
Division of Research Administration and Technology

Research Administration and Technology

The Division of Research Administration and Technology is responsible for the institutional approval of all funded grant proposals and contracts relating to sponsored research, instruction, and service agreements; administration of research regulatory and intellectual property services; administration of faculty grants-in-aid, fellowships and other institutional research support programs; administration of university cost-sharing; administration of computing and information services for the Office of Graduate and Research Affairs; coordination of SDSU Foundation/University liaison.

The Associate Vice President for Research is the chief administrator of the Division of Research Administration and Technology which is supervised by the Assistant Vice President for Research. The Associate Vice President for Research is responsible for the development, improvement, and administration of research activities at the University.

The importance of research in graduate instruction is recognized by the faculty, and all graduate programs provide for research on the part of the graduate student. Graduate students involved in thesis or other research at the University must comply with all applicable university research policies, including those related to the use of human and animal subjects in research.

University Research Facilities and Organizations

Among the facilities for research that students may utilize are those provided in organized bureaus, centers and institutes located on the campus; specialized off-campus research facilities and field stations; inter-institutional, consortia and other cooperative research facilities.

Specialized Research Facilities

Mount Laguna Observatory

Paul B. Etzel, Director

San Diego State University operates the Mount Laguna Observatory, which is located 45 road miles east of the campus at an elevation of 6100 feet. The research telescopes at the observatory include three reflectors with apertures of 40, 24 and 16 inches. The 40-inch telescope is operated jointly with the University of Illinois. Auxiliary equipment for the telescopes includes CCD and Near-IR cameras for direct imaging, CCD spectrographs, and photoelectric photometers. A dormitory for observers and a shop-laboratory building complete the main dedicated PCs and/or UNIX workstations for telescope control, data collection, and on-line data reduction. All buildings at the observatory are connected to a fiber-optics local area network which in turn is connected to a high speed (45 Mbps) wireless Internet service. Associated with the observatory is the Awona Harrington Visitor Center, which provides facilities for educational programs and for visiting astronomers. The 21-inch Buller reflecting telescope is employed exclusively for education and public outreach programs.

Social Science Research Laboratory

Douglas S. Coe, Director

The Social Science Research Laboratory (SSRL) was founded in 1974 to support academic computing and social research within the College of Arts and Letters (CAL), the University, and the regional community. SSRL is organized into six units: Instructional Services, Research Services, Systems Support Group, CAL Help Desk, Data Resources, and South Coastal Information Center (SCIC). The department employs 12 full-time staff and over 50 part-time employees classified as lecturers, graduate teaching associates, laboratory consultants, research assistants and data collection specialists.

Instructional Services works closely with faculty to assimilate technological resources into the curriculum and to support academic computing among students and faculty. This is accomplished through four programs: (1) one-unit Social Science courses on the use of statistical, database, spreadsheet, and presentation software and on utilizing academic Internet resources; (2) workshops on the use of selected software applications; (3) class presentations requested by faculty to support computer-related instructional assignments; and (4) individual consultation for students using SSRL's open-access computing classrooms.

Research Services offers a complete range of public opinion polling and survey research services, including sample design, data collection, data reduction, graphic presentation of data, statistical analysis and data archiving. The section maintains computer systems to support faculty research. Undergraduate internships and research assistant positions are available. Typical research clients include units of government, community groups, and research projects conducted by faculty and SDSU administrators.

Data Resources assists faculty and students in searching for and using archived datasets. Principal sources of archived and electronically accessible information include the Inter-University Consortium for Political and Social Research (ICPSR), the Social Science Database Archive (SSDBA), the U.S. Census, Field Institute California Polls, the Roper Center for Public Opinion Research and Lexis/Nexis Academic Universe. Assistance is provided for locating, downloading, installing, and subsetting datasets for instructional or research applications.

Systems Support Group provides technical support for College of Arts and Letters computing systems. Services include managing computer classrooms, network administration, installing operating systems, software applications and hardware, virus recovery, and procurement advice.

CAL Help Desk serves as the initial point of entry and triage for College of Arts and Letters faculty and staff who need assistance with computer related problems. Work order requests for hardware and software problems are entered into an on-line system that schedules technical services. The Help Desk also conducts an extensive individualized software coaching program for individual faculty and staff in their office.

The SSRL is located in Professional Studies and Fine Arts 140.

Field Station Programs

Sedra S. Shapiro, Executive Director

The Field Station Programs provide opportunities for a broad community of students and faculty to explore the natural ecosystems of southern California. In addition, the field stations serve SDSU by functioning as a liaison to broader public community, highlighting SDSU's expertise regionally, nationally, and internationally. The Field Station Programs manage over 9,000 acres of San Diego and Riverside county land for university teaching and research.

SDSU currently has four field stations: the Sky Oaks Field Station, 1,600 acres of high elevation redshank chaparral habitat in the Chihuahu Valley east of Temecula Valley; the Santa Margarita Ecological Reserve (SMER), a 4,334 acre reserve located along the upper Santa Margarita River inland from Camp Pendleton in San Diego and Riverside Counties; Fortuna Mountain, 500 acres close to the SDSU campus located within Mission Trails Regional Park; and the Tijuana River National Estuarine Research Reserve, a 2,513-acre reserve which serves as an auxiliary field station for SDSU.

Providing research and education opportunities for the future requires detailed knowledge of how changes in the environment outside the boundaries of a certain area affect ecosystem dynamics within that area. As habitat continues to be lost to development, areas such as the SDSU field stations will increase in importance as sites for studying natural ecosystems.

The proximity of sensitive habitats to a rapidly urbanizing landscape makes this region a recognized biodiversity "hot spot." San Diego State University has an extremely dynamic group of scientists (faculty, researchers, and students) working to understand these unique and threatened ecosystems. Research ranges from the global scale examining global warming and the impacts of increased carbon dioxide on native vegetation to the meso- and micro-scales of chaparral ecosystems dynamics, as well as plant, vertebrate, insect, and fungal diversity. Researchers at SDSU are also increasingly using sophisticated computer modeling and molecular techniques for analyzing environmental change. Natural sciences are the core users of the SDSU field stations. Biology, geography, geological sciences, hydrogeology, and other field sciences are consistent areas of study. There are growing opportunities for interdisciplinary work as well as for nontraditional study in the fields ranging from public health, civil and environmental engineering, recreation, business, and art, to education.

Persons interested in conducting research, instructional use, or access to the SDSU field stations should contact the academic programs of the SDSU Field Station Programs at (619) 594-0580. Inquiries can also be made through the SDSU Field Station Web site at www.sci.sdsu.edu/BFS/

Facility for Applied Manufacturing Enterprise (FAME)

James S. Burns, Director

The centerpiece of San Diego State University's manufacturing endeavors is the Facility for Applied Manufacturing Enterprise. FAME was planned as an interdisciplinary center-of-excellence dedicated to science and technology in the area of manufacturing. Its mission is to provide students with a complete and immersive product development environment in which to augment their job experiences with next-century tools and strategies. This facility evolved from the Computer Integrated Manufacturing (CIM) center founded in 1988. Since then, it has grown considerably in physical size and scope. FAME resources include 3000 square feet of dedicated floor space in the Engineering and Engineering Laboratory Buildings and another 2000 square feet for student projects. Manufacturing-related equipment includes plastic injection, compression, extrusion, pultrusion, resin transfer molding and vacuum forming equipment, a composite repair station, ultrasonic scanning equipment, platen presses, mechanical testing machines, ovens, CNC lathe and mill, automated parts bin, and four multi-axis robots. A 3" diameter by 15" long, high-pressure and temperature autoclave facility is currently under construction.

Donald I. Eidemiller Weather Station

Edward Aguado, Director

The Donald I. Eidemiller Weather Station serves as a teaching and research resource. The station also archives monthly and annual data published by the National Climatic Data Center and has been observing and recording local weather information for more than 40 years.

Microchemical Core Facility

Long T. Wen, Director

The Microchemical Core Facility (MCF) is a component of the California State University Program for Education and Research in Biotechnology (CSUPERB). The MCF is a full-service, state-of-the-art facility that provides DNA synthesis, sequencing, and purification services for cell and molecular biologists associated with any of the 22 CSU campuses. In addition, the MCF provides for CSU faculty access to the most recent advances in computer-assisted analyses of molecular structure. Located in the Biology Department at SDSU, the MCF provides state-of-the-art molecular analyses and characterization to CSU scientists for the lowest possible cost, as well as fostering the training of university faculty at all levels in the most recent techniques available in the molecular life sciences. Funding for the establishment and maintenance of the SDSU MCF is derived from the National Science Foundation with matching funds provided by the State of California. Call (619) 594-1669 for more information.

Communications Clinic for Speech, Language, Hearing Disorders and Deafness

Administered by the Department of Communicative Disorders, the Clinic provides assessment and remediation services for SDSU students, staff, faculty, and the community. Comprehensive diagnostic and treatment programs are available for children and adults, who may present such communicative difficulties as delayed speech/language development, voice, fluency or articulation disorders, aphasia, cleft palate, cerebral palsy, loss of communication function, augmentative communication needs, hearing loss and deafness. Also provided are services for bilingual/multicultural clients and speakers of English as a second language. Audiologic services provided by the Clinic include hearing assessment, hearing aid evaluation and selection, assistive listening device evaluations, earmolds, ear protectors, hearing conservation and speech reading/aural rehabilitation therapy. The clinic is located at 6330 Alvarado Court, Suite 100, San Diego, CA 92120-4917, (619) 594-6477.

