ISR EVENT SCHEDULE
Mark your calendars now!

Tuesday, June 3, 2003
2003 ISR Research Forum: Wave of the Future
Keynote speaker: Thomas W. Malone
Patrick J. McGovern Professor at the MIT Sloan School of Management
"The Future of Work and Processes"
1:30–7:30 p.m., McDonnell Douglas Auditorium
Evening reception with posters and demos at the new Calit2 building.
Graduate Student Research Forum: For Students By Students
9:00–1:00 p.m., CS 432
This special session, organized by ISR graduate students, features shorter poster presentations. It precedes the main Forum program.
Details are available at: http://www.isr.uci.edu/events/Research-Forum-2003/
ISR 2005-06 Distinguished Speaker series will be announced this summer.
For more information: http://www.isr.uci.edu/events.html

ISR PLAYS A LEAD ROLE IN UPCOMING CONFERENCES

November 7–13, 2003
Long Beach, California
General Chair: ISR Prof. David F. Redmiles
Webmaster: Jie Ren, Ph.D. student (R. Taylor, advisor)
Local Arrangements Chair: Debra A. Brodbeck, ISR Technical Relations Director
Treasurer: Klana Fallah, ISR Director of Operations
http://www.ase-conference.org/

May 20–28, 2004
ICSE 2004: 28th International Conference on Software Engineering
Shanghai, China
External Relations Director: Debra A. Brodbeck, ISR Technical Relations Director
Webmaster: Justin R. Erenkrantz, Ph.D. student (R. Taylor, advisor)
http://www.icse-conferences.org/2006/

ISR
The UCI Institute for Software Research is generously supported by:

The Aerospace Corporation
The Boeing Company
Fujitsu Laboratories, Ltd.
Intel Corporation
NASA Jet Propulsion Laboratory
Northrop Grumman

that communicate over high-latency net-works. ISR graduate student Justin Erenkrantz (R. Taylor, advisor) is studying how applications can take advantage of REST principles, making them more effective in a RESTful world. Two such applications are the popular Apache HTTP Server (on which Erenkrantz is a core developer) and a new client library called Serf, which he is designing from the ground up with RESTful principles. These architectural principles are also being leveraged in the larger context of software development methodology research. In collaboration with The Aerospace Corporation, ISR graduate students Michael Gorlick and John Georgas (R. Taylor, advisor) are using REST as the underpinning of

IS R T E C H N O L O G I E S A R E U S I N G R E S T A S T H E U N D E R P I N N I N G O F T E C H N I C A L C H A N G E. RESTful compositions are flexible and support loose coupling between software elements, largely due to these qualities, this work has produced two systems intended for the Western and Eastern Launch Ranges—one for peer-to-peer video collection, distribution, and archive, and the second for decentralized launch countdowns—that are fast to build, and cheap to maintain and upgrade. Future plans include the use of varying incrementalism and the REST archi-tectural style for the development of a fully-featured satellite telemetry ground system. This article was contributed by ISR Ph.D. student Dashofy, Georgia, Erenkrantz, and Gorlick and ISR alumnus Rohit Khare.

ASE 2005 in Long Beach, CA
The IEEE/ACM International Conference on Automated Software Engineering will be held in Long Beach, California, Nov. 7–11, 2005. The conference is in its 24th year! It draws on research in areas ranging from formal model-ing and reasoning about software systems to experimental data about human-computer interaction and collaboration with software tools. For more and other topics described on the website. General Chair David Redmiles worked specifically to bring this international conference to Long Beach so that the many researchers and professionals in the wider Los Angeles region could have the opportunity to participate without the usual expense of travel. Both industry and academic participants will find topics and events of interest, as well as a great opportunity to network.

H O T R E S E A R C H
Overcoming Privacy Barriers to Sales and Communication

Privacy and security issues are central to ISR’s research mission, since they lie at the intersection of software design, human fac-tors, business interests, and societal needs. ISR researchers are pursuing a number of privacy and security projects (last updated in the Fall/Winter 2002 ISR Connector). In the area of privacy, Alfred Kobsa and his col-leagues are currently exploring better ways to combine users’ privacy needs and interna-tional privacy law requirements with the best collaborative awareness tools and online per-sonalization services. These improved tech-nologies enable businesses to operate more efficiently through better collaborative work-practices and to considerably increase sales by promoting greater customer trust.

