The Stanford Center for Chicano Research (SCCR) is an affiliated research unit of the Center for Comparative Studies in Race and Ethnicity (CSRE) and one of the founding member institutions of the Independent Laboratories, Centers, and Institutes (ILC). The SCCR is to facilitate basic and policy-oriented research on the nation’s second largest ethnic minority group, Mexican Americans. As part of the IULPR consortium, the SCCR also serves as one of the sites to support research projects involving faculty and graduate students and is currently supported through various grants from government agencies.

The participating faculty of SCCR include professors from several home departments while working on SIEPR projects. In addition, scholars visiting from other institutions may apply for affiliation with SIEPR. The Center for Research on Economic Development and Policy Reform (Anne O. Krueger, Director) fosters research on the economic problems of developing economies and economies in transition, as well as analyzing the political aspects of economic policy reform and historical episodes of reform. For more information about this program call (650) 725-8730. The Center for Research on Employment and Economic Growth (Tim Bresnahan, Director) is focusing on the relationship between long-term economic growth, the economic success of individuals and families in their jobs and careers, and the role played by higher education and how it can supply workers and technology in the workforce.

Research programs within SIEPR and their directors are Energy, Natural Resources, and the Environment Program (James L. Sweeney); the Finance Program (John B. Shoven); the High Technology Impact Program (Paul A. David); the International Economy Program (Anne O. Krueger); the Program on the Japanese Economy (Masahiko Aoki); the Macroeconomics and Monetary Policy Program (John B. Taylor); the Program in Regulatory Policy (Roger Noll); and the Tax and Budget Policy Program (B. Douglas Bernheim, Michael J. Boskin, and John B. Shoven).

SIEPR does not offer courses for academic credit, admit students, or award degrees. SIEPR is located on the first floor of the Landau Economics Building, 579 Serra Mall, at the corner of Serra and Galvez Streets, telephone (650) 725-1874, or see http://siepr.stanford.edu.
densed matter theory and physics, polymeric and biological materials, crystal growth, and thin film synthesis of complex oxides.

GLAM also provides advanced materials characterization and synthesis facilities for its members as well as for the Stanford materials research community at large. They include electron microprobe analysis (EMPA), scanning electron microscopy (SEM), scanning probe microscopy (SPM), transmission electron microscopy (TEM), x-ray diffraction analysis, and x-ray photoelectron spectroscopy (XPS) for characterization and thin film deposition capabilities for synthesis of materials. These facilities are managed by professional staff who also conduct research and development of new tools and techniques in areas related to advanced materials synthesis and characterization.

The Geballe Laboratory for Advanced Materials is housed in the new Moore Materials Research Building McCullough Building complex.

EDWARD L. GINZTON
LABORATORY

Director: David A. B. Miller

The Ginzton Laboratory houses the research activities of a number of faculty members from the departments of Applied Physics, Electrical Engineering, and Mechanical Engineering. The multidisciplinary foundations of faculty, students, and research provide a dynamic academic environment for a broad spectrum of scientific research including acoustic and optical techniques for semiconductor measurements, fiber optics, laser physics and applications, mesoscopic devices, microelectromechanical devices and systems, optoelectronic devices and systems, photonics, scanning optical microscopy, solid state physics, squeezed light, tunneling and force microscopy, and ultrafast and nonlinear optics.

W. W. HANSEN EXPERIMENTAL
PHYSICS LABORATORY (HEPL)

Director: Robert L. Byer

HEPL is an independent laboratory celebrating over 50 years of fundamental science and engineering research. HEPL faculty and students are engaged in research in accelerator physics, astrophysics, dark matter in the universe, free electron lasers, fundamental tests of relativity in space, gamma ray observations, gravitational wave detection, quantum condensed matter, and space based solar physics studies. Many of the programs involve satellite-based studies in fundamental physics and engineering.