National and Regional Research Resource Centers

Latin American Studies

The Center for Latin American Studies seeks to encourage teaching and research related to Latin America. It has primary responsibility for the administration of the Latin American undergraduate and graduate degrees. It also participates in joint degree programs in International Business, Business Administration, and Public Health. Since 1976, the Center for Latin American Studies has been designated a National Resource Center for Latin American Studies (one of only 21 in the nation) by the United States Department of Education and funded through a Title VI grant, in consortium with the Center for Iberian and Latin American Studies at the University of California, San Diego. CLAS, along with CIBER and LARC, is one of three Title VI funded centers on the San Diego State University campus. In conjunction with this award, the Center administers programs that are interdisciplinary, drawing on the expertise of an outstanding Latin Americanist faculty from the following departments: Anthropology; Art, Design, and Art History; English and Comparative Literature; Economics; Geography; History; Political Science; Public Administration and Urban Studies; Sociology; Spanish and Portuguese Languages and Literatures; Women's Studies; and the College of Business Administration. In addition, the Center is involved with the development of innovative methods of instruction in Spanish, Portuguese, and Mixtec; the provision of informative and in-service training programs for elementary and secondary school teachers; and the provision of services for the general public through the sponsorship of conferences, workshops, lectures, and films. The Center also assists in the development of the University library's Latin American holdings. The Center has cooperative agreements for research, faculty, and student exchanges with several Latin American universities, particularly in Mexico, Chile, and Costa Rica.

National Language Resource Center/Language Acquisition Resource Center (LARC)

Mary Ann Lyman-Hager and Paul J. Strand, Co-Directors
Wayne Stromberg, Associate Director for Operations and
John Vitaglione, Associate Director for Multimedia
Maria Ortega, Program Coordinator

SDSU created the Language Acquisition Resource Center (LARC) in 1989 to improve its capacity to teach foreign languages more effectively. In 1990, LARC at SDSU became one of the first three national Language Resource Centers (LRCs), with funding from the U.S. Department of Education to conduct research in second language performance testing, cross-cultural competence, and technology for language learning. Currently the Department of Education funds nine LRC national centers located at campuses around the country. SDSU's LARC has one of the nation's finest multimedia collections, more than 80 high-end multimedia computers, digitizing and desktop video conferencing capabilities, a research library, faculty offices, several smart classrooms, and faculty offices. The laboratories serve foreign language students and faculty in the Departments of European Studies, Linguistics and Oriental Languages, and Spanish and Portuguese Languages and Literatures.

LARC is enhancing its basic infrastructure and increasing Internet capabilities of its current space. New models of distributed and/or distance learning reflect the changing demographics of SDSU students. The new models will require new curricula and outreach capabilities to match the demographics and learning preferences of these students. In addition to a solid infrastructure equipped to handle new models of distributed learning, LARC has a dedicated professional language faculty and staff to create and manage the proposed projects and bring them to completion. A major focus of the national center is on wide dissemination of authentic and pedagogical materials created by LARC and by collaborators worldwide.

Center for International Business Education and Research (CIBER)

Steven J. Loughrin-Sacco and Kenneth E. Marino,
Co-Directors
David P. Earwicker, Managing Director,
Tamara Dunn, Assistant Director

The Center for International Business Education and Research (CIBER), one of 27 such centers of excellence in the United States, was established in 1989 under the auspices of a grant from the U.S. Department of Education and is administered by the Colleges of Arts and Letters and Business Administration.

CIBER promotes (1) interdisciplinary programs that incorporate foreign language and international studies training into business, finance, management, communications systems, and other professional curricula; (2) interdisciplinary programs which provide business, finance, management, communications systems, and other professional training for foreign language and international studies faculty and advanced degree candidates; (3) evening or summer programs, such as intensive language programs, available to members of the business community and other professionals, which are designed to develop or enhance their international skills, awareness, and expertise; (4) collaborative programs, activities, or research involving other institutions of higher education, local educational agencies, professional associations, businesses, firms or combinations thereof, to promote the development of international skills, awareness, and expertise among current and prospective members of the business community and other professionals; (5) research designed to strengthen and improve the international aspects of business and professional education and to promote integrated curricula; and (6) research designed to promote the international competitiveness of American businesses and firms, including those not currently active in international trade.

CIBER is located in Business Administration 428; (619) 594-3075; FAX (619) 594-7738; ciber@mail.sdsu.edu; www.sdsu.edu/ciber.

Consortia and Other Cooperative Research Facilities

The Center for Bio/Pharmaceutical and Biodevice Development

A. Stephen Dahms, Director;
Robert Wang, Associate Director

The Center is a new interdisciplinary organization focusing on the research, development, manufacturing, production, processing, and marketing of biotechnological, biopharmaceutical, pharmaceutical, in vitro diagnostic and medical device products. As an administrative, instructional, and research entity, it incorporates faculty and programs from the Colleges of Sciences, Engineering, Business Administration, Health and Human Services, Professional Studies and Fine Arts, Education, and Arts and Letters. The Center addresses research and workforce needs of companies in their transition from research and development into manufacturing and production, with an additional focus on the overarching legal, ethical, and regulatory elements that both guide and restrict the industry. The Center has a management structure similar to a bioscience company, with section directors for regulatory affairs, biopharmaceutical marketing, bioprocessing/manufacturing, QA/QC, etc., each with research and capstone professional graduate degrees overlaying a cluster of specific certificate programs, and degree emphases, as well as continuing education programs for existing corporate employees. Activities under the Center also include regional economic development, workforce development, the acquisition of new training and research facilities, in some cases, fermentation, cell culture, small molecule synthetic, and pilot plant scale facilities, as well as biotechnology business incubation. The Center employs long-distance telecommunications to corporate, government, and other university sites within California, between its academic partners, and with several international partners. The Center interfaces intensively with the California State University Program for Education and Research in Biotechnology (CSUPERB) providing novel capstone training experiences for CSU biotechnology students.

CSU Program for Education and Research in Biotechnology (CSUPERB)

A. Stephen Dahms, Executive Director

The California State University Program for Education and Research in Biotechnology (CSUPERB) is based at San Diego State University. It exists to provide a coordinated and amplified development of biotechnology research and education within the university system; to foster competitiveness both on the state and national levels; to facilitate training of a sufficient number of biotechnology technicians and scientists; to catalyze technology transfer and enhance intellectual property protection; and to facilitate the acquisition and long-term maintenance of state-of-the-art biotechnology resource facilities across the university, such as the Microchemical Core Facility and the Macromolecular Structural Analysis Resource Center, both localized at SDSU. It facilitates interdisciplinary cooperative activities between the Colleges of Sciences and Engineering, and key departments on all campuses, as well as between faculty and from a number of allied academic and research units such as bioengineering, agricultural biotechnology, environmental and natural resources, molecular ecology, and marine biotechnology. It also operates a grants program of over \$1 million annually for programmatic development and for joint corporate research ventures with industry. It also serves as the official liaison between the CSU and industry, government, the Congressional Biotechnology Caucus, and the public arena in biotechnological matters. CSUPERB operates through an Executive Director, two Associate Directors, a Director of Operations and Workforce Development, a Strategic Planning Council composed of five corporate CEO's, five CSU Deans of Sciences, and ten faculty from the system. CSUPERB is overseen by the Presidents' Commission composed of five CSU campus Presidents from San Diego State University, San Jose State University, Cal Poly Pomona, CSU Los

Angeles, and Cal Poly San Luis Obispo. Faculty input into the organization and its multiple activities is through a 55 member Biotechnology Faculty Consensus Group

Southwest Center for Environmental Research and Policy (SCERP)

D. Rick Van Schoik, Director and Paul Ganster, Chair of Management Committee

SCERP was established and funded by Congress in 1990 to address environmental issues of the U.S.-Mexico border region. The Center includes five U.S. and four Mexican higher education institutions. The five American universities are Arizona State, New Mexico State, SDSU, University of Texas at El Paso, and University of Utah. The research implemented by SCERP includes environmental areas in air quality, water quality and use, hazardous materials, and waste management. SCERP also sponsors the Border Institute, an annual think tank-style forum of key border decision-makers.

Organized Research Centers and Institutes

Africana Center for Cultural Literacy and Research

JoAnne Cornwell and Francis Nesbitt, Co-Directors

The Africana Center for Cultural Literacy and Research provides independent and collaborative projects (across a broad spectrum of academic disciplines) that create professional development opportunities with an Africana cultural focus for students, faculty and staff; research opportunities for students and faculty; and culturally enhanced teaching opportunities for SDSU faculty. The Center's programs also provide venues for community service which focus on Africana cultural groups.

The Africana Center is housed in the Department of Africana Studies and can be reached by calling the department office at (619) 594-6531.

