

Impacts of Media Multitasking on Children's Learning & Development

Peter Wallenberg Learning Theater, Stanford University

July 15, 2009

8:30am – 9:00am **Continental Breakfast**

9:00am – 10:00am **Introduction & Welcoming Remarks**

Clifford Nass, Stanford University

Michael H. Levine, Joan Ganz Cooney Center at Sesame Workshop

Patricia Greenfield, UCLA

10:00am – 11:15am **Session 1. Cognitive and Social Effects of Media Multitasking**

During this session, we will discuss how media multitasking affects the development of neural structures in children's brains and cognitive development. How might growing up in a media-saturated environment that elicits habitual active and reactive attention switching affect children's information processing skills? How does media multitasking potentially impact focus and concentration? Why do children growing up in media-saturated environments tend to learn and engage in heavy multitasking faster and more frequently than their parents and grandparents?

Session Chair: Patricia Greenfield, UCLA

Panelists:

- *Daniel R. Anderson*
University of Massachusetts
- *Lori Bergen*
Marquette University
- *Stephanie M. Carlson*
University of Minnesota
- *Matthew Dye*
University of Rochester
- *Karin Foerde*
Columbia University
- *Ulrich Mayr*
University of Oregon
- *Cliff Nass*
Stanford University
- *Priti Shah*
University of Michigan
- *Anthony Wagner*
Stanford University

11:15am – 12:30pm **Session 2. Media Multitasking in Informal and Formal Learning Environments**

Studies indicate that creative application of knowledge associated with creativity and problem solving may be less likely to occur if information is learned under multitasking conditions. During this session, we will address questions such as: If multitasking engages a different form of memory, in which contexts might multitasking have positive and negative effects on learning? In which contexts are focus and concentration necessary for learning? How might increased interactivity, choice, and control afforded in multitasking situations enhance engagement and sustain attention?

Session Chair: Donald F. Roberts, Stanford University

Panelists:

- *Marilyn Jager Adams*
Brown University
- *Sandra L. Calvert*
Georgetown University
- *Ulla Foehr*
- *Glenda Revelle*
Sesame Workshop
- *Kaveri Subrahmanyam*
Cal State Los Angeles
- *Ellen Wartella*
UC Riverside

12:30pm – 1:30pm Lunch and Poster Session

During lunch, members from the NSF-funded Learning in Informal and Formal Environments (LIFE) Science of Learning Center and Stanford's Communication Between Humans and Interactive Media (CHIME) Lab will be on hand to discuss results from recent studies examining media multitasking impacts on learning in informal and formal contexts. In addition, all panel speakers and participants are invited to present relevant research.

1:30pm – 2:45pm Session 3. Designing Educational Tools that Leverage Media Multitasking and Multitaskers

As researchers elucidate underlying processes that support learning and cognitive development in media multitasking contexts and for media multitaskers, we can start to think about designing educational tools and curricula to promote effective uses of media multitasking among students, parents, and teachers.

Session Chair: Roy Pea, Stanford University

Panelists:

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|---|--|
| ➤ <i>Tico Ballagas</i>
Nokia | ➤ <i>Jim Gray</i>
LeapFrog Enterprises |
| ➤ <i>Richard Beckwith</i>
Intel | ➤ <i>Byron Reeves</i>
Stanford University |
| ➤ <i>Milton Chen</i>
George Lucas Educational Foundation | ➤ <i>Coe Leta Stafford</i>
IDEO |
| ➤ <i>Dennis Frezzo</i>
Cisco Systems | |

2:45pm – 3:00pm Break

3:00pm – 4:00pm Session 4. Building a Research Agenda: Funding & Policy Discussion

Experts from research funding and philanthropy agencies will comment on the key areas, questions, and issues for future research.

Session Chair: Michael Levine, Joan Ganz Cooney Center at Sesame Workshop

Panelists:

- | | |
|--|---|
| ➤ <i>Barbara Chow</i>
Hewlett Foundation | ➤ <i>Susan Schilling</i>
New Technology Foundation |
| ➤ <i>Rebecca Randall</i>
Common Sense Media | ➤ <i>Bernie Trilling</i>
Oracle Education Foundation |

4:00pm – 4:30pm Wrap Up

4:30pm – 5:30pm Wine Reception