Computing Research Association

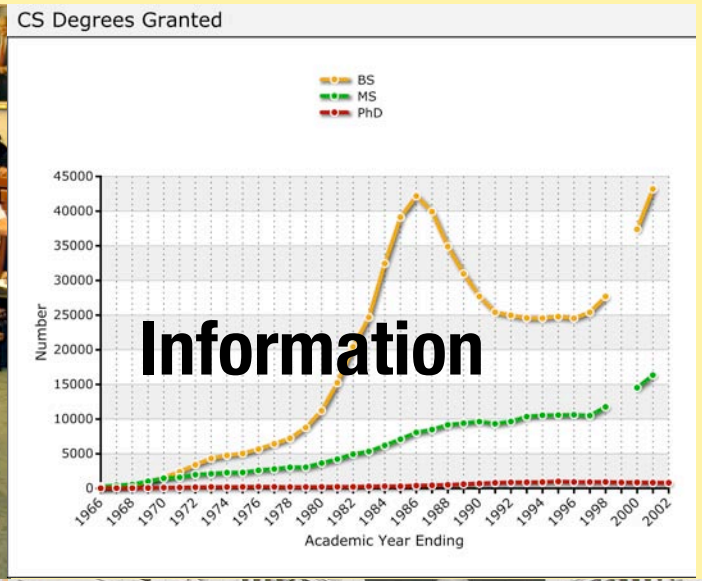
Snowbird 2004

CRA Finances are Strong

- Growing membership
- Stable revenue
- Sufficient reserves

CRA Does

Policy


CS Degrees Granted
BS
MS
PhD
Number
45000
40000
35000
30000
25000
20000
15000
10000
5000
0
1966
1968
1970
1972
1974
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1978
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1982
1984
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1988
1990
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1994
1996
1998
2000
2002
Academic Year Ending
Information

Human Resources

Community
CRA Grand Challenges in Information Security and Assurance
November 16-19, 2003

Computing Research Association
Mission Areas

Policy	Information Gathering and Dissemination
IT Research Funding and Research Environment Tracking Budgets Educating Members on Advocacy CRAN (advocacy network) Testimony Submissions to Congressional Committees Policy Reports Workforce Policy Issues Related to Women and Minorities News Conferences Congressional Visits Publications Policy blog Website	*Computing Research News (CRN)* Computing Research Bulletin Surveys—Taulbee, Profiles, Lab Salaries CRA Best Practices Reports Forsythe List/Address Labels CRA-W Careers Booklet CRA-W Graduate School Information Guide Publications Brochures Annual Reports Websites—CRA, CRA-W, CDC Conferences, Workshops
Human Resources	**Community Building**
Job Service Workforce Issues Academic Careers Workshop CRA-W Support CRA-W/Lucent Distinguished Lecture Series CRA-W Distributed Mentor Project CRA-W Career Mentoring Workshops CRA-W Collaborative Research Experiences for Undergraduates (CREU) CRA-W Grad Cohort Program CRA-W Cohort for Associate Professors Project CRA-W Recruitment and Retention Report Recruitment and Retention of Women in CS&E Graduate Programs Study CRA-W "Expanding the Pipeline" Column in *CRN* CDC Support CDC Recruitment and Retention Report Sessions at Snowbird CDC Tapia Conference Outstanding Undergraduate Awards A. Nico Habermann Award CRA-W Anita Borg Early Career Award	CRA Conference at Snowbird (biennial) Computing Leadership Summit Lab Directors Regional Meetings IT Deans Meetings CRA Membership Activities Distinguished Service Award External Awards Industry-University Relations Industry-University Model Agreements Grand Challenges Conference CRA-W/Lucent Technologies Distinguished Lectures Conferences, Workshops