HOOVER INSTITUTION ON WAR,
REVOLUTION AND PEACE

Director: John Raisian

The Hoover Institution, founded in 1919 by Stanford alumnus Herbert Hoover, is a public policy research center where a distinguished group of scholars analyze, study, refine and disseminate ideas designed to strengthen society within the context of three core values: individual freedom, private enterprise, and limited representative government.

Three thematic areas have been established that focus on the interaction of politics and government. Research centers on three broad programs: American Institutions and Economic Performance, which explores ways to enable the U.S. economy and education, legal, and legislative systems to perform better, thereby providing an even higher quality of life, increased economic opportunity, and greater economic freedom for all citizens.

Democracy and Free Markets, which seeks to understand and foster both the development of democratic processes and institutions and the shift from state control of economies to greater reliance on free markets. International Rivalries and Global Cooperation, which examines not only questions of war and peace but all types of rivalries and cooperation (economic, political, religious, and cultural) and focuses on interrelationships between countries.

Hoover multi-year initiative programs within each of these three areas typically address issues relating to balancing government and private initiatives, promoting individual freedom, and strengthening free market economies and democratic institutions.

STANFORD HUMANITIES
CENTER

Director: John Bender
Associate Director: Elizabeth S. Wahl
External Faculty Fellows: Gail Bederman (History, University of Notre Dame), Takashi Fujitani (History, University of California, San Diego), Luis Daniel Leon (Religious Studies, Arizona State University), Mark McGurl English, University of California, Los Angeles), Geoffrey Nunberg (Center for the Study of Language and Information, Stanford University), Leah Price (English, Harvard University), Amy Schmitter (Philosophy, University of New Mexico), Sven Speiker (Germanic, Slavic and Semitic Studies, University of California, Santa Barbara), Sibyl Schwarzenbach (Philosophy, City University of New York)
Rockefeller Fellows in Black Performing Arts: Arthur Knight (American Studies and English, College of William and Mary), Carla Williams (Marion Center for Photographic Arts, College of Santa Fe)
Internal Faculty Fellows: Al Camarillo (History), Gordon Chang (History), Barbara Koenig (Center for Biomedical Ethics, School of Medicine), Sianne Ngai (English), John Perry (Philosophy), Tobias Plebuch (Music), Arnold Rampersad (English)
Geballe Dissertation Graduate Student Fellows: Magdalena Barrera (Modern Thought and Literature), Rozita Dimova (Cultural and Social Anthropology), Si-Yen Fei (History), Donald Lavigne (Classics), Monica Perales (History), Michele Ricci (German Studies), Patricia Roylance (English), Matthew Tiews (Comparative Literature), Timothy Yu (English)

The Stanford Humanities Center promotes research and education in the humanities at Stanford and nationwide. In particular, it stresses work of an interdisciplinary nature, accomplished through the following programs: one-year residential fellowships for Stanford faculty, faculty members from other institutions, and Stanford graduate students; public presentations (such as lectures, conferences, and publications); and a research workshop program sponsored by the Mellon Foundation that brings faculty and graduate students together regularly to advance ongoing research on topics of interdisciplinary interest.

Fellows are selected on the basis of an open competition. They pursue their own research and participate in a weekly seminar at the center throughout the year. Faculty fellows also contribute to the intellectual life of the Stanford community through activities such as giving departmental courses, participating in ongoing research workshops, or organizing conferences. The courses given by fellows in 2002-03 are listed below.

COURSES

COMPARATIVE STUDIES IN RACE AND ETHNICITY
CSRE 201A. The American Paradox: Religions, Cultures, Nation
5 units, Spr (León)

DRAMA

DRAMA 155K. African Americans and the American Cinema
4 units, Win (Knight)
INSTITUTE FOR INTERNATIONAL STUDIES (IIS)

Director: David Holloway
Deputy Director: Coit Blacker

The Institute for International Studies promotes individual and collaborative research on contemporary, policy-relevant issues that are international and interschool in character. Working in partnership with the seven schools at Stanford (Business, Earth Sciences, Education, Engineering, Humanities and Sciences, Law, and Medicine) and with the Hoover Institution, IIS fosters excellence in research and teaching across disciplinary, school, and national boundaries. The priority areas of research are in the fields of international and regional peace and security; economic development and political change in East and Southeast Asia; the global environment challenge; and the delivery of health care in a comparative perspective.