Supported by several grants from the National Science Foundation (NSF) and other sources, Kobsa and his students have focused on two aspects of privacy-enhanced personaliza-tion, namely collaboration awareness and the design of personalized systems.

Awareness, Privacy in Collaborative Work
It is well-established that being aware of col-laborators’ activities, routines, tasks, and availability can greatly improve computer-supported collaborative work. The need for awareness, though, is frequently at odds with an individual’s desire to keep private some of this information. Effectively balancing aware-ness and privacy needs has proven to be a significant challenge for designers of awareness systems and related infrastructures. This thorny balancing act is being examined as part of ISR’s NSF-funded research on multiple aspects of distributed software development. This Information and Technology Research (ITR) grant, which was recently extended by NSF, includes PIs Richard N. Taylor, Kobsa and six other ISR faculty researchers, as well as four industry partners. The ITR Fall/Winter 2002 ISR Connector (for grant details).

Focusing on one awareness technology in their ITR research project, Kobsa and ISR Ph.D. student (R. Taylor, advisor) found that Instant Messaging (IM) may be under-used in business settings when privacy is conventionally addressed. This is in part due to the utility of IM in keeping business secrets hidden from prying eyes. To meet business needs for timely updates on a project while protecting confidentiality, Kobsa and ISR Ph.D. student (R. Taylor, advisor) developed a secure messaging system for IM, “Instant Secure Messaging (ISM),” that allows users to monitor and control privacy-sensitive information through modi-fiable policies and settings. This privacy-
Enhanced solutions have the advantage of considering not only the security of a collaborative group, but also individual privacy needs. Kobsa and Patil are currently exploring several techniques to help users find the right balance between awareness and privacy, thereby increasing the use and effectiveness of collaborative awareness systems.

Privacy is also a research initiative of the European Commission’s Information Society Technologies (IST) Program, specifically in the project “Privacy and Identity Management for Europe” (PRIME). The European Commission is seeking ways to make user’s online navigation more privacy-protected. As part of a collaborative effort between NSF and IST, Kobsa has received funding to work with the PRIME project.

Kobsa’s two-year project, initiated in 2004, seeks to understand access information systems developed in his own research with those being explored by PRIME. As part of this collaboration, Patil will spend this summer at Karlstad University in Sweden. Lessons learned from previous research (e.g., see publications listed in http://www.isr.uci.edu/~kobsa/) will be explored and tested for applicability to Europe’s Internet privacy concerns.

Privacy is a concern for any organization and even personal information from the Web. The European Privacy Directive, for example, is a legal instrument to help make the Web more secure. The directive, which becomes effective in 2004, addresses such issues as the collection and processing of personal information, the use of cookies, and the cross-border transfer of personal data.

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For more information, contact:
Visiting Japanese Researcher Welcomed

In recent years, ISR has been privileged to host several long-term visiting researchers from Japan. Our visitors enrich our joint research collaborations and provide valuable interaction opportunities for all of us. This year ISR welcomes visiting researcher Akira Karasudani from Fujitsu Laboratories Ltd. in Japan, where he works in the I/O Systems Laboratory of the Storage and Intelligent Systems Laboratories.

Working with ISR host Paul Dourish, Karasudani’s current project is on personal information management from a cognitive psychology perspective. He says his interest in human computer interaction problems (HCI) stems from “very discriminating Japanese customers,” who demand high standards of usability from technology manufacturers. Hence HCI considerations are always taken seriously by Japanese soft-ware engineers.

Karasudani’s research interests include low-level storage architectures such as I/O interfaces and high-level storage architectures, including network appliances. His background includes image and signal processing and embedded systems—he contributed to the development of embedded systems for Fujitsu’s Magnetio-Optical Disk Drive or HDD.

