Activities of the

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2003 ANNUAL REPORT
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
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.
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.

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.

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.

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)
Revenue ($1,786,191)*

- Academic dues • $492,303 • 28%
- Labs & centers dues • $248,345 • 14%
- Society dues • $148,569 • 8%
- Ad revenue • $150,919 • 8%
- Grant income • $592,976 • 33%
- Interest income • $11,570 • 1%
- Conferences/workshops • $141,234 • 8%
- Miscellaneous • $275 • 0%

Expenses ($1,698,668)*

- Admin/member services • $461,017 • 27%
- Government affairs • $169,702 • 10%
- Communications • $215,193 • 13%
- Women & minorities • $481,407 • 28%
- Other programs • $339,478 • 20%
- Miscellaneous • $31,871 • 2%

* 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)

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<tr>
<th>Category</th>
<th>Amount</th>
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<td>Unrestricted FY 2003</td>
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<tr>
<td>Unrestricted FY 2004</td>
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<tr>
<td>Accounts Receivable</td>
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<tr>
<td>Restricted (projects)</td>
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<tr>
<td>Restricted (operating reserve)</td>
<td>511</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>$1,104</strong></td>
</tr>
</tbody>
</table>

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
Auburn University • CSSE
Ball State University • CS
Boston College • CS
Boston University • CS
Bowdoin College • CS
Bradley University • CS
Brandeis University • CS
Brigham Young University • CS
Brown University • CS
Bryn Mawr College • MCS
Bucknell University • CS
California Institute of Technology • CS
California Polytechnic State University • CS
California State University, Chico • CS
California State University, Hayward • MCS
Carnegie Mellon University • CS
Case Western Reserve University • ECE
Clemson University • CS
Colgate University • CS
College of Charleston • CS
College of William & Mary • CS
Colorado School of Mines • MCS
Colorado State University • CS
Columbia University • CS
Cornell University • CS
Cornell University • ECE
Dalhousie University • CS
Dartmouth College • CS
DePaul University • CS
Drexel University • CS
Duke University • CS
Emory University • MCS
Florida Atlantic University • CSE
Florida Institute of Technology • CS
Florida International University • CS
Florida State University • CS
Florida State University • IS
George Washington University • CS
Georgia Institute of Technology • CS
Georgia Institute of Technology • ECE
Georgia Southern University • IT
Georgia State University • CIS
Georgia State University • CS
Grinnell College • MCS
Harvard University • CS
Harvey Mudd College • CS
Illinois Institute of Technology • CS
Illinois State University • ACS
Indiana University • CS
Indiana University • I
Indiana University • US
Iowa State University • CS
Johns Hopkins University • CS
Johns Hopkins University • SI
Juniata College • IT
Kansas State University • CS
Kenti State University • CS
Lehigh University • CSE
Long Island University • ICS
Louisiana State University • CS
Massachusetts Institute of Technology • AA
Massachusetts Institute of Technology • ECE
Miami University • CS
Michigan State University • CS
Michigan Technological University • CS
Mississippi State University • CS
Montana State University • CS
New Jersey Institute of Technology • CCS
New Mexico State University • CS
New York University • CS
North Carolina State University • CS
Northeastern University • CS
Northwestern University • CS
Northwestern University • ECE
Oakland University • CSE
Ohio State University • CIS
Ohio University • ECECS
Oklahoma State University • CS
Old Dominion University • CS
Oregon Health & Science University • CSE
Oregon State University • CS
Pace University • CSIS
Pennsylvania State University • CSE
Pennsylvania State University • IST
Polytechnic University • CIS
Portland State University • CS
Princeton University • CS
Purdue University • CS
Purdue University • ECE
Rensselaer Polytechnic Institute • CS
Rice University • CS
Rochester Institute of Technology • CS
Rice University • CIS
Rutgers University, Busch Campus • CS
Santa Clara University • CE
Simon Fraser University • CS
Singapore Management University • IS
Southern Illinois University, Carbondale • CS
Southern Methodist University • CSE
Southern Polytechnic State University • CSE
Stanford University • CS
State University of New York, Albany • CS
State University of New York, Binghamton • CS
State University of New York, Stony Brook • CS
Stevens Institute of Technology • CS
Swarthmore College • CS
Syracuse University • IS
Temple University • CIS
Texas A&M University • CS
Texas Tech University • CS
Trinity College • CS
Tufts University • CS
University at Buffalo • CSE
University at Buffalo • IS
University of Alabama, Birmingham • CS
University of Alabama, Tuscaloosa • CS
University of Arizona • CS
University of Arkansas • CSE
University of Arkansas at Little Rock • I
University of California, Berkeley • ECECS
University of California, Berkeley • IMS
University of California, Davis • CS
University of California, Irvine • IS
University of California, Los Angeles • CS
University of California, San Diego • CSE
University of California, Santa Barbara • CS
University of California, Santa Cruz • CS
University of Central Florida • CS
University of Chicago • CS
University of Cincinnati • ECECS
University of Colorado, Boulder • CS
University of Delaware • CS
University of Denver • CS
University of Florida • CISE
University of Georgia • CS
University of Hawaii • ICS
University of Houston • CS
University of Idaho • CS
University of Illinois, Chicago • CS
University of Illinois, Urbana Champaign • CS
University of Iowa • CS
University of Kansas • ECECS
University of Kentucky • CS
University of Louisiana at Lafayette • CACS
University of Louisville • ECECS
University of Maine • CS
University of Manitoba • CS
University of Maryland • CS
University of Maryland, Baltimore Co • CSE
University of Massachusetts, Amherst • CS
University of Michigan • ECECS
University of Michigan • I
University of Minnesota • CSE
University of Mississippi • I
University of Missouri, Rolla • CS
University of Nebraska, Lincoln • CSE
University of Nevada, Las Vegas • CS
University of Nevada, Reno • CS
University of New Brunswick • CS
University of New Hampshire • CS
University of North Carolina at Chapel Hill • CS
University of North Carolina, Charlotte • IT
University of North Dakota • CS
University of Notre Dame • CSE
University of Oklahoma • CS
University of Oregon • CSE
University of Pennsylvania • CIS
University of Pittsburgh • CS
University of Puget Sound • MCS
University of Redlands • MCS
University of Rochester • CS
University of South Alabama • CS
University of South Carolina • CSE
University of Southern California • CS
University of Tennessee, Knoxville • CS
University of Texas, Arlington • CSE
University of Texas, Austin • CS
University of Texas, El Paso • CS
University of Toledo • ECECS
University of Toronto • CS
University of Toronto • ECE
University of Tufts • CSE
University of Utah • CS
University of Vermont • CS
University of Virginia • CS
University of Washington • CSE
University of Washington • I
University of Washington, Bothell • CS
University of Washington, Tacoma • CSS
University of Waterloo • CS
University of Wisconsin, Madison • CS
University of Wisconsin, Milwaukee • ECECS
University of Wyoming • CS
Utah State University • CS
Vanderbilt University • ECECS
Virginia Commonwealth University • CS
Virginia Tech • CS
Wake Forest University • CS
Washington State University • ECECS
Washington University in St. Louis • CS
Wayne State University • CS
West Virginia University • CSEE
Western Michigan University • CS
Williams College • CS
Worcester Polytechnic Institute • CS
Wright State University • CSE
Yale University • CS
York University • CS
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As of June 30, 2003

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