



Activities of the CRA

2 0 0 3 ANNUAL REPORT

Message from the Board Chair

Looking back over the past year, I am pleased to report that CRA's ongoing programs continued to thrive and improve, and we have made significant progress in our efforts to develop new areas of interest to our membership.

We have been working hard to increase awareness of CRA among those we serve and those we seek to inform and influence. Our belief is that the more CRA is recognized as representing the computing research community, the more impact we will have in areas that matter to us. Increasingly CRA is becoming the "go-to" organization on issues surrounding computing research. The flow of inquiries—from congressional staffers, organizations seeking alliances with computing researchers, and government agencies seeking advice and counsel—increases year by year. A good example is a workshop on high performance computing that CRA was asked to organize in the spring.

CRA also participates in several important coalitions, including the Coalition for National Science Funding (CNSF), the Council of Scientific Society Presidents (CSSP), the Coalition for National Security Research (CNSR), the Intersociety Working Group of the American Association for the Advancement of Science (AAAS), and the Digital Promise coalition.

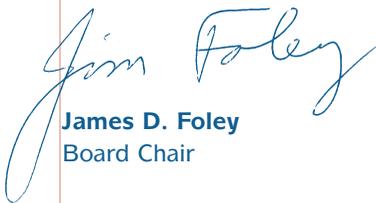
CRA has been mentioned more frequently in the press, either referencing data we have collected (mostly from the Taulbee Survey) or quoting CRA board members. Recent examples include the *New York Times*, the *Washington Post*, *USA Today*, the *International Herald Tribune*, *Black Issues in Higher Education*, the *Chronicle of Higher Education*, and the *Detroit News*. A few years ago this simply was not happening!

Board members have testified before Congress and assumed important advisory roles in the Administration and at federal agencies, and we are successfully engaging Members of Congress and their staff in discussing and affecting important policy and funding issues. We have increased our efforts to circulate CRA reports more broadly (two were completed this past year). A program initiated recently provides "Welcome to Computing Research" packets to Ph.D. students who have passed their qualifying exams.

Despite the weak economy and the slowdown in undergraduate CS enrollment, CRA membership grew slightly from 237 to 240 (214 academic departments and 26 labs and centers).

We thank our retiring board members for their dedicated service to CRA and the community. Mary Jane Irwin (Penn State), Nancy Leveson (MIT), and David Patterson (UC Berkeley) have been on the board since 1991; Dave was Board Chair from 1993 to 1997. Also retiring is Ambuj Goyal (IBM). Thanks to Jack Stankovic (UVA) who completed a two-year term as Treasurer and continues on the board. Members, volunteers, and staff deserve a round of applause for their many contributions.

It was a very good year for CRA. I am confident this year will be even better!



James D. Foley
Board Chair

Highlights

RESEARCH POLICY

In addition to working to ensure that computing research receives adequate support from policymakers, CRA's Government Affairs Program continued to make progress on two difficult, but potentially rewarding, long-term goals—raising CRA's profile and encouraging the participation of CRA members directly in the legislative and regulatory process. Both began to bear fruit during 2002-03.

CRA's efforts to address the short-term research focus of the Defense Advanced Research Projects Agency (DARPA) resulted in increased Congressional attention and legislation calling for a National Academies of Science study to examine the concerns. CRA also provided significant input on legislation that: a) authorized substantial increases in cybersecurity R&D, b) authorized a doubling of the NSF budget over five years, and c) created the Department of Homeland Security. All three bills became law.

CRA volunteers continued to play an active role in shaping federal IT policy. Three members of CRA's Government Affairs Committee and a former member of CRA's Board of Directors were nominated by President Bush to serve on his 25-member Information Technology Advisory Committee (PITAC), a panel charged with evaluating federal IT R&D.

In the coming year, CRA will continue to work on strengthening its position as one of the authoritative voices on computing research issues.

INFORMATION ACTIVITIES

The Communications Committee introduced an initiative to increase CRA's visibility among particular constituent groups (e.g., faculty, students, deans/administrators, and lab researchers). The website was redesigned to provide easy access to information for faculty and students. A new program was initiated to provide CRA welcome packages to graduate students who have recently completed their qualifying examinations. The packages contain information that will make them aware of what CRA provides for graduate students, as well as a CRA T-shirt and bookmark.

CRA conducted the 32nd annual *Taulbee Survey* of Ph.D.-granting CS&CE departments, and its annual *Salary Survey of Computer Science Researchers in Industrial Laboratories*.

Two CRA reports were completed last year: "Grand Research Challenges in Information Systems" and "Recruitment and Retention of Faculty in Computer Science and Engineering." *Computing Research News* and CRA's electronic bulletin, *CRB*—along with regular e-mail communications to chairs of all U.S. and Canadian Ph.D.-granting CS&CE departments via the *Forsythe List of Ph.D.-Granting Institutions*—continued to provide current items of interest to the computing research community.