University Center on Aging

E. Percil Stanford, Director

The University Center on Aging offers the B.A. and M.S. in Gerontology. The Center is involved with such activities as supporting interdisciplinary educational and curriculum efforts; undertaking research, demonstration and evaluation activities; providing technical assistance and agency consultation for the community; coordinating workshops and seminars; and providing opportunities for student involvement in aging activities. The Center is also responsible for the coordination of a certificate program in conjunction with the College of Extended Studies and administers an undergraduate major in gerontology. The Center serves as a central point for the development and dissemination of data related to diversity and aging and long-term care and is administratively responsible for the National Resource Center on Aging and Injury.

The Edwin C. Allison Center for the Study of Paleontological and Geological Sciences

Richard H. Miller, Curator

The Allison Center has supported research in paleontology, geology, and related sciences since 1972. The Center maintains a research library containing journals, reprints, textbooks, maps, and copies of master's theses and senior theses completed in the Geological Sciences. The library is open to faculty and students. In addition, the Center houses a collection of fossil and recent vertebrates, invertebrates, and plants. Research space is available for students, faculty, and visiting scholars.

Center for Behavioral and Community Health Studies

John P. Elder, Director

The Center for Behavioral and Community Health Studies is housed at 9245 SkyPark Court, Suite 231, San Diego, CA 92113. The Center, formerly known as The Center for Behavioral Medicine, was established in 1982 for the purpose of promoting research and academic programs relevant to the applications of behavioral science principles to medicine and health care. Administratively, the Center has three co-directors who report to the deans of the College of Sciences and the College of Health and Human Services. The interdisciplinary center encourages participation from all colleges and departments of the University. Currently, active investigators come from the Departments of Exercise and Nutritional Sciences, Psychology, and the Graduate School of Public Health. Current Center projects involve collaboration between scientists and physicians from a variety of specialties as well as a variety of other institutions, including the County of San Diego and University of California, San Diego. Funding for the Center comes from federal and private foundation grants including several National Institutes of Health agencies. Current sponsors include the American Heart Association, Department of Defense, National Cancer Institute, National Heart, Lung and Blood Institute, the State of California Department of Health Services, and the University of California Tobacco Related Disease Research Program.

The Center provides important research experience to students who intend to pursue related careers and offers opportunities for project staff and graduate students to participate in community interventions.

Center for Behavioral Epidemiology and Community Health

Melbourne F. Hovell, Director

Administered through the Graduate School of Public Health, the Center was established for the purpose of promoting research to study behavior that prevents or contributes to the cause of disease and injury. Both non-intervention and empirical studies are conducted to determine the factors most responsible for lifestyle practices related to morbidity and mortality. The Center focuses on health related behavior – either protective practices or risk practices – and has been concerned with a wide range of public health and medical concerns such as: tobacco prevention in youth; environmental tobacco exposure reduction in children; STDs, AIDS, pregnancy prevention in adolescents, and prevention in women and divorced adults; violence and anger prevention. C-BEACH conducts scientific investigations into the following broad areas: behavioral epidemiology, measurement, and interventions (clinical and community-based).

Center for Behavioral Teratology

Edward P. Riley, Director

Teratology is the study of birth defects. The faculty and students at the Center for Behavioral Teratology (CBT) are interested in how prenatal exposure to various drugs influences both brain and behavioral development. The CBT is truly an interdisciplinary research organization, with a broad range of basic and clinical research interests. While the primary purpose of the CBT is to promote research in teratology, personnel in the Center also act as a resource to the University and the community. The staff provides in-service talks at local hospitals, schools, and drug treatment facilities, as well as lectures to various classes at the University. The CBT staff has active collaborations with faculty from UCSD, the VA Hospital, Children's Hospital, and the Scripps Research Institute. Faculty in the Center have grants from the National Institutes of Health, March of Dimes, Tobacco-Related Disease Research Program, and the State of California.

Institute for Built Environment and Comparative Urban Research (BECUR)

Lawrence A. Herzog, Director

The purpose of the Institute for Built Environment and Comparative Urban Research (BECUR) is to: (1) study the impact of culture on the design and shape of the urban built environment; and (2) understand how cities in different cultural settings are being transformed by global processes. BECUR provides a forum for research and dialogue among SDSU faculty and students on the cross-cultural nature of urban space and urban place. The Institute is administered by the College of Professional Studies and Fine Arts. Among its activities, the Institute promotes public lectures and conferences, research projects, and networking among urbanists, social science, planning, design and architectural scholars both in the region, as well as in other parts of the world. The Institute is located in Professional Studies and Fine Arts 177, (619) 594-6964.

The June Burnett Institute for Children, Youth, and Families

**6310 Alvarado Court, San Diego, CA 92120, (619) 594-4756,
FAX (619) 287-6756**

The June Burnett Institute was created in 1985 at the San Diego State University Foundation from a \$1.5 million bequest from the estate of June Estelle Burnett. The mission of the Institute is to develop innovative programs for children, youth, and families that blend service, training, and research. It is dedicated to developing the potential of all children, youth, and parents in a manner that is sensitive and responsive to cultural, social, and economic differences and needs. The Institute fosters cooperation and collaboration through interdisciplinary/interprofessional approaches that promote the well-being of children, youth, and families through prevention, intervention, and volunteer-based services. An advisory board composed of SDSU faculty and community members directs the activities of the Institute in cooperation with its director and a staff of approximately 100. The Institute has two major program divisions that include the San Diego Choice Program and the California PARENT Center.

San Diego Choice Program – The Institute, in cooperation with the San Diego Juvenile Court and the County of San Diego, coordinates the San Diego Choice Program which serves approximately 700 court-involved delinquent youth annually that are referred by the County Probation Departments and the County Health and Human Services Agency. The San Diego Choice Program is modeled after the Choice Program developed by the Shriver Center at the University of Maryland. The program currently maintains offices that serve all areas of San Diego County emphasizing intensive case contact services and services for children re-entering the foster care system.

The California PARENT Center serves as a hub for strong outreach to parents through contacts with parent groups, parent centers, parent advocates, and educators across the state. The Center's "Cyber Center" provides easily accessible resources through an extensive Web site at <http://parent.sdsu.edu> and toll free Parent Warm Line (619) 594-3349; in other areas of California (877) 9PARENT. Staffed daily from Noon to 2:00 p.m., the Warm Line makes available a group of multi-lingual parents who can provide specific "how-to's" for parents or educators who wish to build effective parent programs at the pre-school, elementary, middle school or high school levels. The Center currently combines the efforts of skilled service staff, community-based agencies, and volunteers to promote three "best practice" parent training models: Families and Schools Together (FAST), the Home/School Partnership, and the HIPPI program (Home Instruction for Parents of Preschool Youngsters). A statewide training program for parent advocates is being developed through an agreement with three collaborative, direct service parent programs. It is being expanded to new sites through subcontracts with the Home's Youth Foundation, Chicano Federation, the Parent Teacher Association, Union of Pan Asian Communities, San Diego Urban League, Parent Institute for Quality Education, San Diego Unified School District, the San Diego Unified PTA council, and the Alliance for Children and Families.

The Burnett Institute Faculty Fellows Program, in conjunction with the Provost and each fellow's college dean, sponsors between three and six faculty members annually who wish to assist the Institute strengthen service, training or evaluation efforts at the University and in the community.

California Center for Childhood Injury Prevention

David W. Lawrence, Director

Administered through the Graduate School of Public Health, the California Center for Childhood Injury Prevention serves as a resource center on child and adolescent injury prevention strategies. The primary mission of the Center is to reduce the frequency, severity and cost of child and adolescent injuries by assisting public health agencies and programs to incorporate injury prevention strategies into their ongoing efforts to improve the health and safety of young people. Center staff can provide data on child and adolescent injuries; technical assistance with the development, implementation and evaluation of child and adolescent injury prevention programs; and linkages with agencies, researchers, advocates and injury professionals as well as access to a variety of educational materials. The Center also houses one of the four national sites of the Children's Safety Network.

China Studies Institute

William G. Tong, Director

The China Studies Institute coordinates and supports on-campus teaching and research related to China. The Institute develops and fosters faculty and student exchange programs with Chinese universities and institutions of higher learning. Various cultural programs on China and activities on campus and in the community promote cultural awareness and understanding. The development of Chinese publications, audio-visual materials, periodicals, newspapers, and other resources on campus fosters relationships between San Diego State University and the Chinese community, as well as nurtures friendship between the Chinese and American peoples.

Coastal and Marine Institute

Richard M. Gersberg, Director

The Coastal and Marine Institute provides a focus for oceanography and marine studies at SDSU. The Institute assists departments within the University in the development of instructional, research, and public service aspects of coastal and ocean-oriented programs and provides special supporting services including advising students, assistance to faculty and students in research, preparation of manuscripts, operation of the SDSU Marine Laboratories and boats at Mission Bay, and liaison with other institutions and the community. The Institute is operated as a special unit of the College of Sciences and is administered by a director and an advisory council consisting of faculty members elected from participating departments. Additional information about marine studies is available from the Coastal and Marine Institute office, or from the Office of the Dean of the College of Sciences.

