Annual Report for 2004

Department of Computer Information Systems

Robinson College of Business

Georgia State University
“The Computer Information Systems Department has long been known for its well charted pathway of progress and accomplishment. However, it is our distinctive bonding of research and practice that is paving the road ahead, providing a highly durable surface for continuing the unending journey to ever-higher levels of achievement.”

- Jim Senn, CIS Department
Dear Reader

Welcome to the 2004 annual report of the Department of Computer Information Systems at Georgia State University. We are proud that we have continued to maintain our high rankings again this year among the top-ten rank of graduate information systems programs in the United States. The high quality of our programs continues to improve. In 2004 we researched and completely redeveloped our MS curriculum and worked these proposals through the various approval bodies to win acceptance. During this year we also implemented several major new facilities including the addition of 60 student workstations to our active learning classroom, the completion of our new student design and development architecture, and the construction of the CIS virtual laboratory.

The year brought us opportunities to engage two new staff members, and we have been fortunate in attracting and recruiting additional top-notch support folks who have continued our progress in drawing higher performance evaluations from the faculty. We also operated a major campaign to increase the impact of our executive roundtable, with clearly increased interest and attendance.

Those of us engaged in the department believe we have been entrusted with one of the “crown jewels” of the People of Georgia: A very high quality division in a fine institution of higher education. This is our report for our past calendar year of service to our various constituents. As you leaf through the pages, I hope you will be pleased with our accomplishments and favorably disposed toward our efforts on behalf of this public trust. We have done our best work this year, as in years past, and remain dedicated to becoming better with each passing year.

It has been, and ever will be, our pleasure to serve you.

Yours sincerely,

Richard L. Baskerville, PhD CEng
Chairman of the Department
The vision of the CIS Department at Georgia State University is to be a world leader in the advancement of knowledge in information systems and technology by leveraging the diverse strengths of our distinguished faculty. Our mission is therefore the creation and dissemination of knowledge about, and solutions to, the issues facing management and IS professionals in the successful deployment of information technology. Our activities embrace research and development of this knowledge, and its dissemination through education, scholarly publications, professional presentations, and practice. Leadership requires the Department to anticipate rather than react to issues and trends, providing innovative, quality solutions in research and education, and assuming an active role in the governance of our academic and professional societies.

Unique Nature of Our Department in the US

Formed in 1969, the CIS Department of Georgia State University's Robinson College of Business is nearly 36 years old, and unique in many respects. First, it is a large information systems department, probably the largest US department within a business school dedicated solely to information systems. Second and surprisingly for its size, it is a high quality department, both in terms of its academic programs (ranked 8th among graduate schools nationally in U.S. News and World Report) and its research (ranked 3rd nationally in the Academy of Management Journal). Third, the CIS Department has historically engaged a strong technical component in its faculty and programs, while most business school information systems programs primarily focus on the management and strategic issues of systems. Fourth, the CIS Department maintained its distinctive identity and significant student population through periods when departments in other business schools were shrinking and consequently merged with other departments (e.g. management, accounting, operations, etc.).

Academic Programs

The Department operates four primary academic programs leading to five degree qualifications: (1) A Bachelor of Business Administration with a Major in Computer Information Systems; (2) A Master of Science with a Major in Computer Information Systems; (3) A Master of Business Administration with a Major in Information Systems; (4) A Master of Business Administration with a Concentration in Information Systems and (5) A Doctor of Philosophy in Business Administration with a Major in Computer Information Systems. The Department also participates in three MBA “Career Paths.” These are additional options for MBA students similar to dual concentrations: (1) Accounting Information Systems Design and Assurance, (2) Information Systems Consulting, and (3) International Business and Information Technology. The Department also offers several certificates for students who complete specified course sequences, sometimes with minimum grade requirements, such as the “Certificate of Excellence in C++ Programming.” The Department supports the general BBA and MBA population by staffing introductory information systems courses, sustaining elective credit for this population, and similarly supports the executive MBA program with key CIS courses in that program. The Department also develops executive education programs for business professionals.

Size

In academic year 2004-2005, the CIS Department has 27 full time faculty members. Of these, 21 are tenured or tenure-track, 6 are non-tenure-track. As of January 15, 2005, there are 389 students in the BBA program, 86 students in the MS program, 94 students in the MBA programs, and 24 PhD students. In the 2003-2004 academic year, the Department offered 146 course sections generating 3616 semester credit hours.
The student and faculty size grew steadily until 1999-2001, after which both declined to present levels.