HUMAN RESOURCES

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CRA's awards programs once again recognized outstanding contributions to the community. Rita Rodriguez, National Science Foundation CISE directorate, received the 2003 *A. Nico Habermann Award* for her tireless efforts on behalf of minorities and women in computer science. Awards to undergraduates with outstanding research potential were made to Omar Khan, Cornell University, and Bistra Dilkina, Simon Fraser University. Runners-up were Julie Thornton, Kansas State University, and Noah Snavely, University of Arizona. Seven students were Finalists, and sixty-nine received Honorable Mention. Microsoft Research sponsored the undergraduate awards last year.

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The Committee on the Status of Women in Computing Research (CRA-W) continues to provide successful ongoing programs and innovative new projects with support from CRA, the National Science Foundation, USENIX, Lucent Technologies, and EOT-PACI. The Distributed Mentoring Project (DMP) experienced a dramatic surge in demand from both student applicants and potential mentors. The available funding supported 36 students for summer research. The Collaborative Research Environment for Women (CREW) supported 42 women undergraduates at 19 colleges in year-long group research projects. A reunion for past participants of CREW and DMP was held at the Grace Hopper Celebration.

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CRA-W held two career mentoring workshops this year—one at the SIGCSE conference targeting women teaching at four-year colleges, and one at FCRC featuring career tracks for pre-tenure academics, researchers from industrial labs, and senior academic women. Proposals were developed for new CRA-W projects: one aimed at the promotion of women Associate Professors and another at providing survival skills for entering graduate students.

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The Coalition to Diversify Computing (CDC, a joint committee of the ACM, CRA, and IEEE Computer Society) planned the second Richard Tapia Celebration of Diversity in Computing Symposium to be held in Atlanta in October 2003. CDC is working with CRA-W to write a joint project to extend CRA-W's CREW project to minorities (CREW/M). A meeting was held in June with key representatives from the three societies to discuss the Joint Society Agreement. In May, CDC made the second round of awards in the program to send students/mentors to technical conferences.

A new CRA report, "Recruitment and Retention of Faculty in Computer Science and Engineering," was completed in June.

COMMUNITY-BUILDING

The report of the first CRA Grand Research Challenges in Computer Science and Engineering Conference was completed in June 2003. Supported by the National Science Foundation, the conference focused on systems research issues. CRA plans a series of such conferences addressing grand challenges in different areas of computing research. The next one, focusing on information security and assurance, will take place in November 2003.

CRA hosted its ninth Computing Leadership Summit in February, bringing together the presidents, executive directors, and other senior leadership of CRA and its six affiliate societies—AAAI, ACM, CACS/AIC, IEEE Computer Society, SIAM, and USENIX—and NRC's Computer Science and Telecommunications Board. This annual event provides a venue where common interests and potential cooperative efforts are discussed.

CRA's *Distinguished Service Award* was given to Ruzena Bajcsy, Director of CITRIS at UC Berkeley, for her years of service to the community and her role as Assistant Director of CISE at the National Science Foundation

CRA continued its efforts to build the research community and provide lab managers an opportunity to share experiences by helping to develop regional meetings of lab directors. CRA also continued to support meetings of the heads of schools of information science in an effort to identify areas of common interest. This group continues to meet twice a year as an adjunct to CRA board meetings.

The CRA Model Agreements Working Group was formed to explore issues related to academic-industry agreements. A "Best Practices Memo" appears in the September 2003 issue of *Computing Research News*.

At the request of the National Coordination Office for Information Technology Research and Development (NCO/IT R&D), CRA organized a workshop in June for more than 200 participants on "The Road Map for the Revitalization of High End Computing." A workshop report will be published by CRA in the fall.

Affiliate and Labs/centers members

THE FOLLOWING ORGANIZATIONS HELD MEMBERSHIP IN CRA FOR ALL,
OR IN A FEW CASES PART, OF THE PERIOD JULY 2002 TO JUNE 2003

AFFILIATE PROFESSIONAL SOCIETIES

American Association for Artificial Intelligence
Association for Computing Machinery
Canadian Association of Computer Science (CACS/AIC)

IEEE Computer Society
Society for Industrial and Applied Mathematics
USENIX Association

LABS AND CENTERS

Accenture Technology Labs
AT&T Labs
Avaya
Computer Science Research Institute at Sandia National Labs
Fraunhofer Center for Research in Computer Graphics
Fujitsu Laboratories of America
Hewlett-Packard Co.
Honda R&D Americas
IBM Research
IDA Center for Computing Sciences
Institute for Human & Machine Cognition
Intel Corp.
Lawrence Berkeley National Laboratory