Communications Systems and Signal Processing Institute

Madhu Gupta, Director

This Institute is engaged in educational, research, and service activities in communication systems with an emphasis on radio frequency and digital signal processing aspects. Faculty, students, and industrial partners collaborate to advance the state-of-the-art in the institute's core areas of expertise, such as R-F circuitry, modems, receivers, transmitters, synthesizers, A-D and D-A converters, digital signal processing algorithms and hardware, antenna, and communication networks. Specific activities include research and design projects; development of products, software, algorithms, and techniques; and training programs including short courses.

Center for Community Economic Development (CCED)

Harold K. Brown, Associate Dean and Director

Community economic development (CED) is an innovative and practical approach to helping communities and neighborhoods prosper through the use of business, economic, and leadership skills. CED is a systematic and planned intervention that is intended to promote economic self-reliance for communities and their residents.

The Center for Community Economic Development (CCED) was established in 2000 and culminated the offering of a certificate program in community economic development that began in 1995. The CED program is one of a few in the United States that offers a comprehensive and practical curriculum in community economic development.

The Center offers a non credit certificate program in community economic development which consists of ten business courses: Introduction to CED, Accounting, Consensus Community Organizing, Financial Management, Legal Structures, Marketing Strategies, Organizational Management, Alternative Sources of Capital, Real Estate and Land Development, and Small Business Development; a series of class related seminars; and a community project. Classes are held on alternate Saturdays from 10 a.m. to 4 p.m. The Center also offers consulting and technical assistance to educational institutions, businesses, local government, and community and civic organizations, in addition to a variety of seminars and workshops on topics related to community development and to community economic development.

The mission of the certificate program is to produce technically competent and community minded economic development professionals, and to produce graduates committed to the principle that residents of neighborhoods and communities should play a major role in the development of their areas.

Center for Computer Simulation

William A. Root, Director

The Center for Computer Simulation pursues research opportunities involving the creation of complex simulations, particularly those addressing challenges in the public sector. The diversity of fields in which computer simulation now plays a role allows the Center to provide research opportunities for undergraduate and graduate students in a wide variety of academic majors.

The Center supports an extensive collection of simulation software under site license, and maintains cooperative relationships with prominent public and private sector simulation software developers to ensure that the Center's capabilities keep pace with the state-of-the-art.

Currently the Center includes members from the faculties of Applied Mathematics, Computer Science, Engineering, and Statistics. The Center is administered by a director appointed by the Dean of the College of Sciences, and resides in facilities provided by the Department of Mathematics and Statistics. For information, call the Center for Computer Simulation office at (619) 594-6837.

Consensus Organizing Center

Michael Eichler, Coordinator

The Consensus Organizing Center is administered through the School of Social Work. The Center's mission is to educate and train a new generation of social workers in community building techniques in order to make them effective catalysts for civic engagement and social change. Through school based programs and community interventions, the Center has created an environment for the teaching of consensus organizing skills to social workers, high school students, and community leaders. Specific activities include developing a fellowship program for high school students and provide employment opportunities for undergraduate and graduate students. The Web site for the Center is www-rohan.sdsu.edu/~consensu. The Center telephone number is (619) 594-2381.

Concrete Research Institute

M. Ziad Bayasi, Director

The Concrete Research Institute supports educational needs in the civil engineering curriculum and concrete research performed for sponsors from industry and governments. The Institute encompasses a wide range of topics. The emphasis is currently on concrete materials and structures. Civil and environmental engineering faculty members are involved with finding optimum design solutions in bridges, seismic resistant structures, residential buildings, and retaining walls.

Corporate Governance Institute (CGI)

Mark C. Butler and Craig P. Dunn, Co-Directors

The Corporate Governance Institute (CGI) is an education and research center dedicated to the study and application of corporate governance principles. Founded in 1998 as a joint venture between the College of Business Administration (CBA) and the International Forum for Corporate Directors (IFCD), the mission of the CGI is to enhance the skills of organizational directors and senior executives in the private, public, and not-for-profit sectors through creating and delivering initiatives related to a) Director and executive development, b) research, and c) curriculum innovation. CGI programs focus on identifying "best practices" in all aspects of corporate governance. All CGI initiatives are guided by the principle that corporate leaders hold a primary duty to insure the financial viability of the organizations they manage, while at the same time taking adequate account of the emerging reality that all institutions, including corporations, are imbedded within communities that justifiably deserve their attention.

The CGI conference room is located in Student Services 3375-A. CGI staff can be reached by telephone at (619) 594-0823, or by e-mail at corporate.governance@sdsu.edu. The CGI Web site can be accessed at www.sdsu.edu/corporate.governance.

Center for Counseling and School Psychology

Valerie Cook-Morales, Director

The Center for Counseling and School Psychology is a unit within the College of Education designed to provide support for activities such as (1) securing and administering grants and other support for research and development in counseling and school psychology, (2) encouraging cooperation with faculty members from other relevant disciplines such as anthropology, economics, psychology, social work, sociology, and Counseling and Psychological Services, and (3) conducting programs or rendering services designed to promote counseling and school psychology at San Diego State University. The Center is administered by the Department of Counseling and School Psychology; fiscal matters are coordinated through the San Diego State University Foundation.

Institute of Druze Studies

Samy S. Swayd, Director

The Institute of Druze Studies (IDS) is an academic non-profit organization dedicated to research and discourse on the Druzes and related topics. The Druzes are a Middle Eastern minority group that live predominantly in the mountainous regions of today's Lebanon, Syria, Jordan, Israel, and with smaller numbers elsewhere around the world. More than 25,000 Druzes live in the United States with California as the main Center of the American Druze Society (ADS). The Druze sect began in Cairo and has survived for almost one thousand years.

The IDS aims to 1) provide information on Druze history, society, and faith; 2) encourage research and studies on historical and contemporary Druze communities; and 3) promote academic discourse about the Druzes and other immigrant religious communities. The IDS pursues these objectives through an international annual multidisciplinary conference, a publication series, an academic journal, and a newsletter. The IDS participates in professional conferences and provides guest lectures to interested organizations.

For more information, call the IDS office at (619) 594-1880, the Department of Religious Studies at (619) 594-5185, FAX (619) 594-1004, or www.druzestudies.org.

Energy Engineering Institute

Asfaw Beyene, Director

The Energy Engineering Institute has supported educational and research activities in energy related areas since 1985. Undergraduate and graduate students and faculty from the mechanical engineering and electrical and computer engineering departments are involved in obtaining solutions to problems presented by industrial sponsors. Institute research projects cover a wide range of areas from optimizing energy resources to international energy studies.

Center for Energy Studies

Alan R. Sweedler, Director

The San Diego State University Center for Energy Studies (CES) facilitates, promotes and supports research and academic programs relating to energy, with particular emphasis on energy matters of concern to the San Diego and local southwest region including the international border with Mexico. The Center encourages interdisciplinary research and instructional programs in the broad areas of energy modeling, technology assessment of energy systems, local energy policy planning and data collection relating to energy usage in the San Diego region. SDSU offers through the Center an interdisciplinary minor in energy studies. Completion of the minor will give the student a broad understanding of the technical, economic, social and political aspects of energy issues. For more information call the Center at (619) 594-6240 or (619) 594-6155. The Center works closely with local and state agencies concerned with energy policy and planning, and serves as a community resource in matters concerning local energy issues and the impact of energy use of the environment.

Entrepreneurial Management Center (EMC)

**Sanford B. Ehrlich, QUALCOMM Executive Director,
Richard D. Brooks, Director, Community Relations,
Alex F. DeNoble, Director of Academic Programs**

The Entrepreneurial Management Center (EMC) serves the emerging growth sector of the regional business community. The growth, development, and success of new business ventures is essential to the future of the San Diego region. The mission of the EMC is to assist this sector of the economy through educational programs focused on the application of the underlying principles and perspectives of entrepreneurship offered to students, organizations, and individuals.

The range of entrepreneurial programs offered includes: (1) support for the M.S. and M.B.A. programs specialization in entrepreneurship; (2) individual knowledge and skill development; and (3) organizational consulting. The entrepreneurial topics presented include the outcomes of the entrepreneurial process: the creation of wealth, new enterprises, innovation, organizational change, increased firm value, and organizational growth. The EMC focuses program development on both the entrepreneur and the entrepreneurial process which results in a variety of outcomes essential to economic development.

The EMC sponsors an annual international student business plan competition that provides students with an opportunity to present their business ideas to a distinguished panel of judges. The competition currently involves students from colleges around the world. The EMC is located in Gateway 1502, (619) 594-2781, FAX (619) 594-8879; www.sdsu.edu/emc.

Center for European Studies

James L. Schorr, Director

The Center for European Studies, through its associated faculty and students, is committed to the multidisciplinary study of Europe and its dynamic and evolving calculus of nations, cultures, languages, and perspectives. The Center is a vehicle for fostering appreciation of Europe, the societies and cultures within its geographical boundaries, and the ideas that make up various European realities.

The Center will develop grant funded programs (e.g. colloquia, symposia, etc.), collaborative teaching and research opportunities, faculty exchanges, internship leads for partner programs, workshops, and related activities.