Facilities

The Department occupies the entire ninth floor of the Robinson College building in central Atlanta. Additional faculty and staff offices are also housed on the fourth and eighth floors of this building. The Department operates six major network servers, including a major student server, two Sun servers, a production web/database server, a development web server, a virtual classroom/lab server, and a student development architecture. We also operate the largest student workstation-equipped classroom at GSU, a 55-seat CIS classroom. We operate over 75 workstations, and both wireline and wireless networks.

There are ten full-time staff members engaged in administrative and technical duties. A business manager and four other staff members provide administrative support. A departmental technology manager and one other staff member provide technical support. Three staff members are dedicated by contract to manage the headquarters of the Association for Information Systems, a major professional organization housed in the Department.

The Department operates a research laboratory in leased premises on the lower ground floor at 10 Park Place, two blocks from its offices in the RCB building. This laboratory will relocate to the RCB building in 2005. This research laboratory houses the “BrainLab” currently undertaking sponsored research on human brain-computer interfaces. The department also operates a security firewall laboratory on the twelfth floor of the Robinson College.

During 2004, the department successfully implemented two new teaching facilities. A 40-seat virtual laboratory enables faculty to create special purpose, on-demand CIS teaching labs in any student-workstation-equipped classroom with Internet access. The virtual lab allows us to instantiate special facilities, like a group decision support classroom, a data-mining classroom, or a Computer-Aided Software Engineering classroom in any computer-equipped room available, regardless of the power of the real student machines. The virtual laboratory is available outside of class time for student homework (again, from anywhere the students choose). In 2004 we implemented the new 55-seat CIS student-workstation classroom.

Research Programs

The members of the Department engage in highly diverse research projects. The projects are rich and varied in both technique and topic. The Department takes particular pride in fielding quantitative, qualitative, and design research projects, and in sustaining important research in highly technical matters as well as important research in management of information systems. CIS faculty members are very productive researchers and publish prolifically, collectively producing more than 100 published research articles annually. Members of the CIS Department have been very successful in attracting research grant support that reached an operating budget of $2.7 million in sponsored programs during 2004.

Service Programs

The members of the Department are closely engaged with their professional community in leadership roles such as editorships and organizational offices. They serve in a wide range of international, national and local committees and working groups. The Department maintains institutional relationships with several professional organizations and its local business community.
The CIS faculty has been successful in securing funding from a number of public and private sources. The following summarizes the research and sponsored activities for the faculty for 2004.

<table>
<thead>
<tr>
<th>Faculty Member or Group</th>
<th>Project Title</th>
<th>Source of Funds</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEPRIN (Richard J. Welke, Lars Mathiassen, Arun Rai)</td>
<td>Research project</td>
<td>Gartner</td>
<td>$112,900</td>
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<tr>
<td>CEPRIN</td>
<td>Research project</td>
<td>Georgia Research Alliance</td>
<td>$47,000</td>
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<td>CEPRIN</td>
<td>Conference sponsor</td>
<td>Microsoft Corp.</td>
<td>$2,500</td>
</tr>
<tr>
<td>CEPRIN</td>
<td>Conference sponsor</td>
<td>Intel</td>
<td>$5,000</td>
</tr>
<tr>
<td>CEPRIN</td>
<td>Conference sponsor</td>
<td>Gartner</td>
<td>$5,000</td>
</tr>
<tr>
<td>CEPRIN</td>
<td>Doctoral student support</td>
<td>UPS</td>
<td>$12,000</td>
</tr>
<tr>
<td>CEPRIN</td>
<td>Travel and GRA support grant</td>
<td>SIM APC</td>
<td>$16,500</td>
</tr>
<tr>
<td>Moore, Melody</td>
<td>Human-Computer Interaction for Direct Brain Interfaces</td>
<td>National Science Foundation</td>
<td>$224,000</td>
</tr>
<tr>
<td>Melody Moore</td>
<td>Human-Centered Design of Context-Aware Computing: Scalability, Usability, and Privacy</td>
<td>National Science Foundation</td>
<td>$240,000</td>
</tr>
<tr>
<td>Melody Moore</td>
<td>General Purpose Brain-Computer Interface (BCI) System</td>
<td>National Institutes of Health NINDS Bioengineering Research Consortium (BECON)</td>
<td>$477,000</td>
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</tr>
<tr>
<td>Melody Moore</td>
<td>Rehabilitation Engineering Research Center for Workplace Accommodation</td>
<td>National Institute for Disability and Rehabilitation Research (NIDRR RERC)</td>
<td>$261,000</td>
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<tr>
<td>Detmar Straub</td>
<td>Forum to Advance Theory on National IT Policy</td>
<td>National Science Foundation</td>
<td>$30,000</td>
</tr>
<tr>
<td>Vijay Vaishnavi</td>
<td>Research Experience for Undergraduates (REU) Supplemental grant to NSF ITR project</td>
<td>National Science Foundation</td>
<td>$6,000</td>
</tr>
<tr>
<td>Vijay Vaishnavi</td>
<td>Directory Services for Communities of Interest</td>
<td>Sun Microsystems Academic Equipment Grant</td>
<td>$111,515</td>
</tr>
<tr>
<td>Vijay Vaishnavi</td>
<td>ITR - Promoting Semantic Interoperability of Metadata for Directories of the Future</td>
<td>National Science Foundation</td>
<td>$80,000</td>
</tr>
<tr>
<td>Vijay Vaishnavi</td>
<td>ITR - Promoting Semantic Interoperability of Metadata for Directories of the Future</td>
<td>National Science Foundation</td>
<td>$86,000</td>
</tr>
</tbody>
</table>
Laboratories: GSU BrainLab