Karasudani is maximizing his visit to UCI by taking classes with ISR faculty Alfred Kobsa, Paul Dourish, and Bonnie Nardi, and is enjoying interactions with the cultural melting pot of the university community. In his free time, he has taken the opportunity to get in touch with American culture by traveling, listening to jazz music, and enjoying American’s natural beauty. Irvine, he says, is a safe, comfortable place to live, but he misses the eclectic architecture and walking distances of home.

DID YOU KNOW?

Did you know that ISR faculty member Jim Whitehead’s research resulted in the creation of the widely used IETF MDM protocol?

FOCUS ON SPONSORS

ISR and Boeing Find the Meaning of Excellence through Collaboration

Thanks to a $1.8 million grant from the National Science Foundation, the Institute for Software Research and Boeing recently collaborated on a series of research projects that have been “a win-win for everyone concerned,” according to Doug Sedgwick, until recently the Director of Boeing Anaheim Information Technology (IT).

The Orange County chapter of the Achievement Rewards for College Scientists (ARCS) Foundation awarded ARCS scholarships to two ISR students, Kori Carpenter (P. Nard, advisor) and Emily Oh Navarino (A. van der Hoek, advisor) at the January 2005 award ban-quet. ARCS Scholars each received $10,000 to support their graduate studies.

Liuha Xu presented her joint paper with Hongyi Zhu (Zhejiang University, advisor) and Zhixiong Liu at the Early Aspects Workshop, held in conjunction with ASE05 2005 (Aspects-Oriented Software Development). Liuha presents her first conference paper, and the premier international conference on aspect-oriented technologies and practices. Their paper, "Software Modeling Non-functional Requirements in Software Technology Infrastructure unlike those in the U.S.


Johanna Brewer, ISR Research Associate and PhD student as of Summer 2005 (P. Dourish, advisor), presented her paper titled "Who Cares About Our Conceptual System?" at the 1st Ubicomp Workshop, which was co-located with CHI 2005 in Portland, OR.

For more information on students: http://www.isr.uci.edu/people.html

ISR STUDENT NEWSBRIEFS

Victor González (G. Mark, advisor) and his team of fellow students from UABG University and CERBM Research Center, México, placed second out of 24 teams competing in the CHI 2005 Student Design Competition. Their technological solution to the problem of elderly citizens living in isolation was presented along with three other finalists at CHI, the premier international confer-ence for human computer interaction researchers. Victor also served as a paper reviewer for CHI 2005.

The following is a list of the Reviewers for CHI 2005:

For more information about ISR Sponsorship, please contact:

Dr. Susan A. Knight
sknight@uci.edu

WANT TO GET INVOLVED?

Sponsoring ISR has many benefits. It enables your company to form closer ties with our faculty and students, puts you on the fast track to our leading edge research, and gives you first crack at our experimental software tools. Choose from five levels of sponsorship:

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Karasudani, a Visiting Japanese Researcher Welcomed

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Karasudani presents his poster on “Personal Information Management using User’s Episodic Activities Flow” at the 2005 ISR Research Forum. Until September 2005 he can be reached at akar-as@labs.fujitsu.com.

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With the help of Boeing IT project manager Kristine Kosaka, two teams of ISR researchers headed by faculty members David Redmiles and Gloria Mark conducted research at the Anaheim facility in 2004. The results showed effective practices of IT’s Center of Excellence (CoE), previously validated primarily by customer loyalty and internal cross-group differences. “We’ve been asked, ‘How does your group get more efficient?’” Now we have independent research to share,” reported Sedgwick. The research revealed CoE practices worthy of industry-wide benchmarking, as CoE practices were compared by researchers with those in other industry environments.

ISR alumnus Mark Bergman, Assistant Professor at the Naval Postgraduate School, and Gloria Mark found that CoE’s relationship building practices helped reach “sense-making” gaps between customers and service providers at the critical stage when requirements and other information are being translated and negotiated in development loops. ISR graduate student Mirko Wilensky (D. Redmiles, advisor), ISR Research Associate Rogério de Paula, and Redmiles found that the CoE’s extensive experience with collaboration technologies contributed to the group’s effective practices and successful service, including the CoE team members’ facility in using, evolving and sharing the technologies, as well as helping customers to adopt and use them.

