysis of Natural Language Utilizing Roget's International Thesaurus," USAF, Systems Command, Rome Air Research and Development Center, Griffiss AFB, Rome, N.Y., June, 1989. (Co-Presenter with Walter A. Sedelow, Jr.)

"Whole-Language Semantics," Syracuse University: NPAC (Northeastern Parallel Architectures Center); School of Computer and Information Science; School of Information Studies, May, 1989. (Co-Presenter with Walter A. Sedelow, Jr.)

"Computer Science vis-a-vis General Linguistics," Western Social Science Association Conference, Albuquerque, New Mexico, April, 1989.

"Concept Association," Arkansas Academy of Science, Little Rock, April, 1990.

"The Interlingual Thesaurus Model for Global Technical Communication: Research Results," 8th Annual Conference, Languages and Communication for World Business and the Professions, Ann Arbor, Michigan, March, 1989.

"Whole-Language Semantic Modelling, with Knowledge Representation Applications," Computer Science Department Colloquium, Michigan State University, March, 1989. (Co-Presenter with Walter A. Sedelow, Jr.)

- "Comparative Computational Lexicology," European Studies Conference, University of Nebraska, Omaha, Nebraska, October, 1989.
- "Knowledge Retrieval from Domain-Transcendent Expert Systems: II. Research Results," American Society for Information Science, Annual Meeting, Atlanta, Georgia, October, 1988. Senior author, with Donna Weir Mooney.
- "European Languages: New Communication Prospects: Comparative Computational Lexicology," Proceedings, 13th Annual European Studies Conference, University of Nebraska/Omaha, pp. 301-309.
- "The Application to Business-Industry of the Domain-Transcendent Expert System Building Methodology," Conference on the Impact of Artificial Intelligence on Business and Industry (co-presenter with Walter A. Sedelow, Jr.), University of North Texas, Denton, October, 1988.
- Research presentation on Natural Language Computing, National Center for Scientific Research, Paris, France, 28 June, 1988.
- "Toward a Strict 'Science of Universities'," Improving University Teaching, Fourteenth Annual Conference, Umea, Sweden, June 20-23, 1988 (co-presenter with Walter A. Sedelow, Jr.).
- "Faculty Lifelong Learning and Intellectual Growth," Improving University Teaching, Fourteenth Annual Conference, Umea, Sweden, June 20-23, 1988 (co-presenter with Walter A. Sedelow, Jr.).
- "A Topological Semantic-Space Model of English as a Knowledge Representation Structure," Computer Science Department Colloquium, University of Copenhagen, Denmark, 10 June 1988.
- "Computer-Communication and Human-Language Computing Factors," Canadian Studies Section, Western Social Science Association Annual Meeting, Denver, Colorado, 27-30 April 1988.
- "Natural Language Computing as a Trans-Cultural Avenue to Scientific/ Technological Knowledge for Minorities," National Science, Technology, and Society Conference on Technological Literacy, Arlington, Virginia, 5-7 February 1988.
- "What Makes for a Healthy Organization? An Analysis to Help Overcome Isolation," Societies for Psychodrama and Sociometry, 12th Annual Conference, Dallas, Texas, 5-8 November 1987.

- "Cognitive Robotics and Europe's Future: Current European Capability for Cognitive Robotics," Twelfth Annual European Studies Conference, University of Nebraska at Omaha; October, 1987.
- "An Interlingual Communications Support System (ICSS) Example Re Chinese/English Classroom Instruction," Methods III, International Conference on Foreign Language Teaching, University of Northern Iowa, Cedar Falls, Iowa; September, 1987.
- "Artificial Intelligence, Expert Systems, and Productivity: Knowledge Representation and Productivity," Symposium on Psychology and Productivity: Bringing Together Research and Practice, University of Arkansas/Little Rock, Arkansas; August, 1987.
- "NLC (Natural Language Computing): Problems and Solutions," First Annual Bioscience Database Group, Little Rock, Arkansas; May, 1987.
- "The Interlingual Communication Support System (ICSS) Approach to Modulating English/French Language Issues in Canada," Canadian Studies Section and Mass Communications Section, Western Social Science Association, El Paso, Texas; April, 1987.
- "Natural-Language Computing: Past, Present, and Future," Sigma Xi Lecture, UALR, March, 1987.
- "Computer-Based Planning Technology: A Planning Resource for Administrators, Faculty, and Students," International Conference on New Technology and Higher Education, Orlando, Florida; February, 1987.
- "Thesaural Knowledge Representation," International Conference on Advances in Lexicology, Waterloo, Canada; November, 1986. (Co-presented with Walter A. Sedelow, Jr.)
- "European vs U.S. Universities: The Inner Structure Analysis Approach: Some Preliminary Findings," European Studies Conference, October, 1986.
- "Non-Numeric Computing as a U.S./Canadian Enterprise," Eastern Economics Association Conference, Philadelphia, April, 1986.
- "Semantic Discrimination Through Thesaural Chains," Kentucky Foreign Language Conference, April, 1986.
- "Computational Literary Thematic Analysis: The Possibility of a General Solution," American Society for Information Science, Las Vegas, October, 1985.
- "The Authority of Dictionaries and Thesauri," European Studies Conference, October, 1985.

- "Computational Semantics: The Question of a General Solution," Kentucky Foreign Language Conference, April, 1985.
- "Using the Computer to Seek Out Canadian Identity in Language Usage," Canadian Studies Conference, Fort Worth, April, 1985.
- "Recent Computationally-Assisted Language Research in the Soviet Union," Central Slavic Conference, Columbia, Missouri, October, 1984.
- "Natural Language Computer Networking Knows No Canadian Boundary," Annual Meeting, Canadian Studies Association, La Jolla, California; April, 1984.
- "Computational Linguistics and Ethnic Genres," Annual Conference on Ethnic and Minority Studies, Kansas City, MO; March, 1984.
- "Being Scientific About the Humanities in Europe," Eighth Annual European Studies Conference, Omaha, NB; October, 1983.
- "A Technological Fix? - What Can/Could MT (Machine Translation) Contribute to Resolving the Two-Language Problems in Eastern Canada," Annual Meeting, Canadian Studies Association, Albuquerque, NM; April, 1983.
- "Discourse Analysis and a Fourteenth-Century Scientific Text," Annual Meeting, Midwest Modern Language Association, Cincinnati, OH; November, 1982.
- "The Current State/Problems/Prospects of Machine Translation (MT)," Fifth Third World Conference, Omaha, NB; October, 1982.
- "European Scientific Discourse," Seventh European Studies Conference, Omaha, NB; October, 1982.
- "The Computer Challenge of Japan and the USSR," Convocation, Nebraska Wesleyan University, February, 1982.
- "Literary and Discourse Computing," Symposium on Approaches and Resources in Foreign Area Studies Programs, Washington, D.C., November, 1981.
- "Prague School Linguistics and USSR 'Natural Language' Computing Laboratories," Sixth European Studies Conference, October, 1981.
- "The Formalization of Historical Discourse Research," Third Mid-America Conference on History, Southwest Missouri State University, Springfield, MO, September, 1981.
- "How as a Discourse Analyst, I Now Would Look at Chaucer's Ethno Science," International Conference on Medieval Studies, Western Michigan University, May, 1981.

- "Aspects of Natural Language Computing in the USSR," Central Slavic Conference, March, 1981.
- "The Algorization of Symbolic Analysis," Fourth Third World Conference, Omaha, NB; October, 1980.
- "Labeled-Graph Theory and the Analysis of System Discourse," Fifth European Studies Conference, Omaha, NB, October, 1980.
- "Discourse-Level Dialectology," American Dialect Society Midwest Regional Meeting, Minneapolis, November, 1980.
- "The Analysis of Discourse vis-a-vis Intelligent Systems for Medicine," Sixth Illinois Conference on Medical Information Systems, Champaign, Illinois, April, 1980.
- "Systemic Linguistics vis-a-vis Historical Data," Missouri Valley Historical Conference, March, 1980.
- "Coherent-Discourse Analysis," Fourth European Studies Conference, Omaha, NB; 1979.
- "Computational and Mathematical Linguistics: Determining the Deeper Patterns in Negotiating Assumptions," Annual Third World Conference, Omaha, NB; October, 1979.
- "Computer Science and the Analysis of Human Discourse: The Bridge to Formality," Apollo Agonistes: The Humanities in a Computerized World," State University of New York at Albany, April, 1979.
- "Historical Interpretation in a Discourse-Analytic 'Frame'," Second Annual Third World Conference, Omaha, NB; November, 1978.
- "Competing Models for AI Analysis of Client-Therapist Transactions," Second Annual Symposium on Computer Applications in Medical Care, Washington, D.C., November, 1978. (Co-authored with Walter A. Sedelow, Jr.)
- "Computer Graphics and Natural Language Computing," First National Conference on Graphics, Leesburg, VA; October, 1978.
- "The Legendary Humanist and the Mythical Computer," International Symposium on Creatures of Legendry, Omaha, NB; October, 1978.
- "To the Sentence and Beyond: The Analysis of Discourse," Kansas University Linguistics Department Colloquy, April, 1978.

- "Making 'Bias' Explicit: Formalization and Computing in Analyzing the Symbolic Components of Civilizations,' International Society for the Comparative Study of Civilizations Meeting, April, 1978.
- "A Computational Methodology for Studying Third World Symbolic Behavior," Third World Conference, November, 1977.
- "Computer Science and Discourse Analysis for the Historian," Mid-America Conference on History, September, 1977.
- "Analysis of Natural Language Discourse," National Computer Conference, New York, June, 1977.
- "Intelligent Systems Research," Director's Program Review, NSF, November, 1976.
- "Pattern Recognition for Nuclear Medicine," Presentation in Interagency Seminar, NSF, September, 1976.
- "Formalized Historiography, The Structure of Scientific and Literary Texts: Some Issues Posed by Quantitative Methods in the History of Science," University of California, , August, 1976. (Co-presented with Walter A. Sedelow, Jr.)
- "Discourse Analysis for CAI," Association for Educational Data Systems Meeting, May, 1976.
- "Computer-Aided Discourse Analysis," Conference on Perspectives on Language, University of Louisville, May, 1976.
- "Discourse Analysis and the Computer," Bryn Mawr Graduate School Symposium in Honor of the English Department, October, 1975.
- "Literature, Fine Arts and the Machine," Phillips Fund Lecture, Haverford College, April, 1974.
- "Natural Language Patterning," SUNY, Albany, January, 1974.
- "One Culture," Modern Language Association Annual Meeting, December, 1973.
- "Patterns in Natural Language," Psychology Pro-seminar, University of Kansas, December, 1973.
- "Literary Text Processing," Computational Linguistics Session, National Computer Conference, June, 1973.

- "A Schema for Integrating Symbolic Behavior Research in Near Environments," Michigan State University, May, 1973.
- "Pattern Recognition in Natural Language Research," Rutgers University, May, 1973.
- "Some Research Problems in Computational Linguistics," Michigan State University, October, 1972.
- "Report on the Study of a Center/Network for Computational Research on Language," Annual Meeting, Association for Computational Linguistics, Chapel Hill, North Carolina, July, 1972.
- "Software, National Center for Computer Based Language Research," Conference on Validation and Distribution of Software, University of Colorado, March, 1972.
- Lecture in Series on Interdisciplinary Uses of Computers in Education, DePauw University and Wabash College, October, 1971.
- "Models, Computing and Stylistics," Mount Holyoke College, Sigma Xi Lecture, December, 1970.
- "Computer Systems to Facilitate Research in the Humanities," Virginia Polytechnic Institute, as Distinguished Visiting Scholar, May, 1970.
- "Computer Education for the Humanist," Symposium: Computers in Undergraduate Curricula, North Carolina Educational Computing Service, November, 1969.
- "Computer-Aided Analysis of Humanistic Artifacts," University of British Columbia, September, 1969.
- "VIA and MAPTEXT: Programs for Stylistic Analysis," University of Alberta at Edmonton, September, 1969.
- "Teaching Computing to the Humanist," IBM Program for Deans of Humanities and Liberal Arts, Poughkeepsie, New York, August, 1969.
- "A Curriculum for the Humanist," IBM Symposium on Introducing the Computer into the Humanities, Poughkeepsie, New York, June, 1969.
- "Communicating with the Computer About Humanistic Research," State University of New York, Conference at Brockport, April, 1969.
- "The Computer and the Humanities: A Contradiction?" National Science Foundation Conference on the Computer and Undergraduate Education, September, 1968.

"Computer-Aided Research in the Humanities," Advances in Computing, Fourth Stony Brook Conference, June, 1968.

"Categories and Procedures for Content Analysis in the Humanities," National Conference on Content Analysis, University of Pennsylvania, 1967. (With Walter A. Sedelow, Jr.)

"Four Faces of Language Analysis," American Documentation Institute, New York, October, 1967.

"Form Recognition in Literature," International Federation of Information Processing Societies, New York, May, 1965.

"The Use of Computing Devices for the Study of Literature," MLA Conference, New York, December, 1964.

"Skylarking with Chaucer," Medieval Festival at Rockford College, October, 1961.

LECTURES ON COMPUTER-AIDED RESEARCH IN THE HUMANITIES

Virginia Polytechnic Institute (Distinguished Visiting Scholar), May, 1970.

Clarke College, Iowa, May, 1970. (ACM/NSF Visiting Scientist Program).

University of Kansas, February, 1970.

University of Nebraska at Omaha, December, 1969. (ACM/NSF Visiting Scientist Program).

University of New Mexico, November, 1969.

Maryville College, Tennessee, October, 1969. (ACM/NSF Visiting Scientist Program).

University of California at Berkeley, June, 1969.

Pennsylvania State University, November, 1968.

Ohio State University, May, 1968.

University of Delaware, April, 1968.

University of Notre Dame, March, 1968.

University of Pennsylvania, February, 1968.

University of Connecticut, April, 1966.

California Institute of Technology, March, 1966.

University of North Carolina at Chapel Hill, February, 1966.

Conference on the Computer and the Humanities, Texas A&M, December, 1965.

Conference on Computer-Aided Research in the Humanities, Purdue University, October, 1965.

Southern Illinois University at Carbondale, February, 1965.

LECTURES ON COMPUTER-AIDED STYLISTIC ANALYSIS

Skidmore College, April, 1971.

Southeastern Modern Language Association, Annual Meeting, November, 1970.

Omaha, Nebraska, ACM Chapter, December, 1970.

University of Illinois, May, 1969.

Colgate University, Hamilton, New York, April, 1969.

State University of New York at Buffalo, April, 1969.

Harverford College, Phillips Fund Lecture, February, 1969.

University of Colorado, Boulder, July, 1967.

Missouri Academy of Science, St. Louis, April, 1965.

American Documentation Institute, Philadelphia, October, 1964.

Association for Machine Translation and Computational Linguistics, Bloomington, Indiana, July, 1964.

American Bibliographical Center, April, 1964.

Southern California Bryn Mawr Club, January, 1964.

LECTURES ON COMPUTER-AIDED ANALYSIS OF LANGUAGE

Colloquium, Linguistics and Computer Science, University of Kansas, 1971.

Carolina Chapter, Association for Computing Machinery, November, 1966.

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Naval Intelligence Research Advisory Group, Washington, D.C., June, 1965.

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National Council of Teachers of English, Houston, TX, November, 1966.

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Virginia Polytechnic Institute, May, 1970. (Distinguished Visiting Scholar).

Lawrence University, April, 1970. (ACM/NSF Visiting Scientist Program).

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International Conference on Computers in the Humanities, University of Minnesota, July, 1973.

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