



FEDERAL NETWORKING & IT RESEARCH OPPORTUNITIES FY 2004

OCTOBER 1-3, 2003 • HYATT REGENCY ON CAPITOL HILL • WASHINGTON, DC



AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE





Computing Research Association

Computing Research Association

- Members
 - 200 university departments that offer the PhD in
 - Computer Science, Computer Engineering, Information Science etc
 - 25 Research labs
 - Mostly industrial, a few university and government labs
 - Six professional societies
 - American Association for Artificial Intelligence
 - Association for Computing Machinery
 - Canadian Association of Computer Science
 - IEEE Computer Society
 - Society for Industrial and Applied Mathematics
 - USENIX Association



Mission - Strengthen Research and Graduate Education in Computing

- Influence *policy* that impacts computing research
- Encourage development of *human resources*
- Contribute to cohesiveness of the professional *community*
- Collect and disseminate *information* about the importance and state of computing research



Policy

- 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
- CRA Women (CRA-W) Senior Leadership Development Seminar
- Digital Government Fellowship
- News Conferences
- Congressional Visits
- Publications
- Website





- World's largest federation of scientific and engineering societies
- More than 135,000 scientists, engineers, science educators, policymakers, and other interested citizens among its individual members
- Mission: To advance science and innovation throughout the world for the benefit of all people

AAAS

- Where science, government and society intersect:
- Center for Science, Technology and Congress
 - Briefings for congressional staff, newsletter, regional meetings
- Dialogue on Science, Ethics and Religion
 - Facilitate communication between scientific and religious communities
- Fellowships for Scientists and Engineers
- R&D Budget and Policy Program
- Research Competitiveness
 - Assists universities and other R&D institutions in enhancing their research capabilities
- Science and Human Rights
 - Application of scientific methods and techniques to the promotion of human rights worldwide
- Scientific Freedom, Responsibility and Law
 - Works to uphold high ethical standards for science and engineering

AAAS R&D Budget and Policy Program

- Studies and colloquia on funding and policy issues affecting federal support of R&D
- Annual Research and Development analysis each FY
 - Key resource for tracking the federal budget process and its impact on federal R&D
 - CRA contributes analysis on computing research
 - www.aaas.org/spp/rd/

The Problem

- Industrial research in computing is changing
 - There is less of it
 - It is shorter term
 - Consider: Bell Labs, IBM, Xerox PARC, NEC
- Federal funding is not closing the gap
- Short term - optimize what is there
- Long term - work to re-incentivize corporate investment and to increase federal investment