Opportunities for undergraduate research include the Goldman Interschool Honors Program in Environmental Science, Technology, and Policy and the CISAC Interschool Honors Program in International Security.

The institute manages 10 undergraduate and graduate fellowship programs.

The constituent centers and programs within IIS include the Asia/Pacific Research Center, the Bechtel Initiative for Global Growth and Change, the Center for Environmental Science and Policy, the Center for Health Policy, the Center for International Security and Cooperation, the European Forum, and the Stanford Japan Center—Research.

In the areas of public service and outreach, IIS administers the Stanford Program on International and Cross-Cultural Education (SPICE), which develops internationally-oriented curricula for use by public school teachers.

The IIS central office is located at 100 Encina Hall, telephone (650) 723-4581. For more information about particular IIS programs, contact the programs directly (area code 650):

Asia/Pacific Research Center (A/PARC), 723-9741, Andrew Walder, Director
Bechtel Initiative on Global Growth and Change, 723-1737, Coit Blacker, Managing Director
Center for Environmental Science and Policy (CESP), 725-2606, Walter P. Falcon, Pam Matson, Co-Directors
Center for Health Policy (CHP), 723-1020, Alan M. Garber, M.D., Director
Center for International Security and Cooperation (CISAC), 723-9625, Scott Sagan, Christopher Chyba, Co-Directors
European Forum, 723-4716, Timothy Josling, Convenor
Inter-University Center for Japanese Language Studies, 725-1490
Stanford Program on International and Cross-Cultural Education (SPICE), 723-1116
Stanford Japan Center—Research, 011 75-752-7073, extension 40

UNDERGRADUATE PROGRAMS

INTERSCHOOL HONORS PROGRAM IN ENVIRONMENTAL SCIENCE, TECHNOLOGY, AND POLICY

The Center for Environmental Science and Policy (CESP) coordinates a University-wide interschool honors program in environmental science, technology, and policy. Undergraduates planning to participate in the honors program are required to pursue studies in environmental science, technology, and policy, with a concentration in a single discipline. After completion of the prerequisite units, students join small group honors seminars to work with specific faculty members in the environmental field on an honors thesis that incorporates both scientific principles and the policy aspects of selected environmental issues.

Courses in environmental studies appear under the course listings of the schools of Earth Sciences, Engineering, and Humanities and Sciences. Information about and applications to this program may be obtained from CESP, E401 Encina Hall East; telephone (650) 723-5697.

COURSES

IIS 195. Interschool Honors Program in Environmental Science, Technology, and Policy—Students from the schools of Humanities and Sciences, Engineering, and Earth Sciences analyze important problems in a year-long small group seminar. Combines research methods, oral presentations, preparation of an honors thesis by each student, and where relevant, field study.

1-9 units, Aut, Win, Spr (Naylor, Falcon, Freyberg, Goulder, Matson, Schneider)

INTERSCHOOL HONORS PROGRAM IN INTERNATIONAL SECURITY

The Center for International Security and Cooperation (CISAC) coordinates a University-wide interschool honors program in international security. Students selected for the honors program will fulfill individual department course requirements, attend a year-long seminar on international security research, and produce an honors thesis with policy implications. In order to qualify for the program, students must demonstrate sufficient depth and breadth of international security course work. Ideally, applicants to the program should have taken MS&E 190/191, POLISCI 138 (International Security in a Changing World), and POLISCI 134P (The Role of Technology in National Security). POLISCI 134A (Strategy, War, and Politics), and at least one related course such as ECON 150 (Economics and Public Policy), STS 110 (Ethics and Public Policy), SOC 160 (Formal Organizations), SOC 166 (Organizations and Public Policy), and POLISCI 143S (Major Issues in International Conflict Management).

