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Message from the Board chair

As the importance and scope of computing research continue to grow, so too does the Computing Research Association. Recall that we have a four-pronged mission, easily remembered by the acronym CHIP:

- Community contributing to the cohesiveness of the computing research community;
- Human Resources encouraging more students to enter graduate school (especially women and minorities) and helping new faculty and researchers succeed in their careers;
- *Information* collecting and disseminating information about the importance and the state of computing research; and
- Policy working to influence government policies and funding as they
 affect computing research.

The past year was a very successful one for CRA. Here are a few of the highlights: *Community*: CRA's biennial Conference at Snowbird broke previous attendance records (293 vs. 260 two years ago). Many participants described it as "the best yet."

Human Resources: CRA's Committee on the Status of Women in Computing Research (CRA-W) received a well-deserved Presidential Mentoring Award, presented by John Marburger, President Bush's Science Advisor. Founded in 1991, their programs have touched the lives of more than 2,500 women. Founding co-chairs Nancy Leveson and Maria Klawe shared CRA's 2004 Habermann Award for establishing CRA-W. CRA's February academic careers workshop for soon-to-graduate Ph.D. students and new faculty, organized by Lori Clarke, was oversubscribed with 101 participants. The next workshop will be in February 2006.

Information: CRA's electronic news bulletin has been resumed; to subscribe, visit http://www.cra.org/cra-bulletin/home.html. The Computing Research Policy Blog came on-line: visit http://www.cra.org/govaffairs/blog/index.php for the latest news on congressional appropriations for computing research, hearings, CRA testimony, and other policy events in Washington, DC.

Policy: CRA's Grand Research Challenges in Information Security and Assurance Conference, chaired by Gene Spafford and co-chaired by Rich DeMillo, established a research agenda that has been presented to the research community, Congress, and the press. Recommendations from our workshop report, "Road Map for the Revitalization of High End Computing," chaired by Dan Reed, became a part of the HPCC revitalization plans issued by the White House Office of Science and Technology Policy. CRA Board members Lazowska, Reed, and Spafford testified before Congress six times: when CRA speaks, people listen.

Despite the weak economy and the slowdown in undergraduate CS enrollments, CRA membership grew slightly from 240 to 243 (219 academic departments and 24 labs and centers).

We thank our retiring board members for their dedicated service to CRA and the community: IEEE CS representative Doris Carver (Louisiana State), Barbara Grosz (Harvard), Jim Horning (McAfee Research, NAI), Dave Waltz (Columbia), and Ed Lazowska (University of Washington). Ed has served four terms, and was my predecessor as board chair (1997-2001).

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

CRA's Government Affairs Committee has continued its efforts to position CRA as the "organization of record" for issues of relevance to the computing research community. Over the past year, CRA members have testified before House and Senate committees six times on topics including cyber security R&D, federal IT R&D funding, and the current state of high-end computing. In addition, CRA has been asked to brief Congress and members of the Administration on a range of topics relevant to computing research, including DARPA and IT R&D, the current state of basic research at the Department of Defense, the participation of women and minorities in computing research, and the "chilling effect" that some copyright legislation has on research.

In addition, the committee has stepped up its efforts to provide policy resources for the computing community. CRA's *Computing Research Policy Blog*, launched in February 2004, appears to be a popular resource. The committee's analysis of computing research in the President's FY 2005 budget continues to be a useful reference for policymakers and the science policy community. And the committee has produced a series of one-page advocacy documents for CRA members and others to use whenever they have the opportunity to make the case for computing research.

INFORMATION ACTIVITIES

As a further step in its initiative to increase CRA's visibility among constituent groups, the Communications Committee created a project to provide information about CRA's activities to member departments for distribution to new faculty members, beginning in fall 2004. Additional progress was made last year on improving the website to facilitate access for faculty, students, and others.

CRA conducted the 33rd annual *Taulbee Survey* of Ph.D.-granting CS&CE departments. Board members and staff responded to a sharp increase in requests to provide statistical information about student enrollments in CS and CE due to concerns about offshoring. The annual *Salary Survey of Computer Science Researchers in Industrial Laboratories* was once again conducted last fall.

In December 2003, CRA published the report *Workshop on the Road Map for the Revitalization of High End Computing*, outlining the results of an earlier workshop sponsored by NITRD. A new "best practices" memo on "University-Industry Sponsored Research Agreements" was published in September. *Computing Research News*, the new *Computing Research Policy Blog*, and CRA's electronic bulletin, *CRB* — along with regular e-mail communications to chairs of 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

The Committee on the Status of Women in Computing Research (CRA-W) experienced an exceptional year with innovative new projects, continued growth in its successful ongoing programs, and recognition of its activities through a Presidential Award for Excellence in Science, Mathematics, and Engineering Mentoring. Funding was provided by CRA, the National Science Foundation, USENIX, Microsoft Research, The Henry Luce Foundation, ACM SIG Project Fund, Lucent Technologies, and EOT-PACI.

