![CCC] **Computing Community Consortium**

We support the computing research community in creating compelling research visions and the mechanisms to realize these visions.

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SPECIAL FEATURE

LIBRARY OF CONGRESS

Computing Research that Changed the World: Reflections and Perspectives

March 25, 2009 | 8:45 am - 5:00 pm | Members' Room, Thomas Jefferson Building, Library of Congress

Slides by Session   Demonstrations

Introductory Session

Ed Lazowska
(UNIVERSITY OF WASHINGTON)

Introduction: Changing the World

One Page Summary

Slides - 992 KB

YouTube Video (19:41)

Video Download - 181 MB

Bio

This invitation-only symposium, "Computing Research that Changed the World: Reflections and Perspectives," was organized by Computing Community Consortium in collaboration with **Congressman Bart Gordon (D-TN)**, **Congressman Ralph Hall (R-TX)**, **Congressman Daniel Lipinski (D-IL)**, **Congressman Vern Ehlers (R-MI)**, **Congressman Rush Holt (D-NJ)** and **Sen. Jay Rockefeller (D-WV)**. It was held at the Library of Congress on March 25, 2009.

The overall message of the symposium was that computing research has made game-changing advances in the last two decades, from which we can extract lessons for structuring future programs to sustain that track record.

The symposium featured four sessions: "**The Internet and the World Wide Web**," "**Evolving Foundations**," "**The Transformation of the Sciences via Computation**," and "**Computing Everywhere!**". Each session consisted of three talks and a short discussion that identified future challenges. These four sessions were followed by a discussion among all the speakers, with input from attendees, which framed a call-to-action for the future.

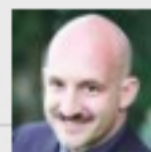## The Internet and the World Wide Web

Alfred Spector
(GOOGLE)

Why We're Able to Google

One Page Summary

Slides - 1.1 MB

YouTube Video (19:41)

Video Download - 181 MB

Bio

Eric Brewer
(UC, BERKELEY)

The Magic of the "Cloud": Supercomputers for Everybody, Everywhere

One Page Summary

Slides - 2.9 MB

YouTube Video (17:36)

Video Download - 227 MB

Bio

Luis von Ahn
(CARNEGIE MELLON)

Human Computation

One Page Summary

Slides - 1 MB

YouTube Video (11:50)

Video Download - 168 MB

Bio

Evolving Foundations

Barbara Liskov
(MIT)

Security of Online Information

One Page Summary

Slides - 208 KB

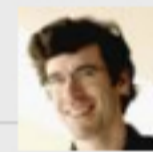YouTube Video (19:26)

Video Download - 256 MB

Bio

Daphne Koller
(STANFORD)

Learning to Improve Our Lives

One Page Summary

Slides - 4.7 MB

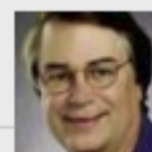YouTube Video (17:34)

Video Download - 256 MB

Bio

Jon Kleinberg
(CORNELL)

Global Information Networks

One Page Summary

Slides - 768 KB

YouTube Video (20:11)

Video Download - 340 MB

Bio

The Transformation of the Sciences via Computation

Larry Smarr
(UC, SAN DIEGO)

Supercomputers and Supernetworks are Transforming Research

One Page Summary

Slides - 1.5 MB

YouTube Video (14:38)

Video Download - 258 MB

Bio

Chris Johnson
(UNIVERSITY OF UTAH)

Computing and Visualizing the Future of Medicine

One Page Summary

Slides - 3.3 MB

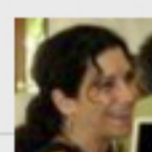YouTube Video (16:03)

Video Download - 261 MB

Bio

Gene Myers
(HHMI, JFRC)

Zooming In On Life

One Page Summary

Slides - 3.5 MB

YouTube Video (18:09)

Video Download - 267 MB

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Computing Everywhere!

Deborah Estrin
(UC, LOS ANGELES)

Sensing Everywhere!

One Page Summary

Slides - 2.5 MB

YouTube Video (18:23)

Video Download - 287 MB

Bio

Pat Hanrahan
(STANFORD)

Pixels Everywhere!

One Page Summary

Slides - 2 MB

YouTube Video (22:06)

Video Download - 391 MB

Bio

Rodney Brooks
(HEARTLAND ROBOTICS)

Robots Everywhere!

One Page Summary

Slides - 2.1 MB

YouTube Video (17:39)

Video Download - 280 MB

Bio