For more information regarding the Center for European Studies, contact James L. Schorr, Chair, Department of European Studies, (619) 594-5111 or 594-5671; jschorr@mail.sdsu.edu.

Heart Institute

Christopher C. Glembotski, Director

The Heart Institute is sponsored by the College of Health and Human Services and the College of Sciences. The goals of the Institute are to enhance basic and clinical research in the cardiovascular sciences, to foster undergraduate and graduate education in cardiovascular physiology and medicine, and to provide a community outreach service focused at heightening the awareness of cardiovascular disease and its prevention in the San Diego region surrounding SDSU. The Institute is comprised of faculty members representing four different colleges at SDSU, as well as physicians and scientists from local hospitals and clinical research centers. Importantly, the Institute also sponsors SDSU undergraduate and graduate student memberships, which strengthens the involvement of students in all aspects of Heart Institute activities. The unusual blend of talent and expertise that comprise the Institute membership results in an interdisciplinary approach to cardiovascular research, education and community outreach that is unique to the Heart Institute. The Institute sponsors special seminars, on- and off campus, which cover a wide range of topics in the field, and provides funding for the support of graduate students who are involved in cardiovascular research at SDSU. Areas of focus for the Institute include studies of the molecular basis of cardiovascular disease, establishment of unique approaches for the early detection and prevention of cardiovascular disease, and the promotion of cardiovascular health in San Diego area K-12 schools. An important feature of these efforts that distinguishes the Heart Institute is the central role that SDSU students play in each of these areas. Funding for Heart Institute activities comes from a variety of sources, including the National Institutes of Health, the American Heart Association, the Muscular Dystrophy Association, the Rees-Stealy Research Foundation, and several San Diego-based biotechnology companies. For more information contact the Heart Institute office at (619) 594-5504.

Center for Hospitality and Tourism Management

Carl Winston, Director

The Center for Hospitality and Tourism Management represents a joint venture equally supported by the Colleges of Business Administration and Professional Studies and Fine Arts. The Center is an education and research center dedicated to the study and application of business and professional principles in the broad field of hospitality and tourism. The mission of the Center is to enhance the skills and knowledge of professionals and students in the field of hospitality and tourism management through the creation and delivery of initiatives in executive development, research, and curriculum innovation.

Programs associated with the Center focus on identifying "best practices" in all aspects of hospitality and tourism such as hotel operations, restaurant operations, global tourism, and attractions, events, and convention management. The Center's mission is pursued in multiple venues, including private, public, and not-for-profit agencies. Our vision is to become the leading center for hospitality and tourism management education in Southern California and a prominent national and international resource for questions related to education in hospitality and tourism. The Center actively seeks to support SDSU, the College of Business Administration, the College of Professional Studies and Fine Arts, and members of the local and national community in matters related to hospitality and tourism. The Center is located in PSFA 430, (619) 594-4964; www.sdsu.edu/business/htm.

International Institute for Health and Human Services Development

Dolores A. Wozniak, Director

Administered through the Office of the Dean of the College of Health and Human Services, the purpose of this International Institute is to respond to the urgent global need for human resources, particularly in the fields of health and human services. Specific activities include the development of education and training programs; promoting relevant research and model demonstration programs and projects; encouraging technical cooperation with developing countries; promoting exchange of information and experience at the international level; and engaging in the convening of conferences. The Institute also provides a comprehensive, centralized source of data and information on human resource development, linking it to internationally recognized networks, and serving as a repository and a clearinghouse for information.

Center for Injury Prevention and Research

Dolores A. Wozniak, Director

Administered through the College of Health and Human Services, the purpose of the Center is to prevent intentional and unintentional injury among all segments of the community and in all age ranges, from birth to old age. The Center will accomplish this purpose through seven essential functions: 1) Establishing and coordinating a multidisciplinary group of professionals dedicated to injury control and prevention including traffic safety; 2) Assisting in the coordination of existing local and state resources for injury intervention and prevention; 3) Conducting ongoing injury data surveillance; 4) Supporting appropriate injury related intervention and prevention strategies aimed at individual and community change; 5) Stimulating injury intervention and prevention based research and program development; 6) Disseminating the results of injury intervention and prevention research activity generated by the Center; and 7) Providing technical assistance, training, and continuing education to appropriate target audiences in California and outside of California, as requested. Specifically, the Center will identify injury problems and gain extensive community information which will be used to develop strategic plans to control and prevent injuries. In addition, the Center will define the changes required to reach desired solutions. A systems approach will be used to address these issues as such an approach also recognizes the comprehensive nature of injury problems and the need to develop equally comprehensive solution sets.

Center for Inland Waters

Stuart H. Hurlbert, Director

The Center for Inland Waters is an interdisciplinary academic unit consisting of faculty members from four SDSU colleges (Arts and Letters, Engineering, Health and Human Services, Sciences). Its purpose is to foster basic and applied collaborative research among SDSU scientists and scholars on inland water resources and ecosystems, the application of their expertise to the solution of water-related problems in southern California and adjoining regions, and the coordination and development of courses, curricula, and physical facilities for water-related instruction and research. Inland water resources include the water supply for domestic, agricultural and industrial uses, the growing system of aqueducts, reservoirs, and aquifers in which this supply is transported and stored, and the rivers, lakes, and wetlands important as habitat for wildlife, as maintainers of environmental health, and as recreation areas. Of special interest to the Center are social, economic, hydrological, public health, and ecological issues concerning the Colorado River and its delta, the Salton Sea, and the new Tijuana and Santa Margarita Rivers and their watersheds. The Center is operated as a special unit of the College of Sciences and is administered by a Director and an elected Executive Committee. Information on the Center and regional water resources is available at www.sci.sdsu.edu/salton/.

Center for Innovation in Computer Science Education

William A. Root, Director

The Center for Innovation in Computer Science Education serves the University by promoting the integration of computer science education at SDSU into the business, social and educational fabric of the San Diego community at large. The Center's mission focuses on three complementary and interdependent areas: industry partnerships, university curriculum innovation, and community outreach.

The Center works to broaden and intensify the relationship between SDSU and local industry in the computer science area, by promoting and administering significantly expanded formal internship programs, faculty consulting, and participation of local industry professionals in team-teaching advanced-technology computer courses at SDSU. The Center aims to foster innovation in SDSU's computer science curriculum by undertaking research in computer science pedagogy. Finally, the Center seeks to improve the number and quality of SDSU's incoming computer science students by actively promoting and administering cooperative programs linking SDSU, private sector technology firms, and San Diego area K-12 schools. The goal of these programs is to ensure that promising students in local schools are exposed early to the excitement of computer science, and are well prepared to make a seamless transition from secondary school to a challenging first-year university computer science curriculum.

The Center is comprised of an interdisciplinary group of faculty who have interest and technical expertise in computer science, and, particularly, in computer science education. Currently, the Center includes members from the faculties of Computer Science, Mathematics, and Physics. For information, call the Center for Innovation in Computer Science Education at (619) 594-6837.

International Center for Communications

John M. Eger, Director

The International Center for Communications draws upon the resources of the University, the community, and the communications industry to provide the nation's international focal point in the Pacific in which academic study, innovative research and practical experience among the private and public sectors are joined to help solve critical issues confronting the Pacific region. The Center serves two major purposes: 1) to initiate dialogues leading to new understanding among the diverse cultural and community interests of the region; and 2) to link communications and community in the new relationships essential to fulfilling the promise of the Pacific world.

The goals of the International Center are to establish an institutional approach to learning, problem-solving and practical work focusing on the critical issues of communication and information; to create a new and dynamic partnership in San Diego between business and industry, government and academia, redefining and building a sense of community; and to develop a forum and agenda for research, discussion and collaboration with other organizations in the Pacific leading toward the establishment of a permanent "Pacific Dialogue on the Media."

The Center also houses the California Institute for Smart Communities founded to assist communities understand the use of technology as a catalyst for economic and social development.

Center for the Study of International Education

Donn C. Ritchie, Director

The Center for the Study of International Education is a unit of the College of Education. It promotes faculty and graduate student research, explores study abroad and exchange possibilities for faculty and students, and disseminates information about international education to interested persons in the San Diego area. It also seeks to complement regular course offerings through sponsorship of lectures, conferences, and the development of bibliographic resources.

The Center seeks to foster not only a network of interested faculty within the College of Education but also encourages faculty involvement from other colleges on campus as well as from other organizations and universities in the San Diego region.

Center for International Media and Communication Education

Donald R. Martin, Director

The Center for International Media and Communication Education is an effort of the School of Communication and the College of Professional Studies and Fine Arts, in collaboration with the KPBS stations. The Center was established to develop and provide international educational programs in communication as well as professional training for foreign educational institutions and media organizations.

The Center utilizes the academic and professional expertise of the faculty and KPBS personnel to develop international educational and training programs. It develops international linkages between the School of Communication and similar academic programs at foreign universities, and establishes international exchange programs in communication fields for undergraduate and graduate students, faculty members, and media professionals. It administers a variety of service programs that provide consulting and training for international media organizations.

International Population Center

John R. Weeks, Director

The International Population Center (InterPop) promotes applied demographic research and the provision of technical assistance and consulting, especially focusing on population issues and policy within the San Diego/Tijuana region and the Middle East.

Although it is located in the Department of Geography, InterPop is a multidisciplinary facility, linking Center faculty from several departments on campus with Center associates from other organizations and universities in the San Diego region. The telephone number for the center is (619) 594-8040.

Institute for International Security and Conflict Resolution

Alan R. Sweedler and Dipak Gupta, Co-Directors

The SDSU Institute for International Security and Conflict Resolution (IISCOR) encourages and facilitates teaching and research in the multidisciplinary area of international security and conflict resolution. Topics such as nuclear armaments, international and intranational conflict, sociopolitical violence, and global environmental issues as they relate to security are covered.

The Institute is a joint effort of the Colleges of Arts and Letters, Professional Studies and Fine Arts, and Sciences. IISCOR is administered by two co-directors, advised by an executive committee consisting of faculty members representing the different disciplines that provide input into the study of international security and conflict resolution.

The Institute promotes teaching and research by organizing public forums, faculty and student seminars, developing appropriate curricula for undergraduate and graduate instruction and facilitating research and scholarly activities. SDSU offers, through IISCOR, a multidisciplinary Bachelor of Arts degree in International Security and Conflict Resolution. More information is available by calling the IISCOR office at (619) 594-6240.

International Technology and Trade Network

The International Technology and Trade Network (ITTN), an institute of San Diego State University's Center for International Business Education and Research (CIBER), is a collaborative offering of the College of Business Administration and the College of Arts and Letters. The objective of the ITTN is to promote methods for creating a stable economic environment for transnational business, trade, and research. The Institute will seek ways to use business as a catalyst for regional peace and cross-border economic development. This effort will focus on networking together business assistance organizations, academic institutions, and research centers in regions of conflict and emerging economies. We will establish a virtual business assistance

network that will take advantage of the latest Internet, information, and telecommunications technologies to provide business-to-business and organizational links. We will use these technologies to share information as well as provide educational, training and distance learning opportunities to participating members of the network. For more information, contact David Earwicker with the SDSU CIBER at (619) 594-6023 or david.earwicker@sdsu.edu.

Interwork Institute

Fred R. McFarlane and Ian R. Pumpian, Co-Directors

The Institute's efforts focus on promoting the integration of individuals, including those with disabilities into all aspects of school, work, family, and community life. The Institute conducts research, training, and education using a variety of strategies including distance learning technologies. Educational and research efforts involve organizations and individuals in the states, the Pacific Basin, Asia, and Europe. Faculty and staff associated with the Institute are uniquely prepared to promote the meaningful participation and productivity of each member of the community. The Institute's mission is supported through local, state, federal, and international organizations. The Institute's facilities are located at 3890 Camino del Rio North in Mission Valley.

Center for Islamic and Arabic Studies

Paul J. Strand, Acting Director

The Center for Islamic and Arabic Studies is charged with teaching and research focused on Islam and the lives of Islamic and Arabic-speaking peoples past and present. It sees Islam, rooted in the Arabic language and experience, as a system of beliefs and a way of life, richly cosmopolitan and of world-historical significance.

The Center includes in its scope of study the Arabic language; Islamic religion and law; the history of the Muslim peoples across Eurasia and Africa; the role of Muslim peoples and nations in world politics, economics, and social issues; political life in Muslim nations; and Muslim communities in the United States.

Its ambition is to become a leading center in North America for the study of Islamic history, religion, society, economy, and culture as a global phenomenon.

Center for Learning, Instruction, and Performance Technologies

Brock S. Allen, Director

The Center's faculty and staff conducts research on the design and use of technology-based systems for enhancing human learning and performance, monitors trends in advanced applications of educational technology and allied disciplines, and evaluates the effectiveness and usability of educational products and services.

The Center consults with corporations, agencies, and SDSU affiliates on the design of products for education and training, arranges for on-site and electronic delivery of professional development courses and seminars by the nationally recognized faculty of SDSU Department of Educational Technology, and coordinates fieldwork and internship opportunities for advanced graduate students.

The Center also offers the services and capabilities of the College of Education's Educational Design Research Laboratory to clients who are interested in rapid prototyping and formative evaluation of educational products and services. A principle focus of the EDRL is the use of high technology video and computer systems to capture and analyze data about the usability and learnability of prototype products.

Institute for Leisure Behavior

Gene G. Lamke, Director

The Institute for Leisure Behavior is the research and community service unit within the Department of Recreation, Parks and Tourism at San Diego State University. It is primarily concerned with conducting leisure related research, promoting professional development, disseminating specialized publications, organizing conferences, seminars, lectures and workshops.

The Institute is governed by a Board of Directors which, in turn, is advised by a group of thirteen individuals from park and recreation and related fields. The Advisory Council has been instrumental in providing valuable information to the Board concerning the needs and direction of the leisure services field.

The Institute administers a variety of service programs within San Diego County. Camp Able at Coronado, an aquatic based camp for disabled children and adults, operates ten weeks during the summer at Silver Strand State Beach. The Spring Valley R.E.A.C.H. Program, funded by Social Advocates for Youth, provides recreational and educational activities for children and youth. Additionally, the Institute conducts research for local tourism, park and recreation entities as well as the California Department of Parks and Recreation and the United States Forest Service.

The Institute publishes monographs focusing on important issues relative to leisure services delivery. These are available to the public as well as park and recreation practitioners. Research projects under the direction of the Institute focus on local, state, national, and international problems related to leisure and park/recreation/tourism services.

Lipinsky Institute for Judaic Studies
Lawrence Baron, Director

The Lipinsky Institute for Judaic Studies, located in the College of Arts and Letters, serves to coordinate the Judaic Studies minor at SDSU. Established with contributions from the San Diego community, the Lipinsky Institute provides financial support for an annual visiting professor from Israel, the annual Galinson-Glickman symposium on contemporary Israeli issues, the Robert Siegel Memorial Lecture, and the Jewish heritage video collection housed in the library's Media Center. It also complements regular course offerings by sponsoring lectures, acting as a community resource on Jewish studies, and housing the Jewish Historical Society of San Diego archives in the Snyder Judaic Studies reading room (LL 363).

**Center for Research in
Mathematics and Science Education**
Kathleen M. Fisher, Director

The Center for Research in Mathematics and Science Education (CRMSE) is an interdisciplinary consortium of faculty interested in research on substantive questions related to the learning and teaching of science and mathematics. The Center currently has members from the faculties of Biology, Geological Sciences, Mathematics and Statistics, Physics, Psychology, and Teacher Education. It is administered by a director appointed by the dean of the College of Sciences and an associate director appointed by the dean of the College of Education. Through its activities, CRMSE initiates, encourages, and supports the scholarly pursuit of important theoretical and applied problems in mathematics and science education. CRMSE supports faculty in their current research projects and in the preparation of manuscripts for publication and grant proposals for continued research. The Center also administers the Doctoral Program in Mathematics and Science Education that is offered jointly by SDSU and the University of California, San Diego and the Professional Development Collaborative to serve area teachers. The Center is located at 6475 Alvarado Road, Suite 206, San Diego, CA 92120-5013; (619) 594-5090; campus mail code 1862.

Center for Microbial Sciences
Stanley R. Maloy, Director
Anca M. Segall, Associate Director

The Center for Microbial Sciences is a non-profit research center dedicated to the study of microorganisms. The Center's mission is to provide a productive, stimulating, and interactive research environment that will lead to rapid progress in the fields of microbial biology. The Center integrates multiple scientific approaches to elucidate basic biological principles that helps in combating human health problems caused by microorganisms and stimulates applications of microorganisms in the biotechnology industry.

The Center encourages multidisciplinary scientific research by bringing together a group of creative, cooperative investigators with different scientific backgrounds to attack major questions in microbial biology using a variety of experimental approaches. The Center also trains scientists to attack important but neglected problems in microbial biology. The close proximity of the Center for Microbial Sciences is a nucleus of biotechnology companies facilitates interactions with industry. The Center also collaborates with neighboring institutions with expertise in other biological areas (UCSD, Scripps Research Institute, Salk Institute, Scripps Institution of Oceanography, and others) providing additional intellectual and physical resources.

The primary goals of the Center are:

- *Research* – To attract a group of imaginative, interactive investigators and provide a stimulating environment for productive, innovative research in microbial biology;
- *Training* – To train a new generation of scientists to solve important problems in microbial biology using innovative experimental approaches;
- *Outreach* – to provide expertise and facilities for visiting scientists from academia and industry to learn new technologies.

Molecular Biology Institute
Greg L. Harris, Director

The Molecular Biology Institute was established to serve interested departments of the biological and physical sciences in the coordination, support and enhancement of research and instruction in the molecular biological sciences. Interests and activities of the MBI encompass all approaches which aim to explain biology at the molecular level. The MBI sponsors a weekly seminar series that facilitates faculty and student interaction with scientists from other institutions. Currently, full members of the Institute are drawn from the departments of Biology and Chemistry, and the Graduate School of Public Health, and participate in the respective Ph.D. programs. Associate members are drawn from a variety of disciplines that are cognate with the molecular biological sciences. The Institute is also constituted as the university unit authorized to administer the master's program with an emphasis in Molecular Biology. The research programs of the MBI members are supported by a variety of agencies including the National Institutes of Health, the National Science Foundation, NASA, the American Heart Association, the American Diabetes Association, the Muscular Dystrophy Association, the Department of Energy, the U.S. Department of Agriculture, and the California Metabolic Research Foundation. Additional information is available from the MBI office; (619) 594-7429.

Institute for Nursing Research
Catherine E. Loveridge, Director

Administered through the School of Nursing, the purpose of the Institute is to promote collaboration in the conduct, dissemination, and utilization of nursing research which will contribute to the quality of patient care and service. The Institute provides a forum for research interests and activities, and also fosters collaborative research efforts among Institute nurse clinicians and SDSU nursing faculty. This includes identifying research priorities for individual and multi-site research projects, and providing consultation for design, method, analysis, computer services, instrumentation, and manuscript preparation. The Institute also facilitates the dissemination of research findings. Web site for the Institute is at www-rohan.sdsu.edu/dept/chhs/nursing/inr.html.

Production Center for Documentary and Drama
Jack Ofield, Director

The Production Center for Documentary and Drama sponsors and creates professional films and television programs and series and symposia with high artistic and technical standards, documentary accuracy, and creative originality. Within the School of Communication, Production Center projects are integral to the training of senior

and graduate students in the telecommunications and film disciplines. Students work in tandem with industry professionals to gain practical experience in location and studio production. Located in Communication 124, 125, 126, the Production Center mentors graduate students and alumni in the creation of projects that are an expression of their artistic and technical growth. The Center serves local, national, and international non-profit entities such as museums, libraries, performing and visual arts groups and public service, research, philanthropic and government agencies in the development of audio-visual programs, and assists other SDSU departments in documenting important projects and programs. Production Center projects are distributed world-wide and funded from grants and contracts with industry, government, philanthropy, education and business.

Institute of Public and Urban Affairs

Louis M. Rea, Director

The Institute of Public and Urban Affairs is located in the School of Public Administration and Urban Studies. The Institute was established to conduct research in community and governmental affairs and to sponsor conferences, colloquia and symposia related to issues in public administration and affairs including urban planning, management and criminal justice administration. The Institute also publishes occasional working papers and research monographs. Selected students and faculty of San Diego State University staff the Institute. An integral part of the Institute is the Public Administration Center which contains a specialized and growing collection of research materials emphasizing issues in public affairs particular to San Diego and California.

Institute for Public Health

K. Michael Peddecord, Interim Director

Administered through the Graduate School of Public Health, the mission of the Institute is to serve as a vehicle for the development and support of functional linkages between the SDSU Graduate School of Public Health, local public health agencies, and private organizations in the San Diego community and neighboring areas, including Mexico. These linkages expand the availability of University-based public health expertise, research and information in the areas of biostatistics, environmental health, epidemiology, health services administration, health promotion, industrial hygiene, maternal and child health, occupational health, and toxicology. Specific activities include collaborative research, technical assistance, program evaluation, consultation, continuing education and professional development, student field placement, faculty/practitioner exchange, information dissemination, and various service activities. The Institute serves to bridge public health academics and practice by facilitating meaningful partnerships between faculty, students, and local practitioners. The Institute offices are located at 6505 Alvarado Road, Suite 115, (619) 594-2632.

Real Estate and Land Use Institute (RELUI)

Established in 1983, the Real Estate and Land Use Institute (RELUI) is the first systemwide research-oriented institute of its kind in the 23-campus California State University system. The San Diego regional office of RELUI is located in the College of Business Administration.

RELUI's mission is to promote education and research in real estate and land use. In support of this mission, RELUI seeks to (1) support, coordinate, and manage systemwide and inter-campus research activities; (2) obtain funding sources for education and research activities; (3) promote the general well-being of undergraduate and graduate study within the CSU system; and (4) maintain liaison with government agencies, private industry, and associated organizations with interest in public policy.

RELUI maintains a research and reference center in the College of Business Administration where specialized real estate and land use related materials are available for use by students and faculty.

RELUI also sponsors an internship program for placement of qualified students with local firms to provide a combined working and learning experience. Additional benefits accrue to interns in the form of academic credits and stipends. For more information, call (619) 594-2301. E-mail address: relui@mail.sdsu.edu

Institute for Regional Studies of the Californias

Paul Ganster, Director

The Institute for Regional Studies of the Californias (IRSC) provides San Diego State University with a forum for the investigation, discussion, and dissemination of information about the United States-Mexican border region. The Institute focuses on the border region of California and Baja California Sur and is also concerned with important issues of the United States-Mexican interface and monitors border regions elsewhere in the world.

Created in 1983, the Institute has undertaken multidisciplinary applied research projects on important regional concerns including transborder environmental issues, policy perspectives of the California-Mexico relationship, quality of life, and sustainable development. IRSC also plays an active role in Mexico-related professional organizations and is frequently consulted on transborder issues by the media, nongovernmental organizations, the public sector, and other border stakeholders.

Other Institute activities include conducting binational symposia; improving communication between public and private sector representatives on both sides of the border; serving as a clearinghouse for information on transborder events, issues, and institutions; and encouraging the effective use of educational resources among the region's universities. The Institute serves as a major link between SDSU and Mexican institutions.

IRSC has an ongoing publications program that includes books, monographs, and shorter items. Many titles are co-published with SDSU Press. IRSC serves as co-editor of the *Journal of Borderlands Studies* that is published by the SDSU Press.

IRSC has under way applied research projects on border environmental issues and public policy, regional economic issues, and transborder planning issues. IRSC serves as the SDSU link to the Southwest Center for Environmental Research and Policy, a congressionally established consortium of Mexican and U.S. universities for research and policy studies on environmental issues of the border.

Dr. Sanford I. Berman Institute for Effective Communication and General Semantics

The Dr. Sanford I. Berman Institute for Effective Communication and General Semantics within the School of Communication is dedicated to the study of language and behavior in social context. Contemporary trends no longer seem to answer to the call of the individual's command of language in everyday experience. It is therefore imperative that the connections between communication and the practical realms of polity, family, and society be re-established. To do so requires scholarly attention to and an understanding of the relations among our symbolic activities, society, and the mind. The Dr. Sanford I. Berman Institute serves in this vanguard role. The Institute measures its stature by the success of those it trains to lead a more enriching existence through communication.

Computational Science Research Center

José E. Castillo, Director

Associate Directors: Massimo Boninsegni and Donald R. Short

The Computational Science Research Center (CSRC) promotes the development and advancement of the interdisciplinary subject of computational science. This is accomplished by fostering research, developing educational programs, and promoting industrial interaction, outreach, and partnership activities.

The Center provides an environment for scientific research at San Diego State University. It facilitates the interaction between applied mathematics, computer science, and other disciplines by providing

the necessary infrastructure for productive research efforts. Real world applications are the focus of faculty and student projects. These projects provide an educational opportunity for students to hone industrially relevant computational skills.

The goals of the Center are to encourage and facilitate research in computation, simulation, visualization, and numerical modeling in all disciplines (business and finance, biology and bioinformatics, engineering, physical sciences, and geography); to interact with other centers, laboratories, universities, and local industry; reduce lag time between algorithm development/analysis and applications; to participate in programs with other countries, including international programs sponsored by the National Science Foundation; to arrange visits by professors, including foreign visitors on sabbaticals and professional staff on industrial sabbaticals; to arrange part time and adjunct appointments for consulting activities by professional staff from local research laboratories; to provide employment, experience, and contacts for students; to sponsor conferences, workshops, and courses; to facilitate collaboration with government laboratories with private sector; to provide bridges to regional industry; and to direct the computational science program at San Diego State University.

Interested students and faculty may obtain more information by calling the CSRC office at (619) 594-7205, www.sci.sdsu.edu/csarc.

Center for Social Equity Technical Assistance

Ruben W. Espinosa and Alberto M. Ochoa, Co-Directors

The Center conducts training and research on issues of social equity and bilingual/multicultural policy, and provides technical assistance to districts throughout southern California. The Center conducts research in public equity and school finance. The Center houses projects funded by federal, state, and private sources. Current projects include the Parent Leadership and the Social Equity project. The Center functions within the Department of Policy Studies in Language and Cross-Cultural Education at San Diego State University.

Social Policy Institute

Terry Carrillo, Coordinator

Administered through the School of Social Work, the mission of this Institute is to assist local and state, public and private sector leaders in the development of policies and programs that better meet the needs of the people of San Diego County and the State of California. The Institute is dedicated to helping create quality human service programs through the integration of policy development, state-of-the-art practice models and relevant research. The Institute provides expert technical assistance and consultation to public and private sector leaders in the development of progressive social policy, strategic planning and quality management. The Institute is engaged in examining health and human service issues and problems through conducting research and evaluations, in reviewing existing studies and reports at the local, state, and national levels; and in preparing recommendations for dissemination to elected officials, special commissions, task forces, business executives, community leaders, and administrators of major institutions. Results, findings, and information are communicated through published professional monographs and journal articles, professional meetings and conferences, op-ed newspaper essays, testimony to political bodies, such as the County Board of Supervisors and State Legislators, a computer web site, news conferences, and interviews with electronic media representatives. Scholars from several departments within the University individually and in collaboration lend their expertise to the analysis of regional health and human services problems. Issues of focus include children, youth, and family concerns, aging and the elderly, mental health, health care delivery, welfare reform, family violence, immigration, community economic development, diversity and discrimination, and homelessness. The Web site for the Institute is www.sdsu-spi.org.

Strategic Technologies and Research (STAR) Center for Electronic Business

Annette Easton and George Easton, Co-Directors

The Internet is reshaping business and the future of business is electronic business (e-Business). The Strategic Technologies and Research (STAR) Center for Electronic Business is dedicated to exploring the strategies, technologies, and business models associated with conducting business electronically.

The interdisciplinary STAR Center engages in activities that focus on information technologies, management strategies, markets and operational issues of electronic business. The goals of the Center include creation and implementation of educational programs in electronic business; creation of research and professional development opportunities with an electronic business focus; creation of opportunities for professional and community service that focus on electronic business; creation of effective development strategies to ensure long term viability; and creation of effective methods of information sharing and outreach. The STAR Center provides the framework for the College of Business Administration to manage the curriculum, grow the research programs, and harvest opportunities provided by this new discipline.

The STAR Center is located in the College of Business Administration's electronic boardroom (SS-2601). STAR Center staff can be reached at (619) 594-2759, via e-mail at starcenter@sdsu.edu or at starcenter.sdsu.edu.

Center on Substance Abuse

Anita S. Harbert, Director

Annette R. Smith, Coordinator

Administered through the School of Social Work, the Center was established in 1985 with a primary mission of facilitating the development of knowledge and skills for the prevention and treatment of alcohol and drug problems. Goals include developing and supporting projects in substance abuse research, curriculum, and community service. The Center is actively engaged in conducting alcohol and other drug research and evaluation projects. Over the past decade, the Center has received numerous federal, state, and county grants. Ongoing projects of the Center include the Community-Collegiate Alcohol Prevention Partnership (C-CAPP) and the Student-to-Student Project. C-CAPP is funded by the National Institute for Alcoholism and Alcohol Abuse and the U.S. Department of Education. Both C-CAPP and Student-to-Student have the goal of reducing alcohol and other drug problems among college students. Other recent research projects include a study of California's publicly-funded substance abuse treatment system and an evaluation of the Pacific Southwest Addiction Technology Transfer Center. In addition, the Center provides services such as the Central District Driving Under the Influence Program, providing education and counseling for court-ordered offenders in the central judicial district of San Diego County. It has also been involved in the training of several hundred community professionals in substance abuse intervention, and participates in the San Diego Intercollegiate Consortium for Alcohol and Drug Abuse Prevention, and on the Professional Development Committee of the California Addiction Training and Resource Center at UCSD.

The Center is located at 9245 Sky Park Court, Suite 125, (858) 715-0860. The Student-to-Student office is located on-campus, (619) 594-5803. The DUIP program is located at Sky Park Court, Suite 101, (858) 467-6810.

California Institute of Transportation Safety

Sheila Sarkar, Director

The California Institute of Transportation Safety (CITS) was created to conduct research, administer programs, and teach courses in transportation safety. Several renowned professionals in engineering, public health, and psychology are affiliated with the Institute, and GIS is

used for engineering design work. CITS offers courses for traffic engineers as well as opportunity for students in transportation engineering to work as interns. Current programs include Workplace Traffic Safety initiatives, Southern California Local Traffic Safety Program, and Aggressive Driving and Road Rage behavior modification program.

Center for the Visual and Performing Arts

The Center for the Visual and Performing Arts serves as a focal point for the arts on campus and in the San Diego region. The Center's primary activities involve enhancing, coordinating, and publicizing the College's visual and performing arts programs, forming alliances and partnerships with San Diego arts agencies, and initiating new programs to expand the impact of the arts on the campus and in the community.

The Center promotes the integration of the arts on campus through curriculum initiatives by designing collaborative courses that integrate the arts into other discipline areas. The Center enhances art on campus through the "Masters of the Living Arts Program," which brings internationally known artists to perform and exhibit, to conduct master classes and workshops, and to present lectures for students, faculty, and the San Diego arts community. The Center promotes the arts throughout the community by initiating outreach programs from the campus in the visual and performing arts. The Center also serves the campus and the San Diego artistic community by exploring important issues and themes relative to the arts through educational opportunities, public forums, research, and multidisciplinary and multicultural exhibits and performances.

Research Lecture Series

Distinguished Graduate Research Lecture Series

The Distinguished Graduate Research Lecture Series is sponsored by the Office of the Associate Vice President for Research and Dean of the Graduate Division and the University Research Council and is supported in part through Instructionally Related Activities funds. The Series was established for the purpose of bringing to the campus scholars of national and international preeminence to present a public lecture on a general subject related to research and graduate education. In addition to this public lecture, the distinguished lecturer provides an unusual educational opportunity for graduate students by conducting a graduate research colloquium. Each of the lecturers in the Series is published to assure increased availability to students, faculty, and the university community at large.

Past Distinguished Research Lecturers have included Dr. Owen Gingerich, Professor of Astronomy and History of Science, Harvard University and Senior Astronomer, Smithsonian Astrophysical Observatory; Dr. Noam Chomsky, Institute Professor of Linguistics, Massachusetts Institute of Technology; Dr. Arthur Kornberg, Professor of Biochemistry, Stanford University; Dr. Nathan Glazer, Professor of Education and Sociology, Harvard University; Dr. Jane Goodall, Director, Gombe Stream Research Centre; Dr. Jonathan Miller, well-known author, stage producer and director; Dr. Stephen Jay Gould, Professor of Geology, Harvard University; Dr. Frank Sherwood Rowland, Professor of Chemistry, U.C. Irvine Nobel Laureate, and theorist on origins of ozone depletion; Ms. Susan Sontag, one of America's best known writers; and Dr. Michael J. Novacek and Dr. Mark A. Norell, Curator and Associate Curator respectively of Vertebrate Paleontology of the American Museum of Natural History; and Dr. Miguel Leon-Portilla, Professor Emeritus, National Autonomous University of Mexico.

Albert W. Johnson University Research Lecture

A project sponsored by the University Research Council and the Office of the Associate Vice President for Research and Dean of the Graduate Division, the Albert W. Johnson University Research Lectureship is awarded to an SDSU faculty member for outstanding achievement in research and scholarship. The purpose of the University Research Lectureship is to recognize such achievement, to foster its continuance, and to enable a distinguished resident faculty scholar to share knowledge more broadly with the academic community and the community-at-large.

One SDSU faculty member may be designated annually as the Albert W. Johnson University Research Lecturer for the academic year. Each of the lectures in the Series will be published to assure its increased availability to the students and faculty of the university and to the community at large.

Past lecturers have included Dr. Joseph Ball, Professor of Anthropology; Dr. Alvin Coox, Professor of History; Drs. James Flood and Diane Lapp, Professors of Education; Dr. Maurice Friedman, Professor of Religious Studies; Dr. Arthur Getis, The Stephen and Mary Birch Foundation Chair in Geographical Study; Dr. Dipak K. Gupta, Professor of Public Administration and Urban Studies; Dr. Robert Kaplan, Professor of Psychology; Dr. E. Percil Stanford, Professor of Social Work; Dr. Donna J. Thal, Professor of Communicative Disorders; Dr. Helen Wallace, Professor of Public Health; Dr. David Ward-Steinman, Professor of Music; and Dr. Catherine Yi-yu Cho Woo, Professor of Chinese.

Research and Technology Services

Office of the Committee on Protection of Human Subjects

The Committee on Protection of Human Subjects (CPHS) reviews research when procedures are proposed to obtain information about a living individual through the use of a survey, interview, observation, experimentation, or the analysis of human tissues, records, samples, or other data previously collected from human subjects. All research involving human subjects, within the jurisdiction of SDSU's federal assurance, must be reviewed and approved by the CPHS in advance of study initiation. The Human Subjects Program Office is responsible for providing administrative support to the CPHS and for establishing and maintaining a program in support of ethical and responsible research conducted under the auspices of SDSU. Call (619) 594-6622 for more information.

Office of the Institutional Animal Care and Use Committee

The University Animal Subjects Committee (UASC) is the Institutional Animal Care and Use Committee at SDSU and functions in accordance with Federal and State regulations and institutional policy. The Office of the Institutional Animal Care and Use Committee provides administrative support to this committee for implementing University policy for research, testing, or education involving the use of animals. Call (619) 594-0905 for more information.

Technology Transfer Office

The Technology Transfer Office (TTO) provides a central location where faculty, students, and staff may receive advice and assistance in the commercialization of their inventions, copyrights, and other scholarly work. In addition, the TTO assists in setting up new spin-off companies and obtaining venture capital for future development. This office also reports to the SDSU Foundation. Call (619) 594-0516 for more information.