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DID YOU KNOW?

Did you know that ISR faculty member Jim Whitehead has his research featured in the creation of the widely used ITTF WebMDM protocol?
and contributes to proposal success. It is also a good opportunity for students participat-
ing in the research to get acquainted with our industry partner, and vice versa, often leading to internships, employment, and/or further research opportunities. In addition, ISR technologies are more rapidly deployed to general use, speeding up technology trans-

ISR  Technical Reports Available Online
ISR technical reports present information resulting from student and faculty research

For more information, visit our website:

http://www.isr.uci.edu/spinc/about.html or contact:
Dr. Susan J. Knight
knight@uci.edu, (949) 824-5927

HONORING THE LATE ROB KLING

Margaret Elliott, ISR Research Specialist, and Kenneth Kraemer, Director of ISR’s sis-
ter organization CITRO (Human-Computer Interaction Research on Information Technology in Organizations); planned and coordinated the Social Informatics Workshop in March 2005. The event recognized the con-
tributions of late Professor Rob Kling as founder of Social Informatics, and extended his contrib-
utions in the area of “computational movements.” Kling was a Professor of Information and Computer Science at UC Irvine and a Faculty Associate of CITRO from 1973-1993. As described by Kling and colleagues, Social Informatics refers to the interdisciplinary study of the design, uses and consequences of informa-
tion and communication technologies (ICT) that take into account their interaction with institutional and cultural contexts, including organizations and society. The event focused on the “computational movement” that calls attention to the fact that the diffusion of technological innovations is fundamentally shaped by the interests of various actors such as vendors, consultants, media, movement organizations, users, and futurists whose interests coalesce to advance the use of technology within organizations and society. Computational movement advocates focus on technologies’ potential for causing positive social change. Recent computational movement research focuses on personal computers, free and open source software, the Internet, and ubiquitous com-
puting.

UCI’s Donald Bren School of Information and Computer Science has established a graduate fellowship fund in Professor Kling’s name. For more information, or to con-
tribute to the fund, please email: Klingfund@ics.uci.edu.

Materials from the workshop can be found at http://www.isr.uci.edu/si. Margaret Elliott, who contributed this article, can be reached at mellott@ics.uci.edu.

Focus on Faculty

Meet Advanced Power Researcher Scott Samuelson

Going to the World’s Fair this summer in Japan? Look there for the fruits of ISR faculty Scott Samuelson’s research.

Samuelson, Professor of Mechanical, Aerospace and Environmental Engineering and Director of the Advanced Power and Energy Program (APEP) at UCI, is looking forward to the World’s Fair. His research in energy generation, distri-
bution and use. His work also explores the environmental impact of these energy sys-
tems, the dynamic between energy genera-
tion and atmospheric quality, and the develop-
ment of environmentally preferred, high-

efficiency energy generation integrated into buildings and building complexes. APEP encompasses two research entities, the National Fuel Cell Research Center (NFCRC) and the UCI Combustion Laboratory (UCICL). The NFCRC’s exhibit at the World’s Fair demonstrates the fuel cell’s promise as a dependable, efficient and envi-
ronmentally friendly alternative to the internal combustion engine. The NFCRC has pioneered fuel cell technologies and applications, including hybrids of fuel cells and turbine engines. It deployed the first highway-ready vehicle powered by a hybrid fuel-cell engine, the “FCV02.” Nearly 2 million people are expected to visit the UCI fuel cell exhibit this summer, one of five main displays in the U.S. Pavilion.