Los Alamos National Laboratory
Lucent Technologies, Bell Labs
Microsoft Corp. (Sustaining Member)
Mitsubishi Electric Research Labs
National Center for Atmospheric Research
National Center for Supercomputing Applications
NEC Laboratories America
Palo Alto Research Center
Panasonic Information & Networking Technologies Lab
Ricoh Innovations, Inc.
San Diego Supercomputer Center
Sun Microsystems, Inc. (Supporting Member)
Telcordia Technologies (Supporting Member)

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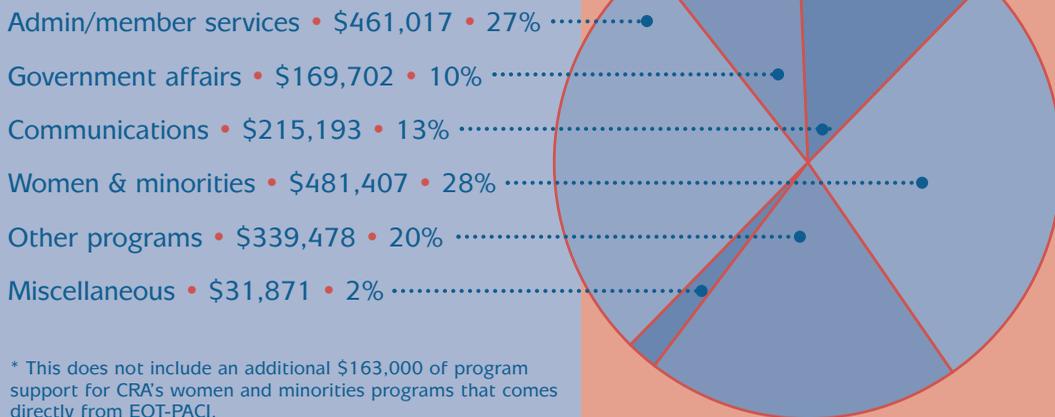
CRA financial statement

JULY 2002 - JUNE 2003

Revenue (\$1,786,191)*



Expenses (\$1,698,668)*



* This does not include an additional \$163,000 of program support for CRA's women and minorities programs that comes directly from EOT-PACI.

The financial data supplied here are based on unofficial records kept by the CRA staff. Divisions into revenue and expense categories are approximate. Official books prepared by CRA's external auditors will be available for review in January 2004.

cash position (thousands of dollars)

AS OF JUNE 30, 2003

Unrestricted FY 2003	\$223
Unrestricted FY 2004	195
Accounts Receivable	128
Restricted (projects)	47
Restricted (operating reserve)	511
Total	\$1,104

Academic Members



THE FOLLOWING DEPARTMENTS HELD MEMBERSHIP IN CRA FOR ALL,
OR IN A FEW CASES PART, OF THE PERIOD JULY 2002 TO JUNE 2003

Arizona State University • CSE	New York University • CS	University of Illinois, Urbana Champaign • CS
Auburn University • CSSE	North Carolina State University • CS	University of Iowa • CS
Ball State University • CS	Northeastern University • CS	University of Kansas • EECS
Boston College • CS	Northwestern University • CS	University of Kentucky • CS
Boston University • CS	Northwestern University • ECE	University of Louisiana at Lafayette • CACS
Bowdoin College • CS	Oakland University • CSE	University of Louisville • CECS
Bradley University • CS	Ohio State University • CIS	University of Maine • CS
Brandeis University • CS	Ohio University • EECS	University of Manitoba • CS
Brigham Young University • CS	Oklahoma State University • CS	University of Maryland • CS
Brown University • CS	Old Dominion University • CS	University of Maryland, Baltimore Co • CSEE
Bryn Mawr College • MCS	Oregon Health & Science University • CSE	University of Massachusetts, Amherst • CS
Bucknell University • CS	Oregon State University • CS	University of Michigan • EECS
California Institute of Technology • CS	Pace University • CSIS	University of Michigan • I
California Polytechnic State University • CS	Pennsylvania State University • CSE	University of Minnesota • CSE
California State University, Chico • CS	Pennsylvania State University • IST	University of Mississippi • CIS
California State University, Hayward • MCS	Polytechnic University • CIS	University of Missouri, Rolla • CS
Carnegie Mellon University • CS	Portland State University • CS	University of Nebraska, Lincoln • CSE
Carnegie Mellon University • ECE	Princeton University • CS	University of Nevada, Las Vegas • CS
Case Western Reserve University • EECS	Purdue University • CS	University of Nevada, Reno • CS
Clemson University • CS	Purdue University • ECE	University of New Brunswick • CS
Colgate University • CS	Rensselaer Polytechnic Institute • CS	University of New Hampshire • CS
College of Charleston • CS	Rice University • CS	University of North Carolina at Chapel Hill • CS
College of William & Mary • CS	Rochester Institute of Technology • CS	University of North Carolina, Charlotte • IT
Colorado School of Mines • MCS	Roosevelt University • CS&T	University of North Dakota • CS
Colorado State University • CS	Rutgers University, Busch Campus • CS	University of North Texas • CS
Columbia University • CS	Santa Clara University • CE	University of Notre Dame • CSE
Cornell University • CS	Simon Fraser University • CS	University of Oklahoma • CS
Cornell University • ECE	Singapore Management University • IS	University of Oregon • CIS
Dalhousie University • CS	Southern Illinois University, Carbondale • CS	University of Pennsylvania • CIS
Dartmouth College • CS	Southern Methodist University • CSE	University of Pittsburgh • CS
DePaul University • CS	Southern Polytechnic State University • CSE	University of Puget Sound • MCS
Drexel University • CS	Stanford University • CS	University of Redlands • MCS
Duke University • CS	State University of New York, Albany • CS	University of Rochester • CS
Emory University • MCS	State University of New York, Binghamton • CS	University of South Alabama • CIS
Florida Atlantic University • CSE	State University of New York, Stony Brook • CS	University of South Carolina • CSE
Florida Institute of Technology • CS	Stevens Institute of Technology • CS	University of Southern California • CS
Florida International University • CS	Swarthmore College • CS	University of Tennessee, Knoxville • CS
Florida State University • CS	Syracuse University • IS	University of Texas, Arlington • CSE
Florida State University • IS	Temple University • CIS	University of Texas, Austin • CS
George Washington University • CS	Texas A&M University • CS	University of Texas, Dallas • CS
Georgia Institute of Technology • CS	Texas Tech University • CS	University of Texas, El Paso • CS
Georgia Institute of Technology • ECE	Trinity College • CS	University of Toledo • EECS
Georgia Southern University • IT	Tufts University • CS	University of Toronto • CS
Georgia State University • CIS	University at Buffalo • CSE	University of Toronto • ECE
Georgia State University • CS	University at Buffalo • IS	University of Tulsa • MCS
Grinnell College • MCS	University of Alabama, Birmingham • CIS	University of Utah • CS
Harvard University • CS	University of Alabama, Tuscaloosa • CS	University of Vermont • CS
Harvey Mudd College • CS	University of Arizona • CS	University of Virginia • CS
Illinois Institute of Technology • CS	University of Arkansas • CSCE	University of Washington • CSE
Illinois State University • ACS	University of Arkansas at Little Rock • I	University of Washington • I
Indiana University • CS	University of California, Berkeley • EECS	University of Washington, Bothell • CS
Indiana University • I	University of California, Berkeley • IMS	University of Washington, Tacoma • CSS
Indiana University • LIS	University of California, Davis • CS	University of Waterloo • CS
Iowa State University • CS	University of California, Irvine • CIS	University of Wisconsin, Madison • CS
Johns Hopkins University • CS	University of California, Los Angeles • CS	University of Wisconsin, Milwaukee • EECS
Johns Hopkins University • SI	University of California, San Diego • CSE	University of Wyoming • CS
Juniata College • IT	University of California, Santa Barbara • CS	Utah State University • CS
Kansas State University • CIS	University of California, Santa Cruz • CE	Vanderbilt University • EECS
Kent State University • CS	University of California, Santa Cruz • CS	Virginia Commonwealth University • CS
Lehigh University • CSE	University of Central Florida • CS	Virginia Tech • CS
Long Island University • ICS	University of Chicago • CS	Wake Forest University • CS
Louisiana State University • CS	University of Cincinnati • EECS	Washington State University • EECS
Massachusetts Institute of Technology • AA	University of Colorado, Boulder • CS	Washington University in St. Louis • CS
Massachusetts Institute of Technology • EECS	University of Delaware • CIS	Wayne State University • CS
Miami University • CS	University of Denver • CS	West Virginia University • CSEE
Michigan State University • CS	University of Florida • CISE	Western Michigan University • CS
Michigan Technological University • CS	University of Georgia • CS	Williams College • CS
Mississippi State University • CS	University of Hawaii • ICS	Worcester Polytechnic Institute • CS
Montana State University • CS	University of Houston • CS	Wright State University • CSE
Naval Postgraduate School • CS	University of Idaho • CS	Yale University • CS
New Jersey Institute of Technology • CCS	University of Illinois, Chicago • CS	York University • CS
New Mexico State University • CS		

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AS OF JUNE 30, 2003

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AS OF JUNE 30, 2003

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