



**Institute for Software Research**  
**University of California, Irvine**

**1st Annual Research Forum**

<http://www.isr.uci.edu/events/Research-Forum-2002/>

**Advance Program**

**June 18, 2002**  
**1:30 - 7:30 p.m.**

**McDonnell Douglas Auditorium, University of California, Irvine**

This annual event brings together researchers, leaders in industry, and technical practitioners in a multi-disciplinary environment to:

- + discuss current research areas and technical trends in the fields of software development and interactive collaborative technologies;
- + showcase current ISR research;
- + formulate visions on strategic future research and technological directions;
- + encourage interaction among academia and industry through exchange of ideas and sharing of experiences.

A major **goal** is to encourage collaborative research and technology transition.

**Themes.** This year's Forum focuses on joint industry/academia concerns in software architectures, applications, and the relationship between organizational structures and software systems.

**Program.** The program (included on reverse) features: a keynote presentation by Bill Dresselhaus, IDSA, President and Founder of Dresselhaus Design Group, Inc., and Author of the book ROI: Return On Innovation; panel discussions on

- + **Event-based Systems and Software Architectures: Out of the Shadows and into the Mainstream**
- + **The Challenge for Complex Organizations: Making Sense of Organizational Requirements**
- + **Recent Advances in Distributed Software Applications**

and an evening reception highlighted by ISR research project posters and demonstrations.

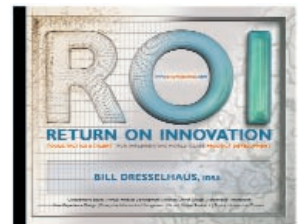


**Keynote:**

**"Collaboration, Innovation and Interactivity: the Power of Simulation and Software Design!"**

**Abstract:** Besides the current buzz in business and product development circles today about the desperate need for innovation and collaboration across the enterprise, customer-based market research and customer-based product design are also hot topics. There's a lot of talk about all of these essentials to success in business, but the hard part is actually doing them-walking the walk as well as taking the talk! Software engineers and designers have tremendous empowerment capabilities and potential to assist the "walking the walk" part for everyone from marketers to engineers to customers-via interaction and simulation design. Bill Dresselhaus, a veteran product engineer and industrial designer, will talk about how software designers can help everyone in an enterprise innovate and collaborate better, and, bottom line, develop better, more need-filling and wealth-building products and services than ever before. He will also elaborate on how software designers can collaborate with product designers and challenge both to learn from one another.

**Bio:** Bill Dresselhaus is a product engineer, industrial designer, and innovation facilitator. With a thirty-year career in design and development, he is known among his peers for his intense passion for design process, visualization, simulation, and what he calls Sensorization™. Bill earned an M.S. in chemical engineering from Iowa State and an M.S. in product design from Stanford. Combined with his recent advanced graduate studies in the Executive Program at Art Center College of Design, Bill functions in that place between the visual arts and engineering. He currently lives in Portland, Oregon, teaching, consulting, and developing information architecture for product development innovation.



**Registration** cost: \$75. Register on-line at the Forum web site.

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**Visit the ISR web site**  
<http://www.isr.uci.edu/>

# 1st Annual ISR Research Forum

## Advance Program

12:30 - 1:30	Registration
1:30 - 1:50	<b>Welcome and ISR Vision</b> Richard N. Taylor, Professor and Director of ISR
2:00 - 2:45	<b>Panel: Event-based Systems and Software Architectures: Out of the Shadows and into the Mainstream</b> Chair and Panelist: Richard N. Taylor, Professor and Director of ISR Panelists: Rohit Khare, Founder and CTO, KnowNow (on leave at UCI/ISR) David Rosenblum, Principal Architect, PreCache, Inc. (on leave from UCI/ISR) Nicolas Rouquette, Principal Software Architect, Jet Propulsion Laboratory (JPL)
3:00 - 3:45	<b>Panel: The Challenge for Complex Organizations: Making Sense of Organizational Requirements</b> Chair: Gloria Mark, ISR / UC Irvine Panelists: Mark Ackerman, ISR / University of Michigan Erin Bradner, ISR / UC Irvine Paul Dourish, ISR / UC Irvine Steve Poltrock, Technical Fellow, Boeing Phantom Works
4:00 - 4:45	<b>Panel: Recent Advances in Distributed Software Applications</b> Chair: Walt Scacchi, ISR / UC Irvine Panelists: Gregory Alan Bolcer, CTO, Endeavors Technology, Inc. Greg Johnson, Member of Technical Staff, Concept Shopping, Inc. (CSI) Scott Samuelsen, ISR / UC Irvine E. James Whitehead, ISR / UC Santa Cruz
4:45 - 5:30	<b>Keynote Address:</b> "Collaboration, Innovation and Interactivity: the Power of Simulation and Software Design!" Bill Dresselhaus, President, Dresselhaus Design Group, Inc.
5:30 - 7:30	<b>Reception at University Club (UClub) with Demonstrations and Posters</b>

### **Demonstrations and Posters (partial list)**

***TWICS - Two-Way Integrated Configuration Management and Software Deployment***

Student: Sundi Sowrirajan, Advisor: André van der Hoek

***Palantir - Distributed Awareness in Configuration Management***

Student: Anita Sarma, Advisor: André van der Hoek

***Ménage - Product Line Architectures***

Staff: Rob Egelink, Advisor: André van der Hoek

***ArchDiff - Architectural Differencing and Merging***

Student: Christopher Van der Westhuizen, Advisor: André van der Hoek

***Wren - An Environment for Deployable Components***

Student: Chris Luër, Advisors: André van der Hoek and David Rosenblum

***SimSE - A Simulation Environment for Software Engineering Education***

Student: Emily Oh, Advisor: André van der Hoek

***Problems and Programmers - Software Engineering Card Game***

Student: Alex Baker, Advisor: André van der Hoek

***Awareness Gauges***

Student: Santhoshi D. Basaveswara, Advisor: David Redmiles

***Collaborative Information Seeking***

Student: Madhu Reddy, Advisor: Paul Dourish

***Do Four Eyes See Better than Two? Collaborative versus Individual Discovery in Data Visualization Systems***

Student: Victor Gonzalez, Advisor: Gloria Mark and Alfred Kobsa

***Privacy as a Design Requirement***

Student: Zhaoqi Chen, Advisor: Alfred Kobsa

***The Ecology of Requirements: Initial System Design Using Requirements Engineering and Project Selection***

Student: Mark Bergman, Advisor: Gloria Mark

***DAV Explorer and WebDAV***

Student: Joachim Feise, Advisor: Richard N. Taylor

***Dynamic Adaptation of Architectures to Address Performance and Behavioral Constraints***

Student: Eric Dashofy, Advisor: Richard N. Taylor

***Identifying and Analyzing Dependencies in Component-based Systems***

Student: Marlon Vieira, Advisor: Debra J. Richardson

***Redundant Arrays of Independent Components***

Student: Chang Liu, Advisor: Debra J. Richardson

***Argus-I: Architectural Analysis***

Student: Marcio Dias, Advisor: Debra J. Richardson

***Software Architecture-based Analysis during the Life-cycle***

Visiting Researcher: Henry Muccini, Host: Debra J. Richardson

***SoftFlow: Visualizing the Evolution of Static Dependency Graphs***

Student: Jennifer Bevan, Advisor: E. James Whitehead

***Change Awareness for Space Mission Ground Operations Teams***

Student: Elias Sinderson, Advisor: E. James Whitehead