CRA Does Computing Research Policy

The blog

Computing Research Policy Blog
http://www.cra.org/govaffairs/blog/index.php
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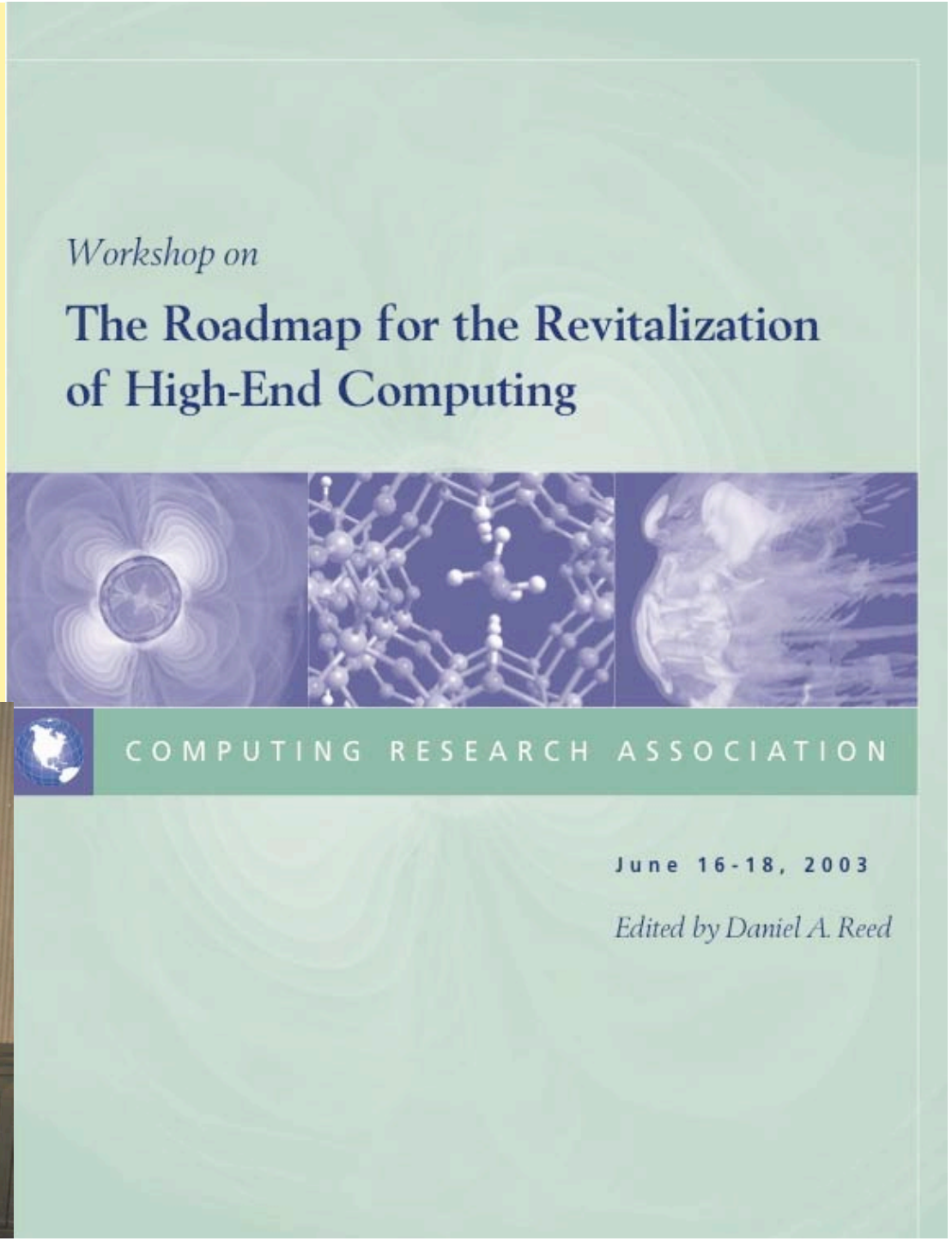
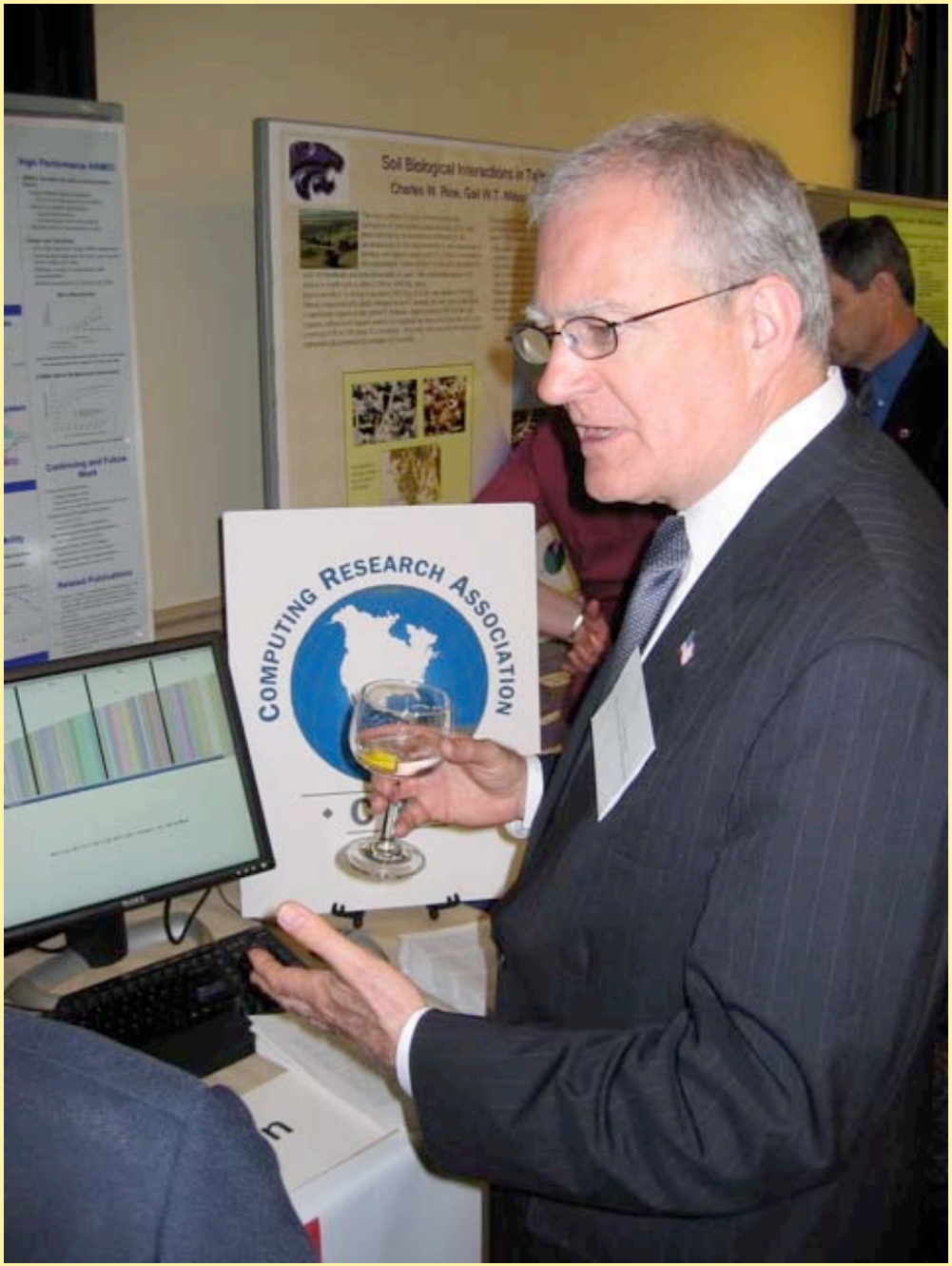
June 2004
May 2004
April 2004
March 2004
February 2004
January 2004
RECENT ENTRIES
Sci Com to hold E-voting Hearing Thursday
Pics from the CNSF Science Exhibition on Capitol Hill
Senate Hearing on High End Computing at DOE
DMCA Reform Gathering Momentum?
Latest PITAC Highlights
JUNE 23, 2004
SCI COM TO HOLD E-VOTING HEARING THURSDAY
The House Science Committee will hold a hearing on testing and certification for voting equipment. Here's an early version of the hearing charter.
Posted by PeterHarsha at 08:16 PM | TrackBack (0)
PICS FROM THE CNSF SCIENCE EXHIBITION ON CAPITOL HILL
CRA joined 31 other scientific societies and universities yesterday in showing off the results of NSF-sponsored research at the 10th annual Coalition for National Science Funding Science Exhibition and Reception on Capitol Hill. CRA was ably represented at the event by DK Panda and his students (Jiuxing Liu, Pavan Balaji, Ranjit Noronha, and Sayantan Sur) from The Ohio State University, who presented work on software that allows high performance, scalable communication using the InfiniBand networking technology.
The Exhibition was a great opportunity for making the general case for federal support of basic research, especially at NSF. This year's event was widely-attended. Many key congressional staffers, influential Members of Congress, and important members of the Administration and NSF took time out of their schedules to see the exhibits. Here's the proof! (click for larger images)
The CRA booth. Underneath the table were four

