

# The State of CRA



# Historical Footnotes

- 1972 Ohio State get together  
... and so it begins
- Rick Weingarten retires from ALA

# Old Offices



(with a thank you to Jim Foley)

# New Offices



1828 L St., NW, Washington, D.C. 20036

Microsoft®  
**Research**

IEEE  
Φ computer  
society

ca  
CA Labs

intel®



**USENIX**®  
THE ADVANCED COMPUTING SYSTEMS ASSOCIATION

**Google**™



at&t

**IBM**

 **MITSUBISHI  
ELECTRIC**  
*Changes for the Better*  
MITSUBISHI ELECTRIC RESEARCH LABORATORIES



U.S. DEPARTMENT OF  
**ENERGY**

Office of Science



Association for  
Computing Machinery

# **CRA's Professional Staff**

Andy Bernat

Betsy Bizot

Erwin Gianchandani

Peter Harsha

Kenneth Hines

Sabrina Jacob

Patrick Krason

Melissa Norr

Kapil Patnaik

Carla Romero

Jean Smith

Chase Hensel

Barbara Freel

Becky Boland

Elena Sheidu

# CRA's Mission

Strengthen research and education in the computing fields

- working to influence **policy** that impacts computing research
- encouraging the development of **human resources**
- contributing to the cohesiveness of the professional **community**
- and collecting and disseminating **information** about the importance and the state of computing research

# **CRA**

## **Programmatic Committees**

- **CDC —the Coalition to Diversify Computing**
- **CCC— the Computing Community Consortium**
- **CRA Deans Group**
- **CRA-E — CRA's Committee on Education**
- **CRA Government Affairs**
- **CRA-W — CRA's Committee on the Status of Women**



Richard  
**TAPIA**

**Celebration of  
Diversity in Computing  
April 3-5, 2011**



- Like Grace M. Hopper Conf. for Under-Represented Minorities
- 50% ♀, 40% Afr. Am., 30% Hisp.
  - Overcomes isolation: 82% said it reaffirms CS major, finish degree
- Chair: Dave Patterson, UCB
  - Keynote: Irving Wladawsky-Berger, IBM
  - Tapia Prize: Bill Wulf, UVA
  - Funds: Google, Intel, Microsoft

You can help

- Encourage URM/female undergrads/grads to apply for scholarships, posters
- Fund non-scholarship URM/female students  
(If send  $\geq 5 \Rightarrow$  get exhibit space, resume book)

[tapiaconference.org/2011](http://tapiaconference.org/2011)

Coalition to Diversify Computing is a joint organization of ACM, CRA, and IEEE/CS

# CRA's Computing Community Consortium



The Computing Community Consortium (CCC) is ...

- A standing committee of CRA
- Funded by NSF under a Cooperative Agreement
- Focused on empowering the computing research community to pursue more audacious research visions

CCC's activities include ...

- Activities to increase funding of computing research; community-initiated workshops to define new research directions; computing research white papers for the White House & others (*dozens, including the future of robotics, health IT, educational technology, IT for development, broadband infrastructure, the role of large-scale data analysis in all fields, IT and energy/sustainability, etc.*)
- Computing Innovation Fellows Project
- Computing Research Highlight of the Week
- Landmark contributions by students
- Library of Congress Symposium for policymakers



**GET INVOLVED!**

<http://www.cra.org/ccc>



# CRA-Education

CRA-E is forking

Mark 1.0

Chair: Andy van Dam

Exploring the issues of undergraduate education in computing and computational thinking for those who will do research in disciplines from the sciences to the humanities.

**White Paper highlighted here at Snowbird!**

Mark 2.0

Chair: Rich DeMillo

Exploring issues in undergraduate computing education relevant for computing researchers.

**Breakfast meeting to start the ball rolling.**



# **CRA-E Report on Basic Computing Knowledge**

**Andy van Dam**

**Tuesday 10:30AM**

**(Ballroom 2)**

Exploring the issues of undergraduate education in computing and computational thinking for those who will do research in disciplines from the sciences to the humanities.

The overall goal of this white paper is to provide guidance that will help institutions create an undergraduate environment that supports the acquisition and internalization of the computationally- oriented researcher mindset.

To achieve this, we identified two sub-goals:

1. identify the issues facing faculty charged with educating computationally-oriented researchers in the first part of the 21st century
2. make recommendations that address those issues and that are both relevant and implementable within the current institutional context.

# CRA-E 2010-11

- Successor to van Dam Committee
- Chair: Rich DeMillo (rad@gatech.edu)
- Vision: Create synergies between undergraduate education and computing research
- Mission
  - Take ownership for the research pipeline and promote its health
  - Provide a window on computing research frontiers for computing education organizations
  - Identify research advances that might affect computing education
  - Represent the interests of the computing research community as education policy and curriculum initiatives are developed.
- Priorities Under Discussion
  - Create research pipeline health dashboard
  - Understand and help non-doctoral institutions
  - Understand role played by undergraduate research
  - Tools for preparing undergraduates for research careers
- WHAT WE NEED NOW
  - Help
    - CRA Engagement Board Members
    - Society and Committee Liaisons
  - Ideas
    - Prizes
    - Symposia
    - Books
- Look for online community

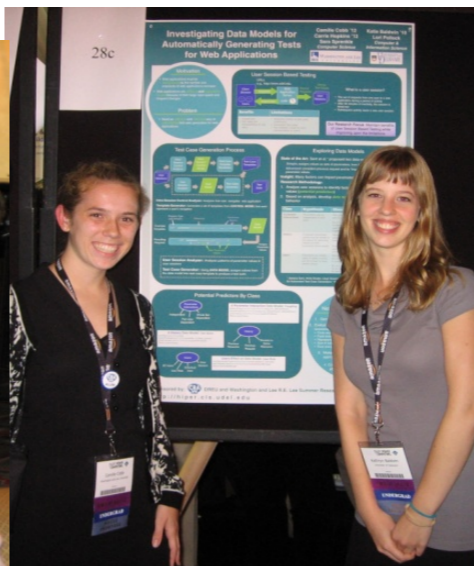


[www.cra-w.org](http://www.cra-w.org)

# CRA-W

**Focuses on increasing the number and success of women in computing research through the following programs and activities:**

- For Undergraduates (CREU, DREU, Distinguished Lecture Series, Extended Mentoring)
- For Graduate students (Grad Cohort, Discipline-Specific Workshops)
- For Faculty and Industry Researchers (Career Mentoring Workshops, Travel Grants, Borg Early Career Award)
- Communications (Expanding the Pipeline Column, CRA-W Newsletter, listservs, mailing lists, publications)
- Alliances (Broadening Participation, CDC, NCWIT, Grace Hopper, STARS)



# **CRA Status Report**

## **The Bottom Line**

Financially stable

Membership dues and Snowbird fees held constant

Activities are growing

Participation is growing

Influence is growing

You're here!

# **Financial activity overview**

**\$7.5 million in expenditures**

**\$340K in corporate donations**

**35% indirect rate**



# CRA Hot Issues

- Ranking of PhD programs
- NSF's Broader Impact criterion

# How important is CRA?

Peter Lee takes CRA staff to lunch

He learns about Trapster

Peter joins DARPA

DARPA embraces social networks



Peter Lee briefs  
Secretary Gates



Dugan briefs Congress

# Doing Your Part

Fill out the online Snowbird evaluation!

Keep informed - read the blogs!

Explore our website!

If you have issues, let us hear from you!

[abernat@cra.org](mailto:abernat@cra.org)

# Looking Forward

Snowbird 2012

July 22-24, 2012

CRA's 40th Anniversary