CRA-W's Distributed Mentoring Project (DMP) continued to see an increased demand from both undergraduate student applicants and potential mentors. Forty-five students were matched with twenty-eight mentors for a summer research experience. The DMP was expanded to allow new modes of funding and broader participation. The Collaborative Research Experiences for Undergraduates (CREU) was expanded to encourage students from all underrepresented groups to engage in collaborative research projects during the academic year. A new Graduate Cohort Program was designed to improve the graduate school experience and retention of women graduate students. It began with a mentoring workshop for 102 first-year students with follow-up activities planned. The new Cohort for Associate Professors Project (CAPP) brought together newly tenured women and distinguished full professors in a successful mentoring workshop to discuss advanced career development and leadership roles.

CRA's awards programs once again recognized outstanding contributions to the community. Maria Klawe, Princeton University, and Nancy Leveson, MIT, jointly received the 2004 *A. Nico Habermann Award* for their role as founding co-chairs of the highly successful CRA-W Committee. In addition, awards were made to the following undergraduates for their outstanding research potential: Winners: Thuc Vu, Carnegie Mellon University, and Anna Cavender, University of Oregon; Runners-up: Ethan Eade, Duke University, and Heather Wake, University of South Carolina. Seven students were selected as Finalists, and a number were cited for Honorable Mention. Mitsubishi Electric Research Labs sponsored the undergraduate awards last year.

The Coalition to Diversify Computing (CDC, http://www.cdc-computing.org), a joint committee of the ACM, CRA, and IEEE Computer Society, has recently named Patricia Teller, an Associate Professor in the Department of Computer Science at The University of Texas at El Paso, as its new Chair, effective July 1, 2004. In October 2003, CDC organized the very successful Richard Tapia Celebration of Diversity in Computing Conference in Atlanta. Preliminary planning is under way for the next conference, scheduled for Albuquerque, NM, in October 2005. CDC has continued its project of Sending Students and Mentors to Technical Conferences; the next deadline is in September 2004. In addition, CDC is working with CRA-W to expand its highly successful CREW project to include minorities. The new initiative, called CREU, is funded by the National Science Foundation and is now under way.



COMMUNITY-BUILDING

CRA's Grand Research Challenges Conference on Information Security and Assurance was held in November 2003, supported by the National Science Foundation. It was followed by a panel discussion on Capitol Hill and a press briefing at the National Press Club.

For the 10th year, CRA hosted the 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.

Two *Distinguished Service Awards* were given by CRA to David Clark, MIT Computer Science and Artificial Intelligence Laboratory, and Barbara Simons, ACM Past-President and USACM Co-Chair.

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.

Affiliate and Labs/centers members

THE FOLLOWING ORGANIZATIONS HELD MEMBERSHIP IN CRA FOR ALL,

OR IN A FEW CASES PART, OF THE PERIOD JULY 2003 TO JUNE 2004

AFFILIATE PROFESSIONAL SOCIETIES

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

LABS AND CENTERS

Los Alamos National Laboratory

Accenture Technology Labs
Avaya, Inc.
Computer Science Research Institute at Sandia National Labs
Fraunhofer CRCG, Inc.
Fujitsu Laboratories of America
Hewlett-Packard Co.
Honda R&D Americas, Inc.
IBM Research
IDA Center for Computing Sciences
Intel Corp.
Lawrence Berkeley National Laboratory

IEEE Computer Society Society for Industrial and Applied Mathematics USENIX Association

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





academic members



THE FOLLOWING DEPARTMENTS HELD MEMBERSHIP IN CRA FOR ALL,

OR IN A FEW CASES PART, OF THE PERIOD JULY 2003 TO JUNE 2004

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
Carnegie Mellon University • ECE
Case Western Reserve University • EECS
City University of New York, Grad. Ctr • CS
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 Iowa State University • CS Johns Hopkins University • CS Johns Hopkins University • SI Juniata College • IT Kalamazoo College • MCS Kansas State University • CIS Kent State University • CS Lehigh University • CSE Lehigh University • CSE
Long Island University • ICS
Louisiana State University • CS
Loyola University, Chicago • CS
Massachusetts Institute of
Technology • EECS
Miami University • CS
Michigan State University • CS
Michigan Technological University • CS
Mississing State University • CS Mississippi State University • CS Montana State University • CS Naval Postgraduate School • MOVES/CS National University of Singapore • CS/IS Naval Postgraduate School • CS New Jersey Institute of Technology • CCS