When CRA Talks, People Listen

CRA Organizes Workshops that Drive Policy





Everyone gets advice from

COMPUTING RESEARCH ASSOCIATION

CRA

CRA Does Computing Research Information

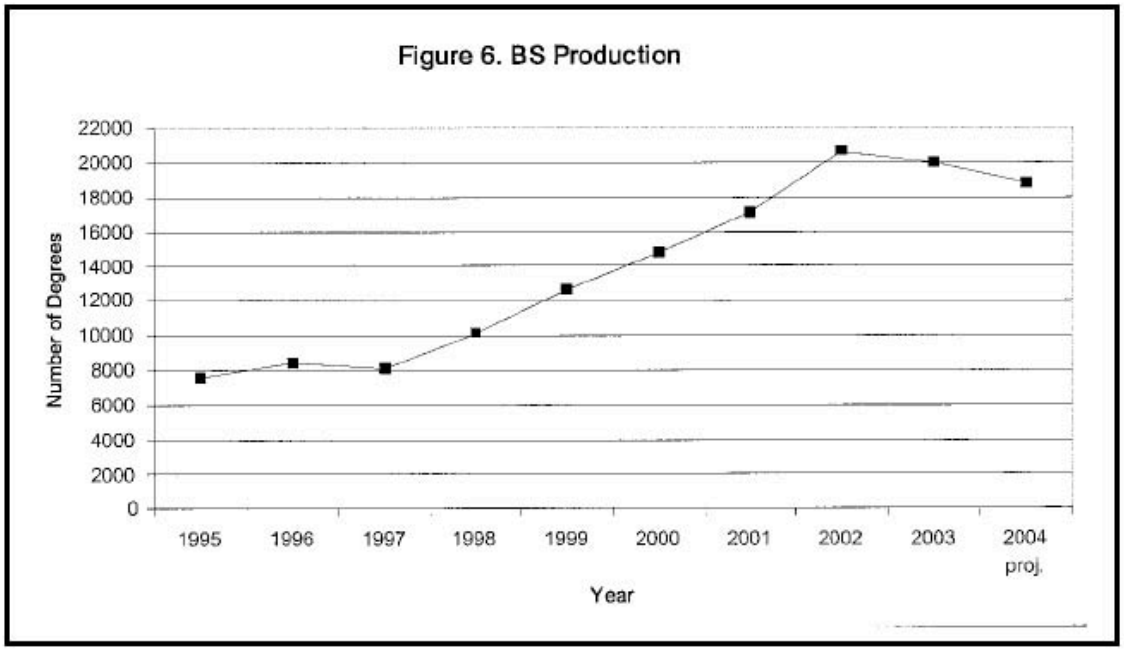
Table 1. Base Salaries in Industrial Research Labs by Years of Post-Ph.D. Experience (thousands of dollars)

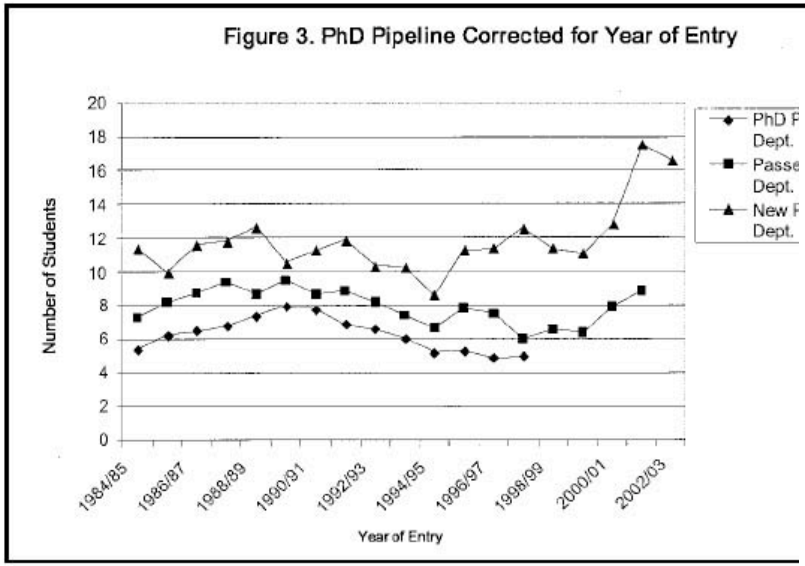
	2001		2002	
	Median	Mean	Median	Mean
New PhD	97.5	98.8	99.7	99.5
1-5 Years	105.2	107.1	110.4	112.9
6-10 Years	124.3	126.3	129.9	132.2
11-15 Years	134.2	134.3	140.8	141.7
16+ Years	138.0	139.3	147.1	147.5