Samuelson collaborates with other ISR researchers at the intersection of energy and software engineering. One such project was part of an ISR 8.1 million NSF Information and Technology Research grant with multiple corporate and nonprofit partners. The project investigated topics in decentralized applications, such as fuel cells close to the point of use but networked together. Samuelson and Richard N. Taylor are also looking at broad issues of coordination, control and decen-
tralization in the electric power industry. The future of electric power generation and use is dis-
tributed generation, and the demand for software that supports secure, robust strate-
gies for control and management, and efficient business operating principles

ISR Alumni News Briefs

Roy T. Fielding

Jack Muramatsu (P. Dourish, advi-
sor) received his Ph.D. in December 2004. His disserta-
tion was titled, “Social Regulation of Online Multiplayer Games.” Jack is currently a research associate with the Donald Bren School of Information and Computer Science at UC Irvine.

Peter Kamm, Ph.D. 2004 (R. Taylor, advisor), has been named senior soft-
ware architect at Stream Theory, Inc. which recently merged with Endeavors Technology, Inc.

Samuelsen received his B.S., M.S. and Ph.D. degrees in Mechanical Engineering from UCBerkeley. He is on the editorial boards of

and the UCI Combustion Laboratory (UCICL). The NFCRC’s exhibit at the World’s Fair demonstrates the fuel cell’s promise as a... people are expected to visit the UCI fuel cell exhibit this summer, one of five main displays in the U.S. Pavilion.

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ISR Technical Reports Available Online
ISR technical reports present information resulting from student and faculty research carried out under the auspices of the Institute. They showcase early results not available in

For more information, contact:
Debra A. Brodbbeck, Technical Relations Director, brodbbeck@uci.edu, (949) 824-2260.

Become Part of the ISR Family
Rubbing elbows with ISR faculty, staff and students gives you a valuable window into the technology landscape of the future. But it’s friendly. An instructor isn’t the much more... is a think tank, an R&D department, a research library, a consulting firm, a training depart-
ment, and an employment agency, all rolled into one. More importantly, when you spon-

For more information on current projects at the upcoming ISR Research Forum, look for the “xTreme Requirements Analysis in Systems Development” poster by K. Kosaka, M. Bergman, and G. Mark:

Forum-2005/posters.htm

For more information, contact:
Debra A. Brodbbeck, Technical Relations Director, brodbbeck@uci.edu, (949) 824-2260.

“My Interdisciplinary Perspective on Interdependencies”-Cléodrine de Souza, UCI-ISR-65-7, May 2005

“Temporally Expressive Scenarios in ScenarioML”-Thomas A. Alspaugh, UCI-ISR-65-5, May 2005

A Survey of Software Engineering Educational Delivery Methods and Associated Learning Theories”-Emily Oh Navarro, UCI-ISR-65-5, April 2005

A Survey of Distributed Hypermedia Systems”-Joachim Fuss, UCI-ISR-65-4, April 2005


“Software Support for Calculations in Allen’s Interval Algebra”-Thomas A. Alspaugh, UCI-ISR-65-2, February 2005

“Privacy, Security... and Risk and Danger and Secrecy and Trust and Morality and Risk”-Paul Dourish, Ken Anderson, UCI-ISR-65-1, January 2005

All ISR technical reports are available at:

http://www.isr.uci.edu/tech-reports.html
FOCUS ON ISR TECHNOLOGIES

Designing a RESTful World

The design decisions codified in the REST architectural style are making an impact on how we live and work on the Web today. Some examples of how REST is changing the face of the Web include:

No more “Server too Busy” errors: REST’s statelessness allows companies like Akamai to distribute content across multiple servers with ease, making it possible for people to get breaking news and popular content without overloading the original server.

What you see is what you want: REST’s use of resource representations allows the Web to tailor content to individuals’ preferences. Note the difference in the size of the resource into the client’s preferred language or making it accessible on the client’s browsing device, be it a smartphone or BlackBerry.

More secure, more private: The ability to transfer (and transform) resource representations through one or more intermediate proxies can help to guarantee security and anonymity over the public Internet.

Most closely fit their needs. For example, a server may choose to automatically translate a requested document resource into another language for a client in a foreign country, or it might format a graphics-intensive resource into a simpler, less-detalled representation if the client is using a cellular phone screen. This allows servers to maintain resources in any way convenient or appropriate, providing more flexibility, as this makes it possible to extend a resource’s functionality without a new implementation. This property proves especially useful in the deployment of new services and content, a key aspect of the Web’s success and broad usefulness.

REST interactions are essentially stateless. That is, a persistent (and thus fragile) connection need not be maintained between clients and servers over the course of many requests and responses. Each request from a client to server contains all of the information required to understand that request.

Besides providing design guidance for the Web as it exists today, REST is influencing the applications of tomorrow. REST allows us to explore the applications of tomorrow, rethinking the way software engineers work and the way people in general interact with computers. Heterogeneity in hardware and heterogeneous computing devices have been instrumental in changing the way software engineers work and people in general interact with computers. The exponential growth in the number of different client devices has been instrumental in changing the way software engineers work and people in general interact with computers. Heterogeneity in hardware and heterogeneous computing devices have been instrumental in changing the way software engineers work and people in general interact with computers. The exponential growth in the number of different client devices, for example, has made it necessary to design applications that are robust and resilient to the wide variety of devices and environments that may be used to access the Web.

Rather than viewing the Web as a loosely-organized collection of files available for download, REST treats all Web content—text, images, audio, dynamically generated abstract resources rather than specific instances or documents, REST allows content providers to provide dynamic, up-to-the-minute content.

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Most closely fit their needs. For example, a server may choose to automatically translate a requested document resource into another language for a client in a foreign country, or it might format a graphics-intensive resource into a simpler, less-detalled representation if the client is using a cellular phone screen. This allows servers to maintain resources in any way convenient or appropriate, providing more flexibility, as this makes it possible to extend a resource’s functionality without a new implementation. This property proves especially useful in the deployment of new services and content, a key aspect of the Web’s success and broad usefulness.

REST interactions are essentially stateless. That is, a persistent (and thus fragile) connection need not be maintained between clients and servers over the course of many requests and responses. Each request from a client to server contains all of the information required to understand that request.

Besides providing design guidance for the Web as it exists today, REST is influencing the applications of tomorrow. REST allows us to explore the applications of tomorrow, rethinking the way software engineers work and the way people in general interact with computers. Heterogeneity in hardware and heterogeneous computing devices have been instrumental in changing the way software engineers work and people in general interact with computers. The exponential growth in the number of different client devices has been instrumental in changing the way software engineers work and people in general interact with computers. The exponential growth in the number of different client devices, for example, has made it necessary to design applications that are robust and resilient to the wide variety of devices and environments that may be used to access the Web.

Rather than viewing the Web as a loosely-organized collection of files available for download, REST treats all Web content—text, images, audio, dynamically generated abstract resources rather than specific instances or documents, REST allows content providers to provide dynamic, up-to-the-minute content.

No more “Server too Busy” errors: REST’s statelessness allows companies like Akamai to distribute content across multiple servers with ease, making it possible for people to get breaking news and popular content without overloading the original server.

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ISR EVENT SCHEDULE

Mark your calendars now!

Tuesday, June 3, 2005
2005 ISR Research Forum: Wave of the Future
Keynote speaker: Thomas W. Malone, Patrick J. McGovern Professor at the MIT Sloan School of Management

“The Future of Work and Processes”
1:30-7:30 p.m., McComb-Douglas Auditorium
Evening reception with posters and demos at the new CaZit building.

Graduate Student Research Forum: For Students By Students
9:00-1:00 p.m., CS 432
This special session, organized by ISR graduate students, features short poster presentations. It precedes the main Forum program.

Details are available at: http://www.isr.uci.edu/events/Research-Forum-2005/

ISR 2005-06 Distinguished Speaker series will be announced this summer.

For more information: http://www.isr.uci.edu/events.html

ISR PLAYS A LEAD ROLE IN UPCOMING CONFERENCES

November 7-13, 2005
Long Beach, California

General Chair: ISR Prof. David F. Redmiles
Webmaster: Jie Ren, Ph.D. student (R. Taylor, advisor)
Local Arrangements Chair: Debra A. Brodbeck, ISR Technical Relations Director
Treasurer: Kiana Fallah, ISR Director of Operations

http://www.asae-conference.org/

May 20-28, 2006
ICSE 2006: 28th International Conference on Software Engineering
Shanghai, China

External Relations Director: Debra A. Brodbeck, ISR Technical Relations Director
Webmaster: Justin R. Erenkrantz, Ph.D. student (R. Taylor, advisor)

http://www.icse-conference.org/2006/

ISR Tools

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ISR is generously supported by:

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that communicate over high-latency net-
works. ISR graduate student Justin Erenkrantz (R. Taylor, advisor) is studying how applications can take advantage of REST principles, making them more effective in a RESTful world. Two such applications are the popular Apache HTTP Server (on which Erenkrantz is a core developer) and a new client library called Serf, which he is designing from the ground up with RESTful principles. These architectural principles are also being leveraged in the larger context of software development methodology research. In collaboration with The Aerospace Corporation, ISR graduate students Michael Gorlick and John Georgas (R. Taylor, advi-
sor) are using REST as the underpinning of
to support key private some of this information. Effectively balancing aware-
ness and privacy needs has proven to be a

significant challenge for designers of awareness systems and related infrastructures.

This thorny balancing act is being examined as part of ISR’s NSF-funded research on multiple aspects of distributed software development. This Information and Technology Research (ITR) grant, which was recently extended by NSF, includes P.I. Richard N. Taylor, Kobsa and six other ISR faculty researchers, as well as four industry partners (IBM, Intel, Motorola and Winter 2002 ISR Connector for grant details).

Focusing on one awareness technology in their ITR research project, Kobsa and ISR Ph.D. candidate Sameer Patil (A. Kobsa, advisor) found that Instant Messaging (IM) may be under-used in business settings when privacy is conventionally addressed... (More Research Briefs on pg. 3)

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ISR RESEARCH BRIEFS

Gloria Mark has been named a 2005-2006 Fulbright Scholar. In association with a 4-month sabatical at Humboldt University in Berlin, she will study geographically distributed teams. Mark’s research interests in computer-supported cooperative work will synergize with German researchers’ long interest in work psychology.

Richard N. Taylor has received the 2005 ACM Special Interest Group on Software Engineering (SIGSOFT) Distinguished Service Award. The award, presented annually to an individual who has contributed dedicated and important service to the software engineering community, was presented at the 2005 International Conference on Software Engineering (ICSE) in May 2005.

With colleague Steven Cramer, Asst. Professor of Psychology at UCL, Cristina Videira Lopes has been awarded a Nicholas Foundation Prize for Cross-Disciplinary Research. Cramer and Lopes will develop a computerized communication platform to measure and track physical therapy data from patients’ homes via the Internet to UCI, enabling detailed monitoring for speedier recovery from spinal cord injuries.

A National Science Foundation (NSF) grant of $775,000 was awarded to Richard N. Taylor to help build a new interdisciplinary Science of Design. The proposal, “Designing Architectures for Networked Applications: A REST-ful Approach,” will help establish teach-
able scientific principles transforming the way complex software-intensive systems—every-
thing from autos and rockets to web applications—are designed.

David Redmiles, Susan Elliot Sim and André van der Hoek have received IBM Eclipse Innovation grants. The Eclipse open-source community creates technologies and an open universal platform for tool integration. The grants encourage the adoption of Eclipse to innovation in teaching, research or community building.

Walt Scacchi and Robert Nideffer, co-leads of the UCI Game Lab, are developing science training games with a grant from the Orange County Discovery Science. The partnership will help children from 3 to 10 learn about dinosaurs and life sciences.

With Aerospace Corporation colleagues Sergio Alvarado and Scott Turner, ISR alumnus Hator Zh is co-chairing the Workshop on Co-located Multimodal Multimedia, and Elaboration (ACE3) of Software-Intensive Systems at the 2005 Ground Systems Architecture Workshop (GSAW).

(For more Research Briefs on pg. 3)