New Mexico State University • CS New York University • CS North Carolina State University • CS Northeastern University • CIS Northwestern University • ECE Oakland University • CSE Ohio State University • CIS Ohio University • EECS
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 Roosevelt University • CS&T
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 Tufts University • CS Tulane • EECS University at Buffalo • CSE University at Buffalo • IS University at Buffalo • IS
University of Alabama, Birmingham • CIS
University of Alabama, Tuscaloosa • CS
University of Alberta • CS
University of Arizona • CS
University of Arizona • CS
University of Arkansas at Little Rock • I
University of California, Berkeley • EECS
University of California, Berkeley • IMS
University of California Davis • CS University of California, Davis • CS University of California, Irvine • ICS University of California, Los Angeles • CS University of California, Riverside • CSE University of California, San Diego • CSE University of California, Santa Barbara • CS University of California, Santa Cruz • CE University of California, Santa Cruz • CE
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 • CIS 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 • EECS University of Kentucky • CS University of Louisiana at Lafayette • CACS University of Louisville • CECS University of Maine • CS University of Manitoba • CS University of Maryland • CLIS University of Maryland • CS University of Maryland, Baltimore Co • CSEE University of Massachusetts, Amherst • CS University of Michigan • EECS University of Michigan • I University of Michigan, Dearborn • CIS University of Minnesota • CSE University of Mississippi • CIS University of Missouri, Rolla • CS University of Montana • CS University of Nebraska, Lincoln • CSE University of Nebraska, Omaha • CS/IST University of Nevada, Las Vegas • CS University of Nevada, Reno • CS University of New Brunswick • CS University of New Hampshire • CS University of New Mexico • ECE University of North Carolina at Chapel Hill • CS University of North Carolina, Charlotte • IT University of North Dakota • CS University of North Texas • CS University of Notre Dame • CSE University of Notre Dame • CSE
University of Oregon • CIS
University of Pennsylvania • CIS
University of Pittsburgh • CS
University of Pittsburgh • IS
University of Puget Sound • MCS
University of Poetson • CS University of Rochester • CS University of South Alabama • CIS University of South Carolina • CSE University of South Florida • CSE University of Southern California • CS University of Tennessee, Knoxville • CS University of Texas, Arlington • CSE University of Texas, Austin • CS University of Texas, Austin • CS
University of Texas, El Paso • CS
University of Texas, El Paso • CS
University of Toledo • EECS
University of Toronto • CS
University of Tusa • MCS
University of Utah • CS
University of Virginia • CS
University of Washington • CSE
University of Washington • L 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 • EECS University of Wyoming • CS Utah State University • CS Vanderbilt University • EECS Virginia Commonwealth University • CS Virginia Tech • CS Wake Forest University • CS Washington State University • EECS 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

CRA financial statement

JULY 2003-JUNE 2004



Expenses (\$2,076,955)*

Admin/Member services • \$500,964 • 24% ······

Operating Reserve • \$50,000 • 2.5% ······

Government Affairs • \$182,963 • 9% ·····

Communications • \$208,514 • 10% ······

Women & Minorities • \$816,953 • 39.5% ··

Other Programs • \$296,129 • 14%

Miscellaneous • \$21,432 • 1%

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 2005.

cash position

AS OF JUNE 30, 2004

Unrestricted Funds FY 2004	\$207,799
Unrestricted Funds FY 2005	147,607
Accounts Receivable	138,370
Restricted (projects)	90,278
Restricted (operating reserve)	583,521
Total	\$1,167,575

 $^{^{\}ast}$ This does not include an additional \$110,000 of program support for CRA's women and minorities programs that comes directly from EOT-PACI.

Board of pirectors

AS OF JUNE 30, 2004

BOARD OFFICERS

James D. Foley, *Chair* • Georgia Institute of Technology Janice Cuny, *Vice Chair* • University of Oregon Kathleen McKeown, *Secretary* • Columbia University Philip Bernstein, *Treasurer* • Microsoft Research

BOARD MEMBERS

William Aspray Indiana University

Randy Bryant Carnegie Mellon University

Doris Carver (until 2/04)

Louisiana State University

(IEEE Computer Society representative)

Lori Clarke

University of Massachusetts, Amherst

Carla Ellis

Duke University

Timothy Finin

University of Maryland, Baltimore County

(AAAI representative)

Oscar Garcia (as of 2/04) *University of North Texas*

(IEEE Computer Society representative)

Barbara Grosz Harvard University

James Horning

McAfee Research, NAI

Leah Jamieson

Purdue University

Michael Jones

Microsoft Research

(USENIX representative)

John King

University of Michigan

Edward Lazowska

University of Washington

Guylaine M. Pollock

Sandia National Laboratories (IEEE Computer Society representative) Daniel Reed

University of North Carolina at Chapel Hill

Robert Schnabel

University of Colorado at Boulder

(SIAM representative)

Marc Snir

University of Illinois, Urbana Champaign

Lawrence Snyder

University of Washington

Mary Lou Soffa

University of Pittsburgh

Eugene Spafford

Purdue University

(ACM representative)

Alfred Spector IBM Corp.

John Stankovic

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Frank Tompa

University of Waterloo

(CACS/AIC representative)

Moshe Vardi

Rice University

Jeffrey Vitter

Purdue University

David Waltz

Columbia University

Richard Waters

Mitsubishi Electric Research Labs

Elaine Weyuker

AT&T Labs - Research

Stuart Zweben

Ohio State University

(ACM representative)

CRA staff

AS OF JUNE 30, 2004

Andrew Bernat Peter Harsha Dana Neill Susanne Pile Carla Romero Jean Smith Jay Vegso Executive Director
Director of Government Affairs
Business Manager
Administrative Assistant
Director of Programs
Senior Communications Associate
Manager of Membership & Information Services

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