*Melody Moore, Coordinator of CIS Laboratories*

www.cis.gsu.edu/brainlab

One of the most tragic circumstances that can befall a human being is a disease or injury that renders the person completely paralyzed and unable to speak. The term "locked-in syndrome" describes a half million people worldwide who are prisoners in their own bodies, intelligent and alert but unable to communicate even their most basic needs. Technology, however, is now providing hope for people who have severe paralysis and locked-in syndrome. Over the last two decades, researchers have developed methods of controlling a computer directly from the brain and other biometric signals. The GSU BrainLab is researching real-world applications for biometric control, focusing on electroencephalogram (EEG) technology to detect thresholds in specific temporal patterns or rhythms in brain signals as well as functional near infrared (fNIR) imaging and galvanic skin response.

The GSU BrainLab is housed within the Computer Information Systems (CIS) Research Laboratory at Park Place 10 on the GSU campus. The main focus of the CIS lab is to provide a venue for software development, demonstrations, technical and research collaboration, data collection and analysis, and scholarly publications. The facility includes a computer lab space with twenty Intel P3 and P4 class machines, laser printers, and environmental control hardware in the form of a Slink-e interface to infrared and X10 controls for devices. Internet connectivity is provided by a 10MBs connection to the GSU public network. A wireless ethernet hub supports laptops and mobile devices (such as our "Aware 'Chair" intelligent context-aware wheelchair). The recording lab provides complete EEG recording capabilities implemented by a 64-channel SA Instruments bioamplifier, head stage, electrocaps, and brain signal acquisition and analysis computers. The BrainLab also contains a hardware workstation with an oscilloscope, soldering station, and other equipment to allow novel devices to be created and tested.

In addition to the brain signal recording equipment, the BrainLab also owns a commercial police polygraph machine, which is being used to research galvanic skin response as a communication mechanism for people with locked-in syndrome.

**Affiliate GSU faculty:** Melody Moore, Brendan Allison, Veda Storey, Geoffrey Hubona, Roy Johnson

**Full- time Staff:** Lisa Hunt, Dan Ratanasit, Shidong Zheng, Janki Vora

**Visualization Lab (Geoff Hubona)**

**website:** http://3lab.internetworkflow.com

**Purpose:** We are fascinated by how humans can perceive three dimensional objects on a two dimensional medium, such as a computer screen. We are running experiments that will lead to a better understanding of which cues aid users in perceiving three dimensional objects better and faster. Because the ability of users to perceive such three dimensional objects is application-specific, our aim is to perform localized experiments with light, shadows, shapes, motion and other visual cues and relate the effective use of those cues to specific task accomplishments.

While some studies have been done in this area, we believe that additional research can help user interface experts improve the use of three dimensional rendering technology in various applications. With the cost of hardware continuing to decrease and with improvements in basic processing power, we anticipate that a better understanding of this technology will lead to new developments and uses for it in common everyday applications.

**Current Affiliated Members:** (1) Geoffrey S. Hubona, Associate Professor of CIS at Georgia State; (2) Gregory W. Shirah, Scientific Visualizer/Animator at NASA Goddard
Space Flight Center; (3) Jason Pamplin, GRA and Georgia State Computer Science PhD student.

**Status:** The CIS Visualization Lab is a very new (March 2004) start-up venture. At present, there is no internal or external source of funding to support the development of the lab.