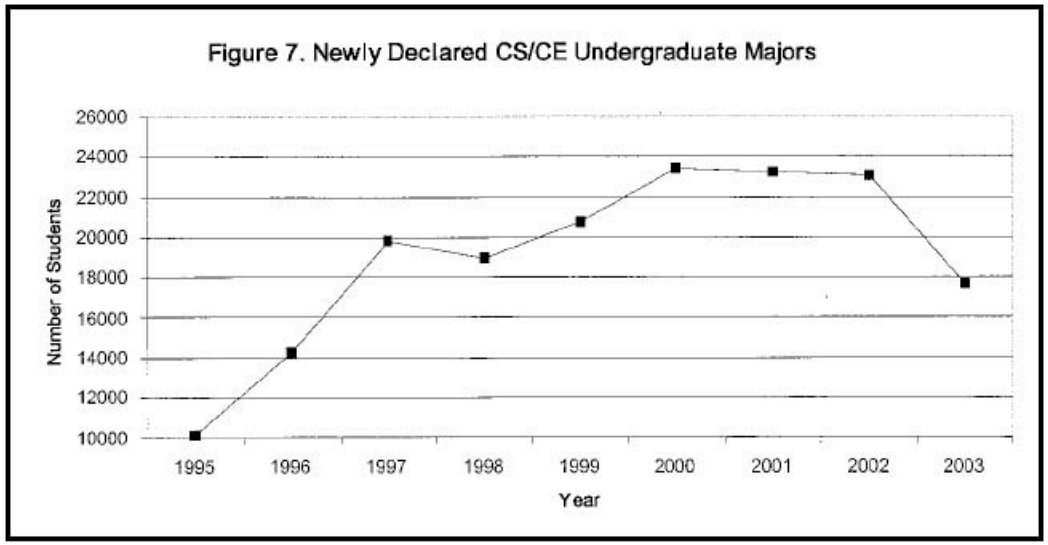
Table 2. Total Cash Compensation* by Years of Post-Ph.D. Experience (thousands of dollars)

	2001		2002	
	Median	Mean	Median	Mean
New PhD	105.7	107.1	105.7	103.2
1-5 Years	113.1	114.9	117.1	120.6
6-10 Years	133.6	136.5	139.8	143.6
11-15 Years	143.7	145.0	151.1	152.8
16+ Years	147.2	150.2	157.3	159.0

* Total Cash Compensation is base salary plus additional cash (e.g., bonus) items.







COMPUTING RESEARCH NEWS

A Publication of the Computing Research Association

May 2004 Vol. 16/No. 3

An Overview of Past and Projected Employment Changes in the Professional IT Occupations

By John Sargent

U.S. Department of Commerce

Professional information technology (IT) occupations have experienced both rapid growth and, most recently, higher-than-average job losses.

Professional IT occupations provided the lion's share of science and engineering job growth during the period 1991-2001. Computer system analysts and scientists and computer programmers together accounted for 79.4 percent of job growth in the science and engineering occupations during this period; if one also adds electrical/electronic engineers (many of whom are IT professionals), the total rises to 93.1

and indirectly—and their importance to U.S. competitiveness, economic growth, and innovation, policymakers have focused attention on understanding this key labor market and the challenges associated with both rapid job growth and recent job losses in these occupations.

Accordingly, since the mid-1990s the U.S. Department of Commerce's Office of Technology Policy (OTP) has conducted extensive analysis of the characteristics of the IT workforce, the dynamics of the IT labor market, the IT education and training landscape, and potential policy implications.[2] This article presents an overview of OTP's analysis of IT occupational employment changes between 1990 and 2002, as well as OTP's analysis of the Department of Labor's Bureau of Labor Statistics' (BLS) projections for IT occupational growth through 2012. IT

Population Survey (CPS), a product of the U.S. Department of Commerce's Census Bureau and BLS, and 2) the Occupational Employment Statistics (OES) survey, a BLS product.

These surveys used separate and distinct occupational classifications. In addition, the survey methodologies differ significantly; for example, CPS data are acquired through a survey of households, while OES data are derived from a survey of companies. As a result, the CPS and OES surveys arrive at different aggregate numbers for the IT workforce and thus are not directly comparable. Still, both surveys provide insight into the dynamics of the labor market for professional IT workers.

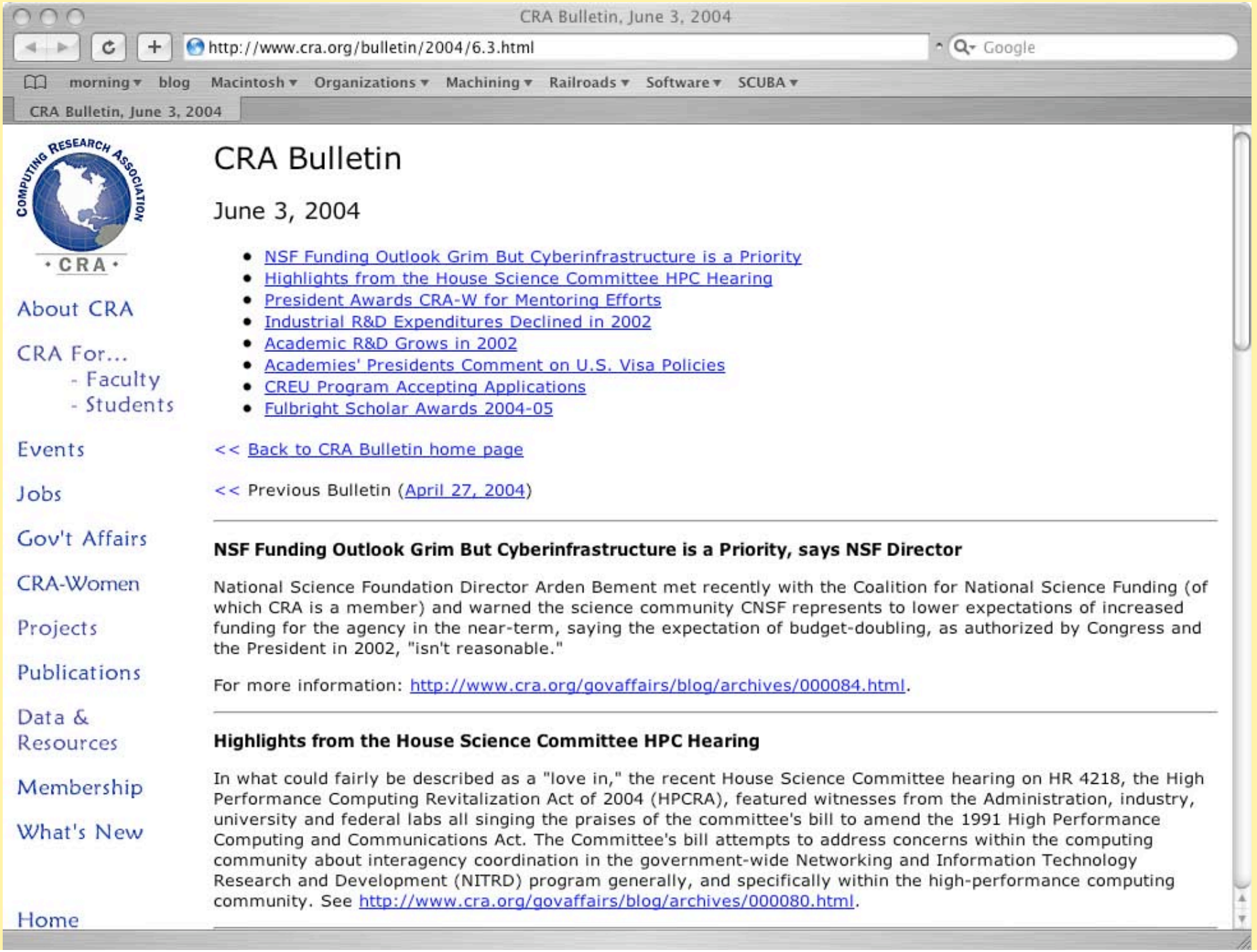
SNOWBIRD 2004

A Decade of Strong Employment Growth

Rapid advances in digital technologies and their widespread deployment throughout the economy fueled explosive growth in the demand for workers skilled in the development and use of information technology. Between 1990 and 2000, CPS data show that the number of jobs in professional-level IT occupations doubled, expanding from 1.2 million to 2.5 million. This translates into an annual growth rate[3] of 7.2 percent for these IT occupations, compared with 1.3 percent for all occupations during the same period.

Recent Losses in IT Occupational Employment

The IT occupational employment picture has been quite different since 2000. Between 2000 and 2002, OES


CRA Bulletin, June 3, 2004
http://www.cra.org/bulletin/2004/6.3.html
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Machining
Railroads
Software
SCUBA
CRA Bulletin, June 3, 2004
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June 3, 2004
NSF Funding Outlook Grim But Cyberinfrastructure is a Priority
Highlights from the House Science Committee HPC Hearing
President Awards CRA-W for Mentoring Efforts
Industrial R&D Expenditures Declined in 2002
Academic R&D Grows in 2002
Academies' Presidents Comment on U.S. Visa Policies
CREU Program Accepting Applications
Fulbright Scholar Awards 2004-05
<< Back to CRA Bulletin home page
<< Previous Bulletin (April 27, 2004)
NSF Funding Outlook Grim But Cyberinfrastructure is a Priority, says NSF Director
National Science Foundation Director Arden Bement met recently with the Coalition for National Science Funding (of which CRA is a member) and warned the science community CNSF represents to lower expectations of increased funding for the agency in the near-term, saying the expectation of budget-doubling, as authorized by Congress and the President in 2002, "isn't reasonable."
For more information: http://www.cra.org/govaffairs/blog/archives/000084.html.
Highlights from the House Science Committee HPC Hearing
In what could fairly be described as a "love in," the recent House Science Committee hearing on HR 4218, the High Performance Computing Revitalization Act of 2004 (HPCRA), featured witnesses from the Administration, industry, university and federal labs all singing the praises of the committee's bill to amend the 1991 High Performance Computing and Communications Act. The Committee's bill attempts to address concerns within the computing community about interagency coordination in the government-wide Networking and Information Technology Research and Development (NITRD) program generally, and specifically within the high-performance computing community. See http://www.cra.org/govaffairs/blog/archives/000080.html.

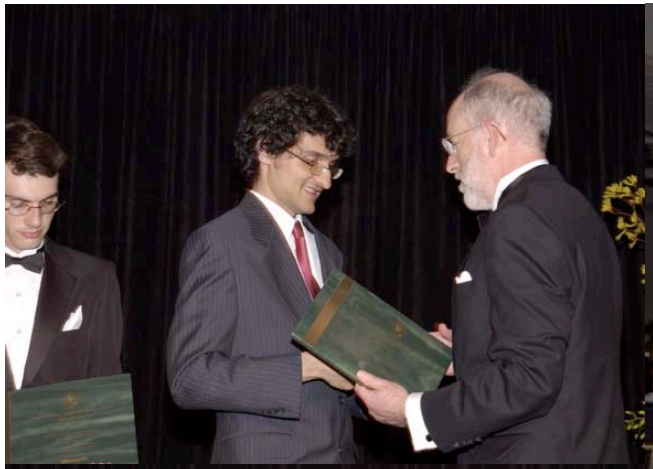
CRA Does
Computing Research
Human Resources

Tapia 2003

CAPP

Grad Cohort

CRA-W



2003

Undergraduate

Awardees

2004 Undergraduate Awardees

Thuc Vu - CMU

Anna Cavender - U. Oregon

Ethan Eade - Duke

Heather Wake - U. South Carolina

CRA Does
Computing Research
Community Building

Grand Challenges Conferences

•NSF CISE RI/MII PI's Workshop
•IEEE-CS Focus Meeting
•CRA Board Meeting
•New Chairs Workshop
•Snowbird Conference
•CDC Executive Committee Meeting
•IT Deans Meeting

All brought to you by the Board, the Volunteers and the Staff

The State of CRA is, indeed, good