Information about and applications to this program may be obtained from the Center for International Security and Cooperation, E201 Encina Hall East, telephone (650) 723-1625.

COURSES

IIS 199. Interschool Honors Program in International Security—Students from the schools of Humanities and Sciences, Engineering, and Earth Sciences meet in a year-long seminar to discuss, analyze, and conduct research on international security. Combines research methods, policy evaluation, oral presentation, and preparation of an honors thesis by each student.

9-15 units, Aut, Win, Spr (Chyba, Fearon, May, Lederberg, Sagan, Stedman)
CENTER FOR THE STUDY OF
LANGUAGE AND INFORMATION
(CSLI)

Director: Byron Reeves
Executive Director: Keith Devlin

CSLI supports research at the intersection of the social and computing sciences. It is an interdisciplinary endeavor, bringing researchers together from academe and industry in the fields of artificial intelligence, computer science, engineering, linguistics, logic, education, philosophy, and psychology. CSLI’s researchers are united by a common interest in communication and information processing that ties together people and interactive technology.

The technologies of interest at CSLI are at the cutting edge of the information revolution. They include natural language processing, voice user interfaces, ubiquitous computing, collaborative work environments, handheld devices, information appliances, automatic language translation, conversational interfaces, machine learning, intelligent agents, electronic customer relationship management, and distance learning applications.

A primary goal of CSLI is to have a substantial and long-term intellectual impact on the academic and business communities involved with interactive technology. Our industry research partners and sponsors have a broad and facilitated access to ideas, faculty, students, and laboratories. Partners can share in the intellectual property of CSLI, and in the governance committees of the Center that establish research directions and funding priorities. CSLI accelerates knowledge transfer to products and services by involving executives and researchers in Stanford classrooms. Via CSLI, our partners meet Stanford students studying in over 20 different degree programs across campus.

Course work related to the research at CSLI can be found in the “Program in Symbolic Systems” section of this bulletin. CSLI is currently taking a leading role in the launch of Media X, a new campus-wide research network that greatly extends the scope of CSLI’s research. Details of Media X can be found on the Media X web site at http://mediax.stanford.edu/.

CSLI is located at the corner of Campus Drive West and Panama Street, in Ventura Hall and Cordura Hall; telephone (650) 725-3286.

STANFORD INSTITUTE FOR THE
QUANTITATIVE STUDY OF
SOCIETY (SIQSS)

Director: Norman H. Nie

The Stanford Institute for the Quantitative Study of Society (SIQSS) is a multidisciplinary research institute. Founded in 1998, the institute is devoted to creating, fostering, and sponsoring significant empirical social science research about the nature of society and social change.

The central mission of SIQSS is to provide social knowledge for the larger society and to contribute to the development of the empirical social sciences as a primary tool for understanding social reality. SIQSS seeks to fulfill this mission by undertaking large-scale, socially relevant, theoretically important, and methodologically sound social research.

Distinguished scholars participating in SIQSS research programs and activities are drawn from diverse disciplines throughout Stanford University and similar academic institutions. They are attracted to the institute by their mutual interest in data-driven research methods and the use of survey data as a tool for understanding how society works. SIQSS provides institute grantees with research support that includes a technologically advanced research infrastructure, facilities organized specifically to support quantitative research, multiple opportunities for debate and discussion with experts in myriad academic fields, and funding for specific research projects.

SIQSS currently supports quantitative research through the following: Long-Term Institute-Initiated Research Programs; Stanford Faculty Research grants and Student Research Assistantships; SIQSS Visiting Scholars Program; Stanford Faculty Fellows; Interdisciplinary Seminars and the American Empirical Series.

INSTITUTE FOR RESEARCH ON
WOMEN AND GENDER

Acting Director: Barbara C. Gelpi

During the last decade, research on women and gender has had a profound influence on the social and medical sciences, and the humanities. Since its founding, the Institute for Research on Women and Gender’s primary mission is to support scholarship on subjects related to women and gender and to organize educational programs that communicate these findings to a broader public.

Stanford faculty, staff, graduate students, and members of the community work together to stimulate a more informed analysis of issues concerning gender.

Institute projects span a wide range of disciplines, but rest on certain shared premises: that gender is a vital category of analysis for contemporary scholarship and policymaking and that the experiences of women as individuals and as a group can best be understood within their historical, social, and cultural contexts. The institute sponsors interdisciplinary research seminars and conferences that examine gender issues in areas such as aging, art, education, employment, family structures, health care, history, law, literature, and psychology. Many scholarly publications have resulted from these activities.

SOCIAL SCIENCE HISTORY
INSTITUTE (SSHI)

The goal of Social Science History Institute is to re-engineer the manner in which students in social science departments learn about historical institutions and data, and the manner in which students in history and related disciplines are trained in social science methods. Historians and social scientists share many of the same substantive interests (the development of economies, political systems, and social structures, for example), but they approach them with different and complimentary methods and bodies of evidence. There is, however, a great deal of potential for historians and social scientists to draw on the strengths of each other’s methods to improve their own work and to foster increased interaction among the various disciplines that employ history as a laboratory to operationalize social science theories. The Social Science History Institute seeks to realize this potential by transplanting state of the art research methods from classics, economics, history, political science, and sociology across the boundaries of each discipline. Toward this end, SSHI offers a variety of seminars, conferences, and research support for both faculty and graduate students.

STANFORD LINEAR
ACCELERATOR CENTER (SLAC)

Director: Jonathan Dorfan

The Stanford Linear Accelerator Center is devoted to experimental and theoretical research in elementary particle physics and astrophysics, to the development of theory and new techniques in particle accelerators, to research and development in particle detectors, and to the use of the
SPEAR electron storage ring as a source of intense vacuum ultraviolet and x-ray beams for research in biology, chemistry, material science, environmental science, medical science, and physics. The center is on 425 acres of Stanford property west of the main campus and is operated under a contract with the Department of Energy. In a new initiative, Stanford University's Pehong and Adele Chen Particle Astrophysics and Cosmology Institute is being established on the SLAC campus.

SLAC is operated by Stanford as a national facility so that qualified scientists from universities and research centers throughout the country and world, as well as those at Stanford, may participate in the research programs at the center. Stanford graduate students may, with the approval of their departments, carry out research for the Ph.D. degree with members of the SLAC faculty. Graduate students from other universities also participate in the research programs of visiting groups.

Research assistantships are available for qualified students by arrangement with individual faculty members. There are also opportunities for summer employment in the research groups at the center. Students interested in research in the area of high energy physics, particle astrophysics, and accelerators should contact Professor Rafe H. Schindler, the high energy physics graduate student adviser. Research opportunities for students interested in the SPEAR X-ray science program are discussed below under SSRL.

**STANFORD SYNCHROTRON RADIATION LABORATORY (SSRL)**

*Director: Keith O. Hodgson*

SSRL is a national research facility supported by the Department of Energy for the utilization of synchrotron radiation for research in the natural sciences, medicine, and engineering. SSRL is a division of the Stanford Linear Accelerator Center and many of its 20 active faculty hold joint appointments with campus departments.

SSRL has research programs in material sciences as well as accelerator physics and development of advanced sources of synchrotron radiation, especially ultra short pulse, x-ray free electron lasers. The lab is interdisciplinary with students actively pursuing degrees from Stanford campus departments that include Applied Physics, Chemical Engineering, Chemistry, Earth Sciences, Electrical Engineering, Materials Science and Engineering, Physics, and Structural Biology.

Students interested in working at the facility should contact a member of the SSRL faculty, one of the assistant directors, or other members of the Stanford faculty who use SSRL in their research programs. Full information can be found at [http://www-ssrl.slac.stanford.edu](http://www-ssrl.slac.stanford.edu).

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