**Security Lab (Carl Stucke)**

The increasing importance of security and privacy for businesses is driving CIS and CIS students (as well as other business students) to focus more on security and privacy of information and information systems. As a result, CIS has considered how to add to our course offerings to meet this knowledge need. We have created one new, approved undergraduate course (CIS 4680 Introduction to Security and Privacy of Information and Information Systems). Additional graduate level courses are being pursued (at differing rates). One emerging need for these courses is a means of making the threats more real (as well as making countermeasures more real). A security lab seems the ideal way to accomplish this goal. Roger Matthew, a GSU CIS alum and SnapGear, the secure network appliance company where Roger is a VP, have donated 12 Internet Security VPN Firewalls to bootstrap implementation of this security lab. Additionally, Cisco has donated $21K in equipment to this lab. Finally, a Student Technology Fee proposal has gone forward for $19K to blade servers and security testing and protecting software to be acquired.

Access to the lab will be via the existing GSU network. Network access to the lab and from the lab will be controlled and protected by an IS&T specified and controlled firewall. IS&T has guided and defined how the lab’s environment should be configured to protect GSU and external resources from lab activities. This is critical since these activities within the lab involve analyzing assigned lab systems for vulnerabilities, taking remedial actions on these assigned lab systems, and then reanalyzing the lab systems. In this process within the controlled lab, a variety of attacks will be observed and then blocked via firewall configuration, patch application, or other techniques.

A small subset of this equipment will be available in 1223 34 Peachtree St. for off the network testing. The lab will first be used in courses beginning in Fall 2004 with possible pilot testing in summer.

**Interactive Learning Classroom (Rod Padilla)**

CIS High Tech Interactive Learning Classroom (CS-100): Successfully submitted and implemented Tech-Fee proposal to fund the largest technology enabled classroom on campus. Funding created an “Active Learning Classroom by installing ultra-small factor workstations in CS-100, enabling students to have a “real-time experience” for CIS courses. This project was motivated by a recommendation from external reviewers of the CIS Academic Programs filed with the Provost in 2003.

**Virtual Lab (Rod Padilla)**

CIS Computing Virtual Lab: Successfully submitted and implemented Tech-Fee proposal to fund this innovative approach to enhance student learning by providing a virtual technology classroom instead of a “regular classroom lab. Students are able to use RDC (Remote Desktop Connection) and access any of the lab desktops and specialized software and software development environments. This Virtual Lab supports several virtual workstations and servers that are configured with specialized software to meet requirements of any specific course. This project was motivated by a recommendation from external reviewers of the CIS Academic Programs filed with the Provost in 2003.
Shared Interest Groups

The following SIGs, with their web sites at http://www2.cis.gsu.edu/cis/research_sig/index.asp, were active in 2004:

**e-Business Software Development**

_Bala Ramesh, Coordinator_

**Scope and Aims**

The SIG focuses on the development of systems to support e-Business. The aim of the group is to address the inability of current technologies, practices and organizations to satisfy the software development needs of e-Business. The SIG is interested not only in technologies and methods developed to support such systems, but also the study of managerial and organizational issues that must be addressed to achieve successful implementation.

**Activities**

The activities of the SIG have been focused on the Internet Speed Software development project, conducted in collaboration with colleagues at IT University of Copenhagen, Software Engineering Institute and Carnegie Mellon University. The explosion of electronic commerce on the Internet and the rapid rate at which corporations are reinventing themselves into e-businesses have created a radically new environment for software development. To be competitive in the new digital economy, organizations require the ability to productively develop high-quality software systems at “Internet speed.” However, even without the high-speed development demands of digital markets, the widespread diffusion of quality software development practices has met with serious obstacles. These are even more exacerbated in the Internet environment, with its emphasis on reduced cycle times and agility, i.e., the ability to deliver products quickly and to adapt to changing requirements.

A major theme of the work in the SIG was to discover how quality and agility can be achieved in software development. Specifically, the goals were to _a_ understand how and why Internet speed software development is different from traditional software development, _b_ capture innovative practices used to achieve quality and agility in this environment, and _c_ explore the situational factors that motivate the choice of high speed development practices and the situations under they are effective.

The findings from this research has contributed to a better understanding of how applications that are of better quality, have shorter time to market, and are cheaper can be developed. Ongoing work seeks to develop recommendations for managing high speed development projects.

**Publications**


Inter-Organizational Systems (IOS)

Vijay Vaishnavi, SIGIOS Coordinator

Scope and Aims

The scope of the SIG is stimulated and scoped by concepts suggested in the book by Davidow & Malone, "The Virtual Corporation," and research papers such as the one authored by Mowshowitz, "Virtual Organization: A Vision of Management in the Information Age." These sources provide a vision of companies using information technology (IT) as a key resource to enable them to specialize on what they do best, using IT to minimize their internal effort and to maximize their constructive output.

Activities

One of the major activities of the IOS SIG focuses on the Directory Services Project, which has been supported by the SUN Academic Equipment Grant and the Advanced Campus Services, Information Systems and Technology, Georgia State University. The work on the project is also part of the National Science Foundation Middleware Initiative (NMI) Integration Testbed Program (September 2001 - August 2004), which is funded through the Southeastern Universities Research Association (SURA). This project received a three-year ITR research award (2003-2006) from the National Science Foundation (http://www2.gsu.edu/~wwwacs/test/ACS_Page2/NSF_ITR_Home.htm). In 2004, the National Science Foundation supplemented the ITR research award with a Research Experience for Undergraduates (REU) award. The project is also being funded by Information Systems & Technology.

In 2004, the focus of the SIG was broadened to include investigation of information integration in the bioinformatics area. The bioinformatics area presents the problem of integrating complex, fast evolving, and a broad variety of digital data that includes textual, numeric, and other forms of data. This effort is being supported by the university under the Area of Focus award to the Brains and Behavior Program.

Participants: Vijay Vaishnavi, Art Vandenberg (Advanced Campus Services), Carl Stucke, Susmita Datta (Mathematics and Statistics Department), Victor Bolet (Information Systems and Technology), Sham Navathe (Georgia Tech), Diane Gromala (Georgia Tech), Chris Shaw (Georgia Tech), Bill Kuechler (University of Nebraska at Reno), graduate, and undergraduate students.

Research: The research thrust of the project is on promoting semantic interoperability across organizational information systems. Directories are still a major focus but not the only focus. For directories, issues of semantic meaning and object reuse in relation to LDAP directories are being investigated. A research prototype for Semantic Facilitator™ (SM) has been built and is being upgraded to become a tool available on the Web. The prototype includes a user interface to specify new objects and attributes, a mechanism to create these objects in LDAP, a process to extract LDAP schema information and apply a SOM clustering algorithm, and the display of the resulting cluster maps to the interface. Improvements to the clustering algorithms are being explored, which involves using experiments to validate computer algorithms against human experts' clustering of objects and using genetic algorithms.

Papers:


**Presentations and Invited Talks**


**Research Proposals Submitted for Externally Funding**

<table>
<thead>
<tr>
<th>Month</th>
<th>Funding Body</th>
<th>Proposal Description</th>
<th>Amount (USD)</th>
<th>PI</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>January 2004</td>
<td>National Institute of Health (NIH)</td>
<td>“SouthEast Collaborative Alliance Biocomputing Center (SECABC)”</td>
<td>$21,750</td>
<td>Robert Harrison</td>
<td>Not funded</td>
</tr>
<tr>
<td>March 2004</td>
<td>National Science Foundation</td>
<td>“A Novel Approach to Information Integration of Heterogeneous Bioinformatics Sources”</td>
<td>$875,525</td>
<td>Vijay Vaishnavi</td>
<td>Not funded</td>
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<tr>
<td>April 2004</td>
<td>National Science Foundation</td>
<td>“Research Experience for Undergraduates (REU)Supplemental grant to NSF ITR project”</td>
<td>$6,000</td>
<td>Vijay Vaishnavi</td>
<td>Funded $6,000</td>
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<tr>
<td>May 2004</td>
<td>National Science Foundation</td>
<td>“NMI Deployment (BIO) – General Purpose Utility Grid for Research and Education”</td>
<td>$2,994,124</td>
<td>Art Vandenberg</td>
<td>Not funded</td>
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## Externally Funded Research Projects

<table>
<thead>
<tr>
<th>Title</th>
<th>Period</th>
<th>Funding</th>
<th>Agency</th>
<th>PI</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;Directory Services for Communities of Interest&quot; (Sun Microsystems Academic Equipment Grant) (EC)</td>
<td>July 1, 2001 - December 31, 2004</td>
<td>$111,515</td>
<td>SUN</td>
<td>Vandenberg</td>
</tr>
<tr>
<td>&quot;ITR - Promoting Semantic Interoperability of Metadata for Directories of the Future&quot; (EC)</td>
<td>September 1, 2003 - August 31, 2004 (first year of the three-year grant of $240,000)</td>
<td>$80,000</td>
<td>NSF</td>
<td>Vaishnavi</td>
</tr>
<tr>
<td>&quot;ITR - Promoting Semