ANNUAL REPORT
1984-1985

Harold L. Votey, Jr.
Director

COMMUNITY AND ORGANIZATION RESEARCH INSTITUTE
University of California, Santa Barbara

August 22, 1985
COMMUNITY AND ORGANIZATION RESEARCH INSTITUTE

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Harold L. Votey, Jr., Director
Perry Shapiro, Associate Director
Terence R. Smith, Associate Director
Barbara Hagen, Administrative Assistant
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Joan Dandona, Senior Word Processor
Bee Hanson, Senior Word Processor

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James Pellegrino (Graduate School of Education)
Jon Sonstelie (Economics)
M. Stephen Weatherford (Political Science)
Madeline Jackson (Graduate Student Representative)
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THE DIRECTOR'S STATEMENT

The 1984-85 fiscal year has been an outstanding one for CORI in terms of extramural funding. On the basis of grants for which we had been notified of approval prior to June 15, awards amounted to $1,093,692 from public and private grantor agencies plus $32,000 of funds solicited directly from private industry in 16 individual gifts, for a total of $1,125,692. Of these funds $484,855 did not achieve the legal status of grants until July 1 or later, even though funding begins officially on or before that date. Defined on the basis of expenditure approved, we can claim an increase in grants awarded of 22.9% over the previous fiscal years and the highest level of grant activity in CORI's history. Again, the gain has been a consequence of increases in the size of grants, rather than in numbers.

CORI'S SCOPE IN INTERDISCIPLINARY RESEARCH

From the outset, CORI has been charged to "serve as a major resource for basic research in the social sciences with faculty participation in interdisciplinary research." The charge is two-dimensional. CORI has, from its inception, worked to expand opportunities for clients to succeed in basic research. At the same time considerable effort continues to be expended to encourage interdisciplinary involvement. The latter is the more difficult task.

Table I indicates the time path of participation in funded research by faculty, students, and professional researchers. The trends inherent in the table are reflected in Figure 1 that depicts the path of annual grant awards and number of projects supported. These data confirm the continuation of a greater than 20% annual growth in extramurally supported research in CORI.

We in CORI feel that we can be justly pleased with such a growth record, but while this record reflects a continued support by CORI clients over the years, it must be recognized that most of the credit goes to the clients themselves. The ultimate key to success is to be able to field good proposals and this requires faculty and research staff who are capable researchers able to communicate their abilities to deal with challenging research questions.

The role of CORI's staff is to create an atmosphere in which the difficulties of proposal submission and grants administration are minimized. Further, we try to provide space and services that make the research itself progress more easily. Additionally, we must work continuously to bring our services to the attention of researchers with new ideas who haven't been making use of our services. And we need to get across to potential proposal writers the possibilities for enriching proposals and the ultimate research products by involving researchers from other disciplines so that important questions regarding the subject are not overlooked. CORI's success in becoming more of an
Table 1
PERSONNEL AFFILIATED WITH C.O.R.I.

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Figure 1 COMMUNITY & ORGANIZATION RESEARCH INSTITUTE
Historical Pattern of Funds Granted
And Number of Successful Proposals *

* Not including private and corporate gifts or intramural funds
for special projects and programs
+ Based on start date rather than contract award date
interdisciplinary operation is illustrated in Table 2. While the table indicates the range of disciplines involved, it also reveals that, while a broad cross-section of disciplines is involved in the research grants administered through CORI, only about 45% of the subjects for research are being investigated on an interdisciplinary basis. While this is a reasonably high proportion for university research in general, the numbers show that there remains a substantial proportion of activities that might be broadened by involving the perspectives of other disciplines.

That the average size of grants has been increasing substantially (and more rapidly than the rate of inflation) is a revelation that the perceived quality of the research proposals submitted through CORI has been improving. This reflects favorably on the very effective group of CORI clients who continue to channel their efforts through CORI.

THE SCOPE OF CORI RESEARCH

The scope of CORI research has been expanding over the years in terms of faculty and student participation, as indicated in Table 1. The breadth of present activities is illustrated in Table 2. The potential is broader still as one can see by perusing the scope of proposals submitted in Sections A-1 and A-2.

Such traditional areas of research as water involve Lloyd Mercer, W. Douglas Morgan, and Margriet Caswell. Walter Mead continues to be involved in energy research and George Borjas' research on labor migration and labor discrimination advances to new questions on a continually challenging topic. Llad Phillips along with Harold Votey continue to investigate issues relating crime and labor market opportunities with a new kind of data and different estimation techniques than they have used in the past. Perry Shapiro along with Daniel Rubinfeld of the Boalt School of Law and Theodore Bergstrom of the University of Michigan make substantial progress and acquire new funding for their studies of demand for public goods. Ronald Williams remains one of the more successful clients in terms of continuity and magnitude of support for his work on the factors contributing to neonatal and perinatal survival and his more recent development of data systems for the collection of public health data on which such research may be based. The work of Warren Hollister on his computer data base from the Domesday Book and with the help of Robin Fleming, both in history, continue to be supported by funds from the UCSB Foundation.

An important new area of research is being directed by Daniel Botkin for the California Department of Fish and Game and the State Assembly. His focus is on the ecological systems relating to the Mono Lake Basin and the potential impacts of exporting water from that basin for municipal water supplies. Another new area of research is that by William Bielby just getting underway to study men's and women's competing commitments to work and family.
Table 2

CORI Research Projects and Disciplines Involved in 1983-84

Disciplines:

Research Area:

An approach to funding that is new to CORI has been used by James Cronshaw, who has had remarkable success in his conference on Phloem Transport by seeking financial support from private sector firms whose activities have bearing on this important research. His success in the direct approach suggests that some other researchers may be missing a bet in not taking full advantage of the potential for broader support by self-interested firms.

CHANGING DIRECTIONS IN CORI

Probably the most active area within CORI in terms of proposals generated over the past year relates to cognitive and spatial concepts. Such work potentially involves learning, robotics, the ability to function in a spatial environment, and basic supportive research in a number of areas such as data base management, expert systems, and artificial intelligence. Thus far, proposals have been generated by computer scientists, faculty in education, geography, and psychology. Planned research will also likely link to work being conducted on campus in robotics and to such public health concerns as the development of aid to the blind for operating in complex spatial environments.

Both intramural and extramural funds have been acquired in this past academic year to promote the Center for the Study of Spatial Cognition and Performance that is the focal point for these broadly conceived research interests. Substantial support has come from the Academic Senate for computer hardware for conducting experiments in cognition. Campus funds have also provided for a LISP machine, a sophisticated computer to facilitate the development of computer software for the aspects of artificial intelligence important to a variety of the projects anticipated and getting underway. Faculty who have been directly involved with this development are Roberta Klatchky in Psychology, James Pellegrino in the Graduate School of Education, and Terence Smith in Geography and Computer Science. Sally Doherty, a post-doctoral student in psychology, is employed full-time on this research. Others involved in related research are Ralph Dubayah and Donna Peuquet in geography. If proposals submitted and the initial responses of funding agencies are an indication, these activities promise to be the most productive in CORI in attracting extramural support. The long run expectation is that cognitive studies will become an important academic program, initially at the graduate level, as well as a promising area of research.

Another new area for CORI that is not so fully developed as cognitive science, but that promises to be an important new area of activity for the campus is decision science. Activities directed by David Messick in psychology and Perry Shapiro in economics hold promise for the development of an academic program in an area that encompasses both their disciplines and will likely involve others as the program becomes established. The new program envisions both the development of theory and
experimentation to broaden our understanding of decision processes and to train students in techniques for more effective management of decision making.

CORI SERVICES

Providing services to research clients continues to be the justification for CORI's existence. Most important is assistance in promptly getting out proposals to meet agency deadlines, often a seemingly difficult task with the many hurdles that must be overcome by prospective researchers. CORI has yet to miss a deadline when there has been any reasonable hope of completing word processing, budgets, and the acquisition of required approvals for submission because we realize that efficient proposal submission is the necessary first condition for any researcher to be a successful CORI client. This work is supervised by Barbara Hagen, who can provide help on budget submission requirements and all aspects of proposal submission. She is ably assisted by Jeanie Cornet, Joan Dandona, and Bee Hanson for word processing and copying. Jeanie Cornet maintains a computerized system of accounting to assure that grant financial records are up to date and easily accessible.

A major concern of most researchers is to be able to acquire space in which the research can be conducted. CORI maintains excellent space for research assistants and provides help in acquiring space to most unique grant requirements. In addition, CORI can provide space for research seminars, site meetings with funding agencies and for staff meetings of research teams. Two seminar type meeting rooms are available in North Hall plus the Pellish Room, a deluxe meeting space for important visitors from off campus and for special meetings for the planning and initiation of multidisciplinary projects.

An important aspect of proposal submission, grants management and research reporting is the facility to get out printed materials quickly and easily. CORI maintains a high quality word processing operation with a Tandy Model 16 computer and printers. That machine is a multiuser machine that can simultaneously be used to maintain CORI's accounts. Additionally, CORI has acquired an IBM PC/AT that is being used for developmental work and that with a UNIX operating system ultimately will be used as a backup to the XENIX system presently used for word processing. It is expected that this will be coupled with a laser printer to provide quality output for research papers and reports. Experimentation is planned to link the AT to PC's for combining printing and pooling of software to facilitate improved scientific computing.
SUMMARY OF HIGHLIGHTS

Major Events

In 1984-85 two research centers were established under the auspices of GORI. The first, the Center for the Study of Spatial Cognition and Performance (CSSCAP) is under the direction of Roberta Klatzky (Psych), James Pellegrino (Psych and Grad School of Ed), and Terence Smith (Geog and Comp Sci). The function of CSSCAP is to provide a focus for interdisciplinary research on problems concerning spatial perception, spatial cognition and spatial performance as they arise in connection with both people and machines. Presented this year was a series of seminars with distinguished speakers from universities nationwide and private industry.

The Decision Science Center was also established under the direction of David Messick (Psych) and Perry Shapiro (Econ). The focus of this center is on research in individual decision making, group decision making, macro versus microprocesses, mathematical foundations of decision theory, conflicting preferences, bargaining, negotiations, and applied decision analysis. The goals of the center are to develop proposals to support both research and curriculum development. Distinguished speakers in a series of seminars presented this past year attracted a large interdisciplinary audience.

JULY 1984

Proposals Funded


Travel

Harold Votey attends the National Council for Crime Prevention Conference in Stockholm, Sweden to present two seminars: 1) on the results of his research on crime that applied related U.S. data to the effects of arrests and sanctions on drunken driving accidents in Sweden; and 2) on the results of his research on an econometric model of crime for Sweden. In addition, he visited Brighton, England to participate in the International Workshop on Methodology of Modelling Road Accident and Injury Patterns.

AUGUST 1984

Proposals Funded

P Shapiro, D Rubinfeld, T Bergstrom, "Community Choice and the Demand for Public Goods." NSF, $45,125.
SUMMARY OF HIGHLIGHTS (cont'd)

SEPTEMBER 1984
Proposals Funded

OCTOBER 1984
Breakthroughs in Research
R. Klatzky, J Pellegrino, and T Smith initiate a project to develop a conceptual and computational model of (1) configuring of the human hand for functional interaction with objects, and (2) the relationship between hand configuring and both lower-level visual perception and higher-level conceptual representations of objects and their functions.

R Klatzky demonstrates that haptic object recognition, i.e., the identification of objects by touch, is highly accurate and very fast, and is a far more effective means of perceiving and learning about three-dimensional objects than is commonly supposed.

DECEMBER 1984
Proposals Funded
J Cronshaw, "International Phloem Transport Conference." US Department of Agriculture, $3,000. NSF, $5,000.

Breakthroughs in Research
R Slater demonstrates that demographic data (population distribution, migration mortality ...) are typically collected from discreet geographic units. The use of bicubic splines to smooth subdata have been investigated and results obtained allow one to predict the intensities of these population phenomena at geographic levels other than those for which the (primary) data have been collected. This can save the expense of additional surveys or census. Contour maps of the splines can be displayed revealing intensity features of the population data.

JANUARY 1985
Proposals Funded

APRIL 1985
Proposals Funded
D B Botkin, HL Votey, "Research and Analysis to Satisfy AB 1614." California Department of Fish and Game, $250,000.

Travel
W J Mead travels to Australia and gives eight lectures on the subject of Alternative Gas and Leasing Systems. In New Zealand he gives three lectures concerned with Alternative Timber Sales and Policies.

MAY 1985
Travel
L Phillips travels to Monterrey, Mexico at the invitation of the Universidad Autonoma de Nuevo Leon, Department of Economics, as as continuation of exchange efforts among the faculty of UANL and UCSB for the development of research projects.
SUMMARY OF HIGHLIGHTS (cont'd)

W. J. Mead traveled to Bonn, Germany to attend the International Association of Energy Economists' Annual Meeting on OPEC as a Monopoly.

**JUNE 1985**

Proposal Funded
J. Cronshaw, "International Phloem Transport Conference."
Support from private contributions, $32,000.

Travel
W. J. Mead travels to the People's Republic of China to present results of his research project on the US experience in oil and gas leasing, funded by a grant from UERG. In Beijing he gave a paper before the China Association for Science and Technology. In Shanghai, at the Shanghai branch of the Association for Science and Technology, he discussed "Alternative Oil and Gas Leasing Systems, which China might use for its offshore oil and gas resources.

G. W. Johnson visits France and England and hold conversations at the Institute of Contemporary History in Paris regarding a possible joint research project in community history.

Highlights in Research
G. Wesley Johnson, principal investigator on a grant from NEH reports that five courses on Public Historical Studies were developed over the life of the grant: 1) "Graduate Seminar on Women and Public Policy in the Twentieth Century," Prof. Patricia Cline Cohen. 2) "History 110," Prof. Nancy Gallagher. This course covers medical systems, medical policies, and medical professionalism as they evolved in the twentieth century. As a result of this course, five hospitals in the Los Angeles area have written Public History Chairperson Carroll Pursell to inquire about their hiring intern from the Public Historical Studies Program to write histories of their medical institutions. 3) "Seminar in Legal History," Prof. Laura Kalman. This course covers the rise of the legal profession, changes in legal education, American constitutional law, and twentieth century American jurisprudence. 4) "Introduction to Public History, Prof. G. Wesley Johnson. This is a seminar course that centers on providing a definition of public history, how it developed in the 1970s as the demise of professional teaching opportunities became apparent, and in showing how the historical method can be applied to a number of situations outside the parameters of the university world. 5) "Profession-alism and Professionalization," Prof. G. Wesley Johnson. This seminar course was designed to give historical and current background on the comparative development of a number of professions.

Marian Johnson, principal investigator on a grant from the Pearl Chase Foundation, completes research on the Beautification of Santa Barbara Historical Preservation, and completes a total of 67 taped interviews with persons who were central participants in one or more phases of the beautification movement, or who were in a position to have first hand information about the politics, issues, and plans of the movement. Dr. Johnson also completed a thorough search of archival materials deposited in the Pearl Chase collection in the campus library.
RESEARCH IN PROGRESS

Title: Maternal and Child Health Data Base: Development, Application and Dissemination
Principal Investigator: Ronald L. Williams, Research Economist
Associates: E. Clingman, Specialist
            K. Rust, Specialist
            C. Phibbs, Consultant
Students: M. MacCauley, RA
          M. Hill, Data Processor
          S. Jacober, Data Processor
          T. Tran-Viet, Assistant
Staff: J. Marinko, Computer Programmer
Abstract: Application and development of the Maternal and Child Health Data Base will be continued and expanded.

Title: Automated Perinatal Information System
Principal Investigator: Ronald L. Williams, Research Economist
Staff: P. Chen, Sr. Computer Programmer
Abstract: An automated vital statistics system (AVSS) has been L.A. County hospitals. Data is collected on pregnancy and labor and delivery complications inorder to identify the sources of poor perinatal outcomes.

Title: Computerized Assessment of Spatial Abilities
Principal Investigator: James Pellegrino, Research Psychologist
Students: R. Abate, Research Assistant
          D. Alderton, Research Assistant
          T. McDonald, Research Assistant
Abstract: Work on the development of a computerized battery of spatial ability tests are being conducted.

Title: The Effects of Alternate Pricing Policies on the Adoption of Innovative Irrigation Systems in California
Principal Investigator: Margriett F. Caswell, Assistant Research Economist
Students: R. Lathrop, Research Assistant
Abstract: The final objective of this project is to estimate the impact of changing water prices on the volume of agricultural wastewater.
RESEARCH IN PROGRESS (cont'd)

Title: International Conference on Phloem Transport
Principal Investigator: James Cronshaw, Research Biologist

Abstract: A conference bringing together scientists from around the world who specialize in phloem transport will be held at Asilomar, California from August 18-23, 1985.

Title: Domesday Book Database
Principal Investigators: C. Warren Hollister, Research Historian
Robin Fleming, Associate Specialist

Students: K. Mack, Postgraduate Researcher
L. Helm, Research Assistant
J. Zukin, Assistant
Barbara Kargaard, Assistant
Daly, M., Research Assistant

Abstract: Work on a comprehensive database for the Domesday Book, the record of William the Conqueror's great land survey of A.D. 1986, will be continued.

Title: Constructing Geographic Expert Systems with Learning Capabilities
Principal Investigators: Terence R. Smith, Research Geographer
Ralph Dubayah, Research Assistant

Abstract: Exploring machine learning as applied to geographic expert systems (GES) is the objective of this research.

Title: Knowledge Based Engineering for Data Base Management and Use
Principal Investigators: Terence R. Smith, Research Geographer
Donna J. Pequiot, Assistant Research Geographer
John E. Estes, Research Geographer

Students: Chow, K., Research Assistant
Gersho, M., Assistant
Chen, C. Research Assistant
Liu, Y., Research Assistant
Solumanipau, I., Assistant
Zhan, C.X., Postgraduate Research Geographer
Agarwal, P., Research Assistant
Joglekar, U., Research Assistant

Title: Optimum Insurance for People Who Don't Want Any
Principal Investigator: John M. Marshall, Research Economist

Abstract: This project will study the disagreement between the theory of moral hazard and certain widely-believed propositions about disaster insurance and mitigation.
RESEARCH IN PROGRESS (cont'd)

Title: Creating a New Curriculum in Public History
Principal Investigator: G. Wesley Johnson, Associate Research Historian
Faculty: Carroll Pursell, Research Historian
Students: G.V. Askew, Research Assistant
A. Kahn, Postgraduate Research Historian
G. Graves, Postgraduate Research Historian
E.F. Manchuelle, Research Assistant
P.R. Yew, Assistant

Abstract: In combination with the Graduate Program in Public History, this grant provides funds for curriculum development in order to strengthen the graduate program, create a new undergraduate emphasis, and provide the means for faculty to develop new courses and receive further training.

Title: Creating a New Professional Person: The Public Historian
Principal Investigator: G. Wesley Johnson, Associate Research Historian
Faculty: Carroll Pursell, Research Historian

Abstract: A pioneering graduate program which aims at creating a new professional person: The Public Historian

Title: A Multilevel Analysis of U.S. Migration Flows
Principal Investigators: Terence R. Smith, Research Geographer
Paul B. Slater, Associate Research Geographer
Students: M. Schwab, Research Assistant

Abstract: Utilization of internal migration flow data on a county-to-county basis for the effective modeling of U.S. migration patterns is the basis of this research.

Title: The Effectiveness of Alternative Water Rationing Schemes
Principal Investigators: Lloyd J. Mercer, Research Economist
W. Douglas Morgan, Research Economist
Students: R. Lathrop, Postgraduate Research Economist
J. Bigley, Assistant

Abstract: Analyzing the potential of policy alternatives for improving nonstructural urban water demand management with focus on water conservation is the basis of this research.

Title: History of the Santa Barbara Beautification Movement
Principal Investigator: Marian Ashby Johnson, Academic Coordinator
Professional: D. Stevenson, Laboratory Assistant

Abstract: Through a series of oral history interviews with persons who were involved in establishing policies that led to the beautification of Santa Barbara from 1920, a library of taped interviews will be created.
Title: Community Choice and the Demand for Public Goods
Principal Investigators: P. Shapiro, D. Rubinfeld and T. Bergstrom, Research Economists
J. Roberts, Postgraduate Research Economist
Students: R. Burnett, R., Assistant
J.R. Church, Research Assistant
J. M. Doublet, Research Assistant
B. Miller, Research Assistant
Abstract: Empirical work done with data collected in surveys of voters
in Michigan and Massachusetts will accomplish the task
of estimating the demand for public goods (with particular
emphasis on public education).

Title: Evaluating Alternative Sanctions in an Individual Choice
Model: The Case of Drunken Driving Part II
Principal Investigators: P. Shapiro, Research Economist
H.L. Votey, Research Economist
Professionals: M. Schniepp, Assistant Research Economist
Students: Burnett, R.L., Assistant
Abstract: The objective of this research will be to derive information
that will lead to more effective legislation, enforcement,
and sanctioning policy to reduce the substantial losses
attributed to drunken driving.

Title: Male-Female Crime Rate Differentials: A study of Effects
of Causal and Control Forces
Principal Investigators: L. Phillips, Research Economist
H.L. Votey, Research Economist
Professionals: M. Schniepp, Assistant Research Economist
Abstract: The focus of this research is on the factors, both causal
and control, resposible for the changing crime rate
differentials between men and women.

Title: The Impact of Immigrants on the Earnings of Natives in
the U.S. Labor Market
Principal Investigators: George J. Borjas, Research Economist
Huang, WJ, Research Assistant
L.D. Singell, Postgraduate Research Economist
A. P. Williams, Research Assistant
Abstract: The impact of the foreign-born on the earnings of the
native-born in the U.S. labor market will be the focus
of this research.

Title: Sociological Aspects of Cleavage and Consensus Among Nations
Principal Investigator: Seth Fisher, Research Sociologist
Students: J. Iaocabellis, Assistant
D. Solomon
Abstract: Expansion of course, Soc 146/194.
RESEARCH IN PROGRESS (cont'd)

Title: Research and Analysis toSatify AB 1614
Principal Investigators: Daniel B. Botkin, Research Biological Scientist
Harold L. Votey, Jr., Research Economist

Abstract: California State Assembly Bill 1614, the Mono Lake Research Bill, requires a comprehensive analysis of the aquatic ecology, avifauna, air quality and hydrology of the Mono Basin. The primary purpose of this analysis is to aid the management of the Mono Basin.

Title: Focus on Mexico and the U.S.: A Cooperative Business
Principal Investigator: Harold L. Votey, Jr., Research Economist
Faculty: Llad Phillips, Research Economist

Abstract: A program of technical, economic and cultural interchange with the Universidad Autonoma de Nuevo Leon, Monterrey, Mexico.

Title: Generational Differences in Japanese Nationalists
Principal Investigator: Haruhiro Fukui, Research Political Scientist
Students: H.S. Park, Research Assistant

Abstract: Surveys and analyzes the arguments put forth to substantiate or counter the assertion that expansion of Japanese military capabilities or roles would adversely affect the U.S. and/or other friendly countries.
OTHER ACADEMIC ACTIVITIES

A. Seminars

A series of colloquium presented by the Center for the Study of Spatial
Cognition and Performance and jointly sponsored by the Departments
of Computer Science, Psychology, and Geography were well attended by
an interdisciplinary audience and generated a suitable intellectual
climate for further development of collaborative research programs.
Directed by Roberta Klatzky, James Pellegrino, and Terence Smith, the
SCCAP Center presented the following speakers:

January 18
Irving Biederman, Professor of Psychology
State University of New York at Buffalo
"Recognition-By-Components: A Computational
Hypothesis of Visual Image Interpretation"

January 25
Pat Langley, Professor of Information and Computer
Science, University of California at Irvine
and Executive Editor of Machine Learning
"Learning in a Reactive Environment"

February 19
Dr. Chris Brown, Chairman, Computer Science
Department, University of Rochester, New York
"The Evaluation and Use of Symmetry in Computer
Vision"

March 5
Dana H. Ballard, Computer Science Department,
University of Rochester, Rochester, New York
"Parameter Nets"

March 6
Dr. Dana H. Ballard, Computer Science Department
University of Rochester, Rochester New York
"Frame-Based Form Perception: Constraints,
Algorithms, Implementation"

March 13
Dr. Joyce Farrell, Research Scientist in Corporate
Engineering, Hewlett-Packard
"Information Transmission Between Displays and
People"

March 19
Dr. James Crowley, Research Scientist at the
Robotics Institute, Carnegie-Mellon University,
Pittsburgh, PA.
"Multiple Resolution Representation and Matching
of 2-D Gray-Scale Shape"

March 19
Dr. James Crowley, Research Scientist at the
Robotics Institute, Carnegie-Mellon University,
Pittsburgh, PA.
"Navigation for a Intelligent Mobile Robot"

April 12
Dr. Ruzena Bajcsy, Computer and Information Science
Department, University of Pennsylvania
"Integrating Vision and Touch for Robotics
Applications"
OTHER ACADEMIC ACTIVITIES (cont'd)

May 8
Dr. Jaime G. Carbonell, Associate Professor, Carnegie-Mellon University
"Analogical Reasoning in Learning and Problem Solving"

May 8
Dr. Jaime G. Carbonell, Associate Professor, Carnegie-Mellon University
"The Fermi Project: General inference patterns for multi-domain problem solving in the natural sciences"

May 17
Dr. Nancy Stein, Department of Psychology, University of Chicago
"The Development of Emotional Understanding"

May 20
Dr. Tom Trabasso, Professor, Department of Psychology, University of Chicago
"Causal Thinking and the Representation of Events in Stories"

A series of seminars in decision science was presented under the sponsorship of the Decision Science Institute, directed by David Messick and Perry Shapiro.

April 10
Dr. B. Fischhoff, Decision Research Inc., Eugene, Oregon

April 17
Dr. R. Hastic, Department of Psychology, Northwestern University

May 15
Dr. H. Einhorn, School of Business Administration, University of Chicago

May 23
Dr. K. McKinnon, Department of Psychology, University of British Columbia
B. Workshops

A series of workshops in Econometric, sponsored jointly with SPRI. Directed by Thomas Cooley (Economics) and Richard Berk (Anthropology).

November 16  Dr. David Brownstone, Department of Economics, U.C. Irvine. "Information Criteria and the Estimation of Misspecified Qualitative Choice Models"

January 25  Dr. Susan Scotchmer, Department of Economics, Harvard University "Equilibrium Strategies"

February 13  Dr. Eric Ghysels, Department of Economics, U.C.B. "Seasonal Adjustment and Monetary Policy"

March 4  Dr. John Geweke, Department of Economics, Duke University "Macroeconometric Modelling and the Theory of the Representative Agent"

March 11  Dr. Roger Craine, Department of Economics, U.C.B. "Do Leading Indicators Lead?"

April 10  Dr. John B. Taylor, Department of Economics, Stanford U. "Macroeconomic Policy in Different Countries"

April 19  Dr. Richard Meese, Department of Economics, U.C.B. "Testing for Rational Bubbles: The Case of Sparkling Forward Rates"


June 5  Dr. Michael Jussa, Department of Economics, University of Chicago "The Real Exchange Rate as a Tool of Commercial Policy"

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"Race, Labor Turnover, and Male Earnings." Industrial Relations, Winter 1984, pp.73-89. Article.

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The Competitive Effects of Vertical Agreements," (with WS Comanor),

in press.

The Public Historian, Editor in Charge. Published at UCSB and
sponsored by the National Council on Public History. In press.
A collection of papers of students enrolled in Public History
courses.

Klatzky, Roberta. "Visual memory: Definitions and functions. In R. Wyer,
T. Srull, and J. Hartwick (Eds.), Handbook of social cognition.

Recognizing familiar and unfamiliar faces. Memory & Cognition
1984, 12, 60-70. (with F. Forrest).

Memory and Awareness: An Information-Processing Perspective,

Paivio revised (Review of J. Yuille, Ed., Imagery, memory and

Armchair theorists have more fun (commentary). The Behavioral
and Brain Sciences, 1984, 7, 244.

The response criterion problem in tests of hypnosis and memory.
International Journal of Clinical and Experimental Hypnosis, in press.
(with M. Erdelyi).

Spatial-and-movement-based heuristics for encoding pattern
information through touch. Journal of Experimental Psychology:

Spatial-and-movement based heuristics for encoding pattern
information through touch: A reply to S. Millar. Journal of
Experimental Psychology: General, 1985, in press (with S. Lederman
and P. Barber).

Verbal rehearsal and memory in language disordered children.
Journal of Speech and Hearing Research, 1985, in press (with D.
Kirchner).

Identifying objects by touch: An "expert system." Perception &
Psychophysics, 1985, in press (with S. Lederman, and V. Metzger).

Experimental psychologists in industry: Perspectives of employers,
(with E. Alluisi, W. Cook, G. Forehand, and W. Howell).

Hand (Haptic Apprehension and Naming Device), Technical Report
85-RK-100, (with S. J. Lederman, R. Roan, and K. Andre). Center for
Study of Spatial Cognition and Performance.

Huebner Foundation, June 1985.
PUBLICATIONS (Contd)


Caswell, Margriet. "The Implications for Total Water Demand from the Adoption of Drip Irrigation in California Agriculture." Final Report for Water Resources Center Grant #683.

Doherty, Sally. "Developmental Changes in Neighborhood Scene Recognition." Submitted to *Child Development*.


Mead, Walter J. An untitled book manuscript is now being prepared based on work under contract with the U.S. Forest Service. This book will report on Forest Service timber appraisal policies and competition for timber in the Pacific Northwest. Research has been completed. Other authors are Dennis Muraoka, Mark Schniepp and Richard Watson.


________. "A Dynamic Simulation Analysis of Regional Economic Change with Increased Water Prices." *American Journal of Agricultural Economics*.


________. The Efficiency of the Supply of Local Public Education: A Micro-Based Test" (with Theodore Bergstrom, D. Rubinfeld and Judy Roberts), draft, January, 1985.

Slater, Paul. "A Citation-Based Taxonomy of Scientific Journals."

________. "Maximum-Entropy Convex Decompositions of Doubly-Stochastic and Nonnegative Matrices."

________. "World Population Distribution: Smoothed Representations."

International Migration and Air Travel: Global Estimation and Smoothing."


________. "Heuristic Spatial Search in a Very Large Geographic Database." (with Z. Chen), in preparation.


"Crime Causality and Control for Black and White Female Youth," a study funded by NSF (with Llad Phillips).

"Deterrence and Incapacitation Effects of Efforts to Control Drunken Driving," a study funded by the National Institute of Justice (with Perry Shapiro).

"Policy to Affect the Decision to Drink and Drive in Sweden," (with Perry Shapiro) for Brottförebyggande Radet, Stockholm.

Caswell, M. "The Economics of Input-Augmenting Technologies in Agriculture," invited lecture at the University of Venice, Italy, October 25, 1984.


Mead, WJ. "An Economic Analysis of OPEC as a Cartel," Faculty of University of Kuwait, April 3, 1985.


"The Performance Record of US Oil and Gas Leasing--Lessons for Others," Economics Department, University of Sydney, Sydney, Australia, April 19, 1985.


"Alternative Oil and Gas Leasing Regimes for Australia," Parliament of Australia (Caucus Committee), Canberra, Australia, April 24, 1985.


Ibid., School of Forestry, University of Canterbury, Christchurch, New Zealand, April 29.

Ibid., Forest Research Institute, New Zealand Forest Service, Rotorua, New Zealand, May 1.
Klatzky, R. "Perception of 2D and 3D patterns from touch." Presented at Convention of the American Psychological Assn., Toronto, August 1984 (with S. Lederman).


"Apprehending Form from Touch." Invited colloquium, Rice University, Houston, October 1984.

"Apprehending Spatial Information from Touch." Invited colloquium, University of Iowa, Iowa City, April 1985.


"International Migration and Air Travel: Global Estimation and Smoothing." International Union for the Scientific Study of Population, June 5-12, 1985, Florence, Italy.


"Youth, Public Policy and Countermeasures: The Role of Law Enforcement"
International Symposium on Alcohol, Drugs and Driving, Santa Monica, CA, January 9-11, 1985.

Williams, RL. "Monitoring Changes in Infant Mortality in California,"

"Pregnancy Outcomes Among California's Spanish-Surname Population."
Caswell, M. Appointed to the Committee on Irrigation-Induced Water Quality. Problems by the Water Science and Technology Board of the National Research Council. April 85 - April 88.


Fleming, R. Awarded the Van Courtlandt Elliott Prize from the Medieval Academy of America.


Editorial Experience: Continuing
Journal Referee: American Journal of Public Health
American Journal of Obstetrics & Gynecology
New England Journal of Medicine
Editorial Board: Journal of Perinatology
Consultant: Massachusetts Department of Public Health
Southern California Kaiser Permanente Medical Group
Michigan Department of Public Health
Elected Member: California Perinatal Association, Coordinating Council
Quality Assurance Task Force, Perinatal Advisory Council of the Los Angeles Communities
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$366032.90 $11823.54 $21248.56 $25514.47 $910.40
# Community and Organization Research Institute

## Expenditures - Intramural

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<th>DESCRIPTION</th>
<th>Admin Support</th>
<th>Supplies &amp; Expense</th>
<th>Direct Research</th>
<th>Special Projects</th>
<th>Funds Allocated by ORDA</th>
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APPENDIX - B 1984-85 ANNUAL REPORT

Community and Organization
ORU: Research Institute

STATISTICAL SUMMARY

1a) UCSB academic staff engaged in research:

<table>
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<tr>
<th>Category</th>
<th>Number</th>
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<td>a) Faculty</td>
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<tr>
<td>b) Professional Researchers</td>
<td>3</td>
</tr>
<tr>
<td>c) Specialists</td>
<td>2</td>
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<tr>
<td>d) Postdoctoral</td>
<td>5</td>
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<tr>
<td>e) Graduates</td>
<td>32</td>
</tr>
<tr>
<td>f) Undergraduates</td>
<td>9</td>
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<tr>
<td>g) Other (specify)</td>
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<tr>
<td><strong>Fellowships</strong></td>
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<td><strong>Total</strong></td>
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1b) Participation from other campuses, colleges, universities, and industry:

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<th>Category</th>
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<td>a) Faculty</td>
<td>6</td>
</tr>
<tr>
<td>b1) Graduates</td>
<td>6</td>
</tr>
<tr>
<td>b2) Undergraduates</td>
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<tr>
<td>b3) Other (designate)</td>
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<tr>
<td><strong>Seminar Speakers</strong></td>
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<td><strong>Industry</strong></td>
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<td><strong>Total</strong></td>
<td>50</td>
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See Appendix B-1

2) Number of employees and FTE in unit:

a) Employees on University Funds:

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<th>Number</th>
<th>FTE</th>
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<tr>
<td>Technical - Students</td>
<td>13</td>
<td>.89</td>
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Administrative 4 2.24
Clerical 2 1.50
TOTAL 18 4.70

TOTAL NUMBER: 18
TOTAL FTE: 4.70

b) Employees on Non-University Funds:

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<th>Number</th>
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<td>Professional</td>
<td>18</td>
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<tr>
<td>Technical</td>
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<tr>
<td>Administrative</td>
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<tr>
<td>Clerical</td>
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TOTAL NUMBER: 58
TOTAL FTE: 11.71
See Appendix B-2

3) Number of Publications: (See pg. 19 of Section A). TOTAL: 44

4) Number of proposals submitted. TOTAL: 32

5) Number of seminars, symposia, etc. sponsored by the unit:
(See page 16 of Section A). TOTAL: 26

6) Amount of space currently occupied (Sq. Ft.). TOTAL: 4236
See Appendix B-3
### A-1 EXTRAMURAL RESEARCH ACTIVITY

#### Proposals Submitted 1984/1985

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<th>Principal Investigator</th>
<th>Agency/Grant No.</th>
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<th>Period of Award</th>
<th>Status</th>
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<td>J. Estes, T.R. Smith (Geog.)</td>
<td>USGS</td>
<td>&quot;Knowledge Based Engineering for Data Base Management and Use&quot; Proposes to implement a knowledge-based geographic information system called GIRLS (Geographic Information Retrieval and Learning System). The system is designed as a basic tool so that users with interests in different knowledge domains may tailor the system to their own requirements.</td>
<td>100,394</td>
<td>10/01/84-09/30/85</td>
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<td>T. Smith, D. Pequett (Geog.)</td>
<td>NASA Ames</td>
<td>&quot;Knowledge Based Engineering for Data Base Management and Use&quot; Proposes to implement a knowledge-based geographic information system called GIRLS (Geographic Information Retrieval and Learning System). The system is designed as a basic tool so that users with interests in different knowledge domains may tailor the system to their own requirements.</td>
<td>100,394</td>
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<td>H. Fukui (Poli. Sci.)</td>
<td>Dept. of State</td>
<td>&quot;Generational Differences in Japanese Nationalism&quot; Proposes to survey and analyze the arguments put forth to substantiate or counter the assertion that expansion of Japanese military capabilities or roles would adversely affect the U.S. and/or other friendly countries.</td>
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<td>07/20/84-05/19/85</td>
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<td>T.R. Smith, D. Pequett, J. Estes (Geog.)</td>
<td>NSF SES 00799</td>
<td>&quot;Constructing a Self-Modifying Knowledge Based Geographical Information System&quot; Proposes to examine several theoretical issues concerning the construction of a Knowledge-Based Geographical Information System and integrate the results of this research into a running prototype of such a system.</td>
<td>5,000</td>
<td>03/15/84-02/28/86</td>
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<td>&quot;Computer Based Assessment of Complex Cognitive Abilities&quot;</td>
<td>443,852</td>
<td>07/01/85</td>
<td>06/30/89</td>
<td>Pending</td>
<td></td>
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</tr>
<tr>
<td>Proposes to conduct work on the development of complex cognitive performance. Nine projects will focus on individual differences in tasks varying in complexity.</td>
<td></td>
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<tr>
<td>&quot;Computerized Assessment of Spatial Abilities&quot;</td>
<td>48,267</td>
<td>01/01/85</td>
<td>12/31/85</td>
<td>Funded</td>
<td></td>
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<tr>
<td>Proposes to assess the components of spatial aptitude and expertise.</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>&quot;Computer Research Equipment&quot;</td>
<td>41,616</td>
<td>01/01/85</td>
<td>-</td>
<td>Denied</td>
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<td></td>
</tr>
<tr>
<td>(Computer Science)</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Proposes to 1) specify, test and verify parallel systems; 2) find errors and bottlenecks in parallel logic programs; 3) examine parallel processing in the context of Geographic Information Retrieval and Learning System; 4) develop appropriate methods for attacking the problem of numerical range.</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>&quot;Domesday Book Database&quot;</td>
<td>235,989</td>
<td>07/01/85</td>
<td>06/30/86</td>
<td>Funded</td>
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<tr>
<td>Proposed to extend the database of the Domesday Book beyond the completed Volume I &quot;Greater Domesday,&quot; to include Volume II, &quot;Little Domesday.&quot;</td>
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<tr>
<td>&quot;Men’s and Women’s Commitment to Work and Family&quot;</td>
<td>32,378</td>
<td>08/01/85</td>
<td>07/31/86</td>
<td>Funded</td>
<td></td>
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<tr>
<td>Proposed to study how work and family roles become sources of identity, how individuals develop preferences for a particular balance of work and family activities, and how commitments are affected by work experiences.</td>
<td></td>
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<td></td>
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<tr>
<td>&quot;Men’s and Women’s Commitment to Work and Family&quot;</td>
<td>32,661</td>
<td>07/01/85</td>
<td>06/30/86</td>
<td>Pending</td>
<td></td>
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</tr>
<tr>
<td>Proposed to study how work and family roles become sources of identity, how individuals develop preferences for a particular balance of work and family activities, and how commitments are affected by work experiences.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>&quot;Competition Among Hospitals&quot;</td>
<td>21,600</td>
<td>09/01/85</td>
<td>08/31/86</td>
<td>Denied</td>
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<td>This project is designed to improve our theoretical and empirical knowledge of hospital competition.</td>
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<tr>
<td>Name</td>
<td>Organization</td>
<td>Title</td>
<td>Amount</td>
<td>Start Date</td>
<td>End Date</td>
<td>Funded Amount</td>
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<tr>
<td>----------------------</td>
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</tr>
<tr>
<td>R. Williams</td>
<td>Public Health Svc.</td>
<td>&quot;Automated Perinatal Information System&quot; Proposes to test the feasibility of implementing a computer system for automating birth certificates in hospitals, and secondarily to test the improvement in timeliness and accuracy of the resultant perinatal information.</td>
<td>129,831</td>
<td>01/01/85-12/31/85</td>
<td></td>
<td>129,831</td>
</tr>
<tr>
<td>G. Borjas</td>
<td>Rockefeller</td>
<td>&quot;The Impact of Immigrants on the Earnings of Natives in the United States Labor Market&quot; Requests a supplement for publication costs for a paper on the impact of immigrants on the earnings of the native-born.</td>
<td>500</td>
<td>11/01/84-05/31/85</td>
<td></td>
<td>Denied</td>
</tr>
<tr>
<td>T. Smith, R. Dubayah</td>
<td>NASA</td>
<td>&quot;Constructing Geographic Expert Systems with Learning Capabilities?&quot; Proposes to focus on the concept of a spatially dispersed knowledge base, as applied to a distributed computer network.</td>
<td></td>
<td>07/01/84-06/30/85</td>
<td>84-85</td>
<td>13,500</td>
</tr>
<tr>
<td>R. Williams</td>
<td>CA Dept. of Health</td>
<td>&quot;Maternal and Child Health Database: Development, Application and Dissemination&quot; Proposes to continue the application and development of the Maternal and Child Health Data Base.</td>
<td>232,319</td>
<td>07/01/85-06/30/86</td>
<td>85-86</td>
<td>228,000</td>
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<tr>
<td>R. Williams</td>
<td>CA Dept. of Health</td>
<td>&quot;Maternal and Child Health Database: Development, Application and Dissemination&quot; Proposes to continue the application and development of the Maternal and Child Health Data Base.</td>
<td>20,792</td>
<td>09/01/84-06/30/84</td>
<td>Augmentation</td>
<td>22,720</td>
</tr>
<tr>
<td>J. Cronshaw, W. Lucas</td>
<td>US Dept. of Energy</td>
<td>&quot;International Phloem Transport Conference&quot; Proposes to hold an international conference on Phloem Transport in August 1985 to be held at the Asilomar Conference Center in California.</td>
<td>15,000</td>
<td>01/01/85-12/31/85</td>
<td>85-86</td>
<td>2,500</td>
</tr>
<tr>
<td>J. Cronshaw</td>
<td>USDA</td>
<td>&quot;International Phloem Transport Conference&quot; Proposes to hold an international conference in August 1985 to be held at the Asilomar Conference Center in California.</td>
<td>3,000</td>
<td>12/12/84-11/30/85</td>
<td>84-86</td>
<td>3,000</td>
</tr>
<tr>
<td>J. Cronshaw</td>
<td>NSF</td>
<td>&quot;International Phloem Transport Conference&quot; Proposes to hold an international conference in August 1985 to be held at the Asilomar Conference Center in California.</td>
<td></td>
<td>02/15/85-01/31/86</td>
<td>84-85</td>
<td>5,000</td>
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<tr>
<td>T. Smith, D. Pequet, J. Estes</td>
<td>Geog</td>
<td>Knowledge Based Engineering for Data Base Management and Use.</td>
<td>2,484</td>
<td>07/01/83-01/11/86</td>
<td>(Supplement)</td>
<td>2,484</td>
</tr>
<tr>
<td>Name</td>
<td>Institution</td>
<td>Project Title</td>
<td>Proposal Number</td>
<td>Start Date</td>
<td>End Date</td>
<td>Status</td>
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<tr>
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<tr>
<td>R. Ingham</td>
<td>NIH</td>
<td>&quot;Effects of Phonation/Pause Durations on Stuttering&quot;</td>
<td>387,814</td>
<td>12/01/85</td>
<td>11/30/88</td>
<td>Pending</td>
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<tr>
<td>J. Costello</td>
<td>(Speech)</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>J. Sengupta</td>
<td>NSF</td>
<td>&quot;Data Envelopment Analysis in Hierarchical Decision Systems to Measure Stochastic and Dynamic Aspects for Improving Management Decisions&quot;</td>
<td>80,140</td>
<td>07/01/85</td>
<td>06/30/87</td>
<td>Pending</td>
</tr>
<tr>
<td>(Econ.)</td>
<td></td>
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<tr>
<td>J. Sengupta</td>
<td>NSF</td>
<td>&quot;Efficiency Evaluation In Nonmarket Economic Systems: Uses and Extension of Efficiency Analysis&quot;</td>
<td>81,570</td>
<td>07/01/85</td>
<td>07/01/87</td>
<td>Pending</td>
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<tr>
<td>(Econ.)</td>
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<tr>
<td>J. Remak</td>
<td>NEH</td>
<td>&quot;Second Reich: Germany 1871-1918, A Reappraisal&quot;</td>
<td>61,871</td>
<td>10/01/85</td>
<td>12/31/86</td>
<td>Pending</td>
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<tr>
<td>(Hist.)</td>
<td></td>
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<tr>
<td>C. Stuart, M. Feldman</td>
<td>NSF</td>
<td>&quot;Life-Cycle Saving in an Uncertain Environment&quot;</td>
<td>32,261</td>
<td>07/01/85</td>
<td>06/30/86</td>
<td>Denied</td>
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<tr>
<td>(Econ.)</td>
<td></td>
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<tr>
<td>T. Cooley, W. Parke</td>
<td>NSF</td>
<td>&quot;Likelihood Methods of Prediction for Econometric Models&quot;</td>
<td>126,891</td>
<td>07/01/85</td>
<td>06/30/87</td>
<td>Denied</td>
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<tr>
<td>(Econ.)</td>
<td></td>
<td></td>
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<td></td>
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<td></td>
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<tr>
<td>Name(s)</td>
<td>Agency</td>
<td>Title</td>
<td>Award</td>
<td>Start/End</td>
<td>Status</td>
<td>Amount</td>
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</tr>
<tr>
<td>J. Sonstelie</td>
<td>NSF</td>
<td>&quot;Estimating the Comparative Efficiency of Public and Private Schools&quot;</td>
<td>53,537</td>
<td>07/01/85-07/01/86</td>
<td>Denied</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>The objective of the proposed research is to estimate the price of educational quality in the private sector.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>H.L. Votey, D. Botkin</td>
<td>State of CA Dept. of Fish &amp; Game</td>
<td>&quot;Research and Analysis to Satisfy AB 1614&quot; California State Assembly Bill 1614, the Mono Lake Research Bill, requires a comprehensive analysis of the aquatic ecology, avifauna, air quality and hydrology of the Mono Basin. The primary purpose of this analysis is to aid the management of the Mono Basin.</td>
<td>250,000</td>
<td>04/05/85-12/31/87</td>
<td>Funded</td>
<td>250,000</td>
</tr>
<tr>
<td>P. Shapiro, T. Bergstrom, D. Rubinfeld</td>
<td>NSF</td>
<td>&quot;Community Choice &amp; the Demand for Public Goods&quot;</td>
<td>45,125</td>
<td>08/01/84-01/31/86</td>
<td>Funded</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>The proposed research will accomplish three tasks, all related to estimating the demand for public goods, with particular emphasis on education.</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>P. Shapiro, T. Bergstrom, D. Rubinfeld</td>
<td>NSF</td>
<td>&quot;Community Choice &amp; the Demand for Public Goods&quot;</td>
<td>65,583</td>
<td>08/01/85-07/31/86</td>
<td>Funded</td>
<td>65,583</td>
</tr>
<tr>
<td></td>
<td></td>
<td>This project is a continuation of the above.</td>
<td></td>
<td>85-86</td>
<td></td>
<td></td>
</tr>
<tr>
<td>L. Phillips, H. Votey</td>
<td>NSF</td>
<td>&quot;Male/Female Crime Rate Differentials: A Study of Effects of Causal and Control Forces&quot;</td>
<td>55,710</td>
<td>07/15/84-12/31/85</td>
<td>Funded</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>The focus on this research is on the factors, both causal and control, responsible for the changing crime rate differentials between men and women. The modelling takes account of the role played by the changing status of women and the limitations that status places on their alternatives for providing for themselves and their children, for maintaining a home, acquiring an education, etc.</td>
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</tr>
<tr>
<td>Name</td>
<td>Organization</td>
<td>Project Title</td>
<td>Budget</td>
<td>Start Date</td>
<td>End Date</td>
<td></td>
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<tr>
<td>L. Mercer</td>
<td>Water Resources Center</td>
<td>&quot;The Effectiveness of Alternative Water Rationing Schemes&quot;</td>
<td>9,500</td>
<td>07/01/84</td>
<td>06/30/85</td>
<td></td>
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<tr>
<td>W.D. Morgan (Econ)</td>
<td>UERG</td>
<td>&quot;Private and Social Costs of Alternative Electric Power Technologies for California&quot;</td>
<td>19,826</td>
<td>07/01/84- 6/30/85</td>
<td>18,700</td>
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<tr>
<td>W.J. Mead (Econ)</td>
<td></td>
<td>&quot;International Phloem Transport Conference&quot;</td>
<td></td>
<td>05/01/85- 12/31/85</td>
<td>32,000</td>
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Total extramural proposals submitted 1984/85: $2,700,589
Extramural proposals funded: 608,837
Extramural proposals submitted 1984/85 and funded 1985/86: 484,855
Support from private contributions: 32,000
# A-2 Intramural Research Activity

<table>
<thead>
<tr>
<th>Principal Investigator</th>
<th>Agency/Grant No.</th>
<th>Title</th>
<th>$ Value</th>
<th>Total Funded 84/85</th>
</tr>
</thead>
<tbody>
<tr>
<td>R. Klatzky, J. Pellegrino, T. Smith (Psychology, Educ., Geog.)</td>
<td>Academic Senate</td>
<td>&quot;Interdisciplinary Studies of Spatial Cognition &amp; Performance&quot; This project deals with the integration of visual and motor information in pattern recognition.</td>
<td>5,088</td>
<td>3,750</td>
</tr>
<tr>
<td>Marion Ashby Johnson (Hist.)</td>
<td>Academic Senate</td>
<td>&quot;History of the Santa Barbara Beautification Movement&quot; Support oral history interviews with persons involved in the beautification of Santa Barbara from 1920.</td>
<td>3,341</td>
<td>2,500</td>
</tr>
<tr>
<td>R. Fleming, W. Hollister (Hist.)</td>
<td>UCSB Foundation</td>
<td>Domesday Book Database To support Volume II of the Domesday Book research.</td>
<td>15,000</td>
<td>15,000</td>
</tr>
<tr>
<td>T. Cooley, (Econ.) R. Berk (Soc.)</td>
<td>Academic Senate</td>
<td>CORI-SPRI econometric seminars Support for travel for guest speakers for the CORI/SPRI econometric workshops.</td>
<td>869</td>
<td>869</td>
</tr>
<tr>
<td>T. Cooley, (Econ.) R. Berk (Soc.)</td>
<td>ORDA</td>
<td>CORI-SPRI econometric seminars Support for travel for guest speakers for the CORI/SPRI econometric workshops.</td>
<td>750</td>
<td>750</td>
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<tr>
<td>S. Fisher (Soc.)</td>
<td>Instructional Development</td>
<td>&quot;Sociological Aspects of Cleavage and Consensus Among Nations&quot; Clerical assistance.</td>
<td>998</td>
<td>998</td>
</tr>
<tr>
<td>Name and Position</td>
<td>Institution</td>
<td>Project Description</td>
<td>Budget FY 84</td>
<td>Budget FY 85</td>
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<tr>
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<tr>
<td>R. Klatzky, J. Pellegrino, T. Smith (Psych., Educ., Geog.)</td>
<td>ORDA</td>
<td>&quot;Center for the Study of Spatial Cognition and Performance&quot; Establishes an interdisciplinary research group in Cognitive Science with an emphasis on problems in spatial cognition.</td>
<td>30,000</td>
<td>15,000</td>
</tr>
<tr>
<td>R. Klatzky, J. Pellegrino, T. Smith (Psych., Educ., Geog.)</td>
<td>L&amp;S</td>
<td>&quot;Center for the Study of Spatial Cognition and Performance&quot; Establishes an interdisciplinary research group in Cognitive Science with an emphasis on problems in spatial cognition.</td>
<td>20,000</td>
<td>20,000</td>
</tr>
<tr>
<td>J. Cronshaw (Bio. Sci.)</td>
<td>L&amp;S</td>
<td>&quot;International Conference on Phloem Transport&quot; In support of the Phloem Transport conference to be held at Asilomar on August 18-25.</td>
<td>2,500</td>
<td>2,500</td>
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<tr>
<td>H.L. Votey (Econ.)</td>
<td>ORDA</td>
<td>&quot;NIJ Crime Control Conference&quot;</td>
<td>1,150</td>
<td>1,150</td>
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<tr>
<td>H.L. Votey (Econ.)</td>
<td>ORDA</td>
<td>Travel to England</td>
<td>1,000</td>
<td>1,000</td>
</tr>
<tr>
<td>H.E. Frech, J.M. Woolley (Econ.)</td>
<td>ORDA</td>
<td>&quot;Hospital Competition Proposal Development&quot;</td>
<td>3,000</td>
<td>3,000</td>
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<tr>
<td>J. Sonstelie (Econ.)</td>
<td>ORDA</td>
<td>Proposal Development</td>
<td>400</td>
<td>400</td>
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<tr>
<td>CORI</td>
<td>ORDA</td>
<td>One Time Needs Office Equipment</td>
<td>843</td>
<td>843</td>
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<tr>
<td>CORI</td>
<td>ORDA</td>
<td>Computer Equipment</td>
<td>5,000</td>
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<tr>
<td>CORI</td>
<td>Bio-Sci</td>
<td>Biomedical Research Award from NIH, Yr 19</td>
<td>1,783</td>
<td>1,783</td>
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<tr>
<td><strong>Total Intramural Funds FY 84/85</strong></td>
<td>****</td>
<td>****</td>
<td><strong>$74,543</strong></td>
<td><strong>$74,543</strong></td>
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</table>
### APPENDIX B-1

1-a) UCSB Academic staff engaged in research

<table>
<thead>
<tr>
<th>Faculty Name</th>
<th>Department</th>
<th>Funding Agency</th>
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<tbody>
<tr>
<td>Borjas, G.</td>
<td>Economics</td>
<td>Rockefeller Foundation</td>
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<tr>
<td>Caswell, M</td>
<td>Economics</td>
<td>WRC</td>
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<tr>
<td>Cohen, P.</td>
<td>History</td>
<td>NEH</td>
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<tr>
<td>Cronshaw, J.</td>
<td>Biological Sciences</td>
<td>NSF, USDA, DOE</td>
</tr>
<tr>
<td>Estes, J.</td>
<td>Geography</td>
<td>NSF</td>
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<tr>
<td>Fisher, S.</td>
<td>Sociology</td>
<td>Instructional Development</td>
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<td>Fleming, R.</td>
<td>History</td>
<td>NEH</td>
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<tr>
<td>Frech, T.</td>
<td>Economics</td>
<td>ORDA</td>
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<tr>
<td>Fukui, H.</td>
<td>Political Science</td>
<td>Toyota Foundation</td>
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<tr>
<td>Gallagher, N.</td>
<td>History</td>
<td>NEH</td>
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<tr>
<td>Hollister, CW</td>
<td>History</td>
<td>NEH</td>
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<tr>
<td>Johnson, GW</td>
<td>History</td>
<td>NEH</td>
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<tr>
<td>Kalman, L.</td>
<td>History</td>
<td>GSSCAP</td>
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<tr>
<td>Klatzky, R.</td>
<td>Psychology</td>
<td>Hubner Foundation</td>
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<tr>
<td>Marshall, J.</td>
<td>Economics</td>
<td>UERG</td>
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<td>Mead, WJ</td>
<td>Economics</td>
<td>WRC</td>
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<tr>
<td>Mercer, L.</td>
<td>Economics</td>
<td>WRC</td>
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<tr>
<td>Morgan, WD</td>
<td>Economics</td>
<td>Univ. of Washington</td>
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<tr>
<td>Pellegrino, J.</td>
<td>Psychology</td>
<td>NSF, USGS</td>
</tr>
<tr>
<td>Pequett, DJ</td>
<td>Geography</td>
<td>NSF</td>
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### b. Professional Researchers

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### c. Specialists

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42
APPENDIX B-1 (cont'd)

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APPENDIX B-1 (cont'd)

1b) Participants from other campuses, universities, and industry

a) Faculty

Researchers
Bergstrom, T., Professor of Economics, University of Michigan on Grant No. NSF SES84 09045.
Lucas, G., Professor of Biology, UC Davis, Co-Principal Investigator on Phloem Transport Conference.
Rubinfeld, D., Professor of Law and Economics, UC Berkeley, on Grant No. NSF SES84 09045.

Visiting Researchers
DeGraaf, Lawrence, Department of History, California State University, Fullerton.
Hadenius, Axel, Department of Political Science, University of Upsala, Sweden.
Starr, Raymond, Department of History, San Diego State University.

Seminar Speakers
Bajcsy, R., University of Pennsylvania
Ballard, D.H., University of Rochester
Biederman, I., State University of New York at Buffalo
Brown, C., University of Rochester, New York
Brownstone, D., UC Irvine
Carbonell, JC, Carnegie-Mellon University
Craine, R., UC Berkeley
Crowley, J., Carnegie-Mellon University
Engle, R., UC San Diego
Geweke, J., Duke University
Ghysels, UC Berkeley
Jussa, M., University of Chicago
Langley, UC Irvine
Meese, R., UC Berkeley
Scotchmer, S., Harvard University
Stein, N., University of Chicago
Taylor, JB, Stanford University
Trabasso, T., Department of Psychology
Hastic, R., Northwestern University
Einhorn, H., University of Chicago
McKinnon, University of British Columbia

b1) Graduates
Jacober, S., Data Processor, UC Berkeley, on Grant No. 84-8382, California Department of Health.
MacCaulay, M., Research Assistant, UC Berkeley, on Grant No. 84-8382, California Department of Health.
Roberts, J., Postgraduate Research Economist, University of Michigan, on Grant No. NSF SES 84-09045.
Douglas, JM, Research Assistant, UC Berkeley, on Grant No. NSF SES84-09045.
Church, JR., Research Assistant, UC Berkeley, on Grant No. NSF SES84-09045.
Miller, BA., Research Assistant, UC Berkeley, on Grant No. NSF SES84-09045.
b3) Industry

Farrell, J., Research Scientist in Corporate Engineering, Hewlett-Packard
Fischoff, R., Decision Research Inc.
Pioneer Hi-Bred International, Inc. Johnston, Iowa
Ciba-Geigy Corporation, Greensboro, NC
Pfizer, Inc., Groton, Conn.
Dow Chemical Company, Walnut Creek, CA
BASF Wyendette Corp., Parsippany, NJ
American Cyanamid Co., Wayne, NJ
Shell Development Co., Modesto, CA
E.I. DuPont de Nemours & Co., Wilmington, Del.
Velsicol Chemical Corp., Chicago, Ill.
ICI Americas, Inc., Goldsboro, NC
Rhone-Poulenc Inc., New Brunswick, NJ
Cetus, Middleton, WI
Monsanto Company, St. Louis, MO
Union Carbide Ag. Products Co., Research Triangle Park, NC
Rhom-Haas, Spring House, PA
### APPENDIX B-2 (a)

**a) Employees on University Funds**  

**CORI**  
Votey, H.L., Director  
Shapiro, P., Associate Director  
Smith, T.R., Associate Director  

**Staff:**  
- Hagen, B.R., Administrative Assistant (Career)  
- Corbet, J., Principal Clerk (Career)  
- Dandona, J., Word Processor (Career)  

**Universitywide Energy Research Group**  
Mead, W.J., Research Economist, Principal Investigator  

**Students:**  
- Denning, M., Research Assistant, 1/1/85-6/30/85  

**MEXUS**  
Perissinotto, G., Program Director  

**Students:**  
- Banuelos, M., Research Assistant, 7/1/84-7/31/84  

**Santa Barbara Beautification Program**  
Johnson, M.A., Academic Coordinator  

**Clerical:**  
- Stevenson, D., Lab Assistant, 1/1/85-6/30/85  

**Water Resources Center**  

**W-626**  
Mercer, L., Research Economist, Principal Investigator  
Morgan, W.D., Research Economist, Principal Investigator  

**Students:**  
- Lathrop, R.C., Postgrad. Res. Economist 7/1/84-7/31/84  
- Bigley, J.C., Assistant, 4/1/85-6/30/85  

**W-683**  
Caswell, M., Assist. Res. Economist, Principal Investigator  

**Students:**  
- Lathrop, R.C., Postgrad. Res. Economist 7/1/84-9/30/84  

**Center for the Study of Spatial Cognition and Performance**  
Klatzky, R., Associate Director  
Pellegrino, J., Associate Director  
Smith, T.R., Associate Director  

**Professional:**  
- Doherty, S., Postgrad. Res. Psychologist 9/1/84-6/30/85 (Career)  

**Students:**  
- French, Sara, Assistant  
- Gruberth, C., Assistant  
- Keith, A., Assistant  
- McCloskey, B.P., Research Assistant  

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<td>Word Processor (Career)</td>
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APPENDIX B-2 (a) (cont'd)

a) Employees on University Funds

**Instructional Development**

Professionals:
- Fisher, S., Research Sociologist, Principal Investigator

Students:
- Solomon, D., Assistant, 9/25/84-6/30/85  
  ZFTE: 0.03
- Iacobellis, J.L., Assistant, 5/1/85-6/30/85  
  ZFTE: 0.01
### APPENDIX B-2 (b)

**b) Employees on Non-University Funds**

**Cal Dept Hlth 84-8382**

**Professionals:**
- Clingman, E., Assoc. Specialist, 7/1/84-6/30/85 (Career) 1.00
- Rust, K., Asst. Specialist, 10/1/84-6/30/85 .31

**Students:**
- Engstrom, D., Assistant, 7/1/84-12/31/84 .12
- Tran Viet, T., Assistant, 7/1/84-6/30/85 .11
- MacCaulay, Monica, RA, 7/1/84-6/30/-85 .19
- Jacober, S., Data Processor, 7/1/84-6/30/85 .20
- Hill, M., Data Processor, 7/1/84-6/30/85 .20

**Staff:**
- Abdulla, A., Clerk, 10/25/84-11/15/84 .01
- Marinko, J., Computer Programmer, 7/1/84-6/30/85 (Career) 1.00

**NSF SES84 00799**

- Smith, T., Research Geographer, 8/1/84-8/31/85 .11

**Students:**
- Zhan, C.K., PGR, 9/12/84-12/31/84 .07
- Chow, K., RA, 9/1/84-6/30/85 .28
- Liu, Y., PGR, 9/184-6/30/85 .26
- Pazner, M., PGR, 8/1/84-9/30/84 .16
- Chan, C., RA, 9/1/84-9/15/84 .01
- Gersho, M., Asst IV, 8/1/84-8/31/84 .03
- Menon, S., RA, 1/1/84-6/30/85 .10
- Agarwal, P., RA 6/15/85-6/30/85 .03
- Joglekar, U., RA 6/01/85-6/30/85 .03

**NSF SES84 12860**

**Professionals:**
- Phillips, L., Research Econmist, 7/1/84-8/31/84 .22
- Schniepp, M., Asst. Research Economist, 11/1/84-12/30/84 .03

**NSF SES84 09045**

**Professionals:**
- Rubinfeld, D., Research Economist, 7/24/84-8/19/84 .11
- Bergstrom, T., Visiting Res. Economist, 7/24/84-10/4/84 .33

**Students:**
- Doublet, JM, RA, 9/5/84-6/30/85 .13
- Burnett, R., Asst. III, 2/1/85-1/31/86 .
- Church, JR, RA 6/15/85-6/30/85 .03

**USDJ 841 JCX-0033**

**Professionals:**
- Voley, HL, Research Economist, 6/15/84-09/8/84 .33
- Shapiro, P, Research Economist, 7/06/84-8/31/84 .27
- Schniepp, M, Asst. Research Economist, 10/1/84-12/31/84 .02

**Students:**
- Burnett, RL, Asst III, 10/10/84-6/30/85 .01
APPENDIX B-2 (cont'd)

USDI USGS 2116 2A
Professionals:
  Smith, TR, Research Geographer, 7/1/84-7/31/84 .11
  Estes, JE, Research Geographer
  Peuquet, DJ, Assistant Research Geographer
  Pazner, M., PGR, 7/1/84-9/30/84 .08

Students:
  Chow, K., RA, 7/1/84-9/30/84 .06
  Gersho, M., Asst IV, 7/01/84-8/31/84 .05
  Solumanipau, I, Asst III, 7/1/84-9/30/84 .07
  Liu, Y, RA, 7/1/84-9/30/84 .12
  Chen, C, RA, 7/1/84-9/30/84 .05
  Zhan, CX, PGR, 8/1/84-9/30/84 .07

Hubner Foundation
Professionals:
  Marshall, J., Research Economist, 8/1/84-9/30/84 .15

PHS MCJ 063211-01
Professionals:
  Williams, RL, Assoc. Research Economist, 7/1/84-12/31/84 (Career) .50

Staff:
  Chen, P, Computer Programmer, 7/1/84-12/31/84 (Career) .50

NEH ED1374
Professionals:
  Johnson, GW, Assoc. Research Historian, 8/1/84-12/31/84 .25
  Pursell, C., Research Historian, 9/1/84-9/30/84 .01

Students:
  Graves, G, PGR, 9/1/84-12/31/84 .03
  Manchuelle, E.F, RA, 7/1/84-12/31/84 .03
  Kahn, A., PGR, 7/1/84-12/31/84 .12
  Askew, GV, RA, 7/1/84-11/30/84 .09
  Yew, PR, Asst I, 7/1/84-7/31/84 .01

Staff:
  Stevenson, D., Lab Asst, 7/1/84-12/31/84 .16

UCSB Foundation
Professionals:
  Johnson, MA, Academic Coordinator, 7/1/84-6/30/85 .02

Staff:
  Stevenson, D., Lab Asst, 1/1/85-6/30/85 .05

UCSB Foundation
Professionals:
  Fleming, R, Assoc Specialist, 4/1/85-6/30/85 .16

Students:
  Mack, K., PGR, 4/1/85-6/30/85 .03

NIH HD 16378-02
Professionals:
  Smith, TR, Research Geographer, Principal Investigator

Students:
  Schwab, M., RA, 6/11/84-7/15/84 .08
APPENDIX B-2 (cont'd)

NEH RT 20213
Professional:
  Hollister, CW, Principal Investigator
  Fleming, R., Assoc Specialist, 7/1/84-3/31/85 (Career) .70

Students:
  Mack, K, PGR, 7/1/84-3/31/85 .23
  Zukin, J, Lab Asst, 6/16/84-9/30/84 .02
  Helm, LB, RA, 8/27/84-6/30/85 .02
  Kargaard, BL, Asst II, 9/19/84-6/30/85 .04
  Daly, M, RA, 1/1/85-2/28/85 .06

NIH MCJ 063211-02
Professionals:
  Williams, RL, Assoc Research Economist, 1/1/85-6/30/85 (Career) .50

Staff:
  Chen, P, Computer Programmer, 1/1/85-6/30/85 (Career) .50

Rockefeller Foundation
Professionals:
  Borjas, G., Research Economist, Principal Investigator

Students:
  Huang, WJ, RA, 8/1/84-8/30/84 .01
  Singell, LD, PGR, 1/1/85-5/31/85 .10
  Williams, AP, RA, 4/1/85-5/31/85 .03

University of Washington
Professionals:
  J. Pellegrino, Research Psychologist, Principal Investigator

Students:
  Alderton, DL, RA, 1/1/85-6/30/85 .25
  Abate, RJ, RA, 1/16/85-6/15/85 .25
  McDonald TP, RA, 4/1/85-6/30/85 .12

Toyota Foundation
Professionals:
  Fukui, H, Research Political Scientist, Principal Investigator

Students:
  Park, HS, RA, 9/17/84-3/31/85 .13

Rockefeller Foundation
Professionals:
  Johnson, GW, Research Historian, 8/1/84-8/31/84 .02
  Pursell, C., REsearch Historian, 9/1/84-9/15/84 .02

NSF SES82 09732
Professionals:
  P. Shapiro, Research Economist, Principal Investigator

Students:
  Roberts, J., PGR, 7/1/84-12/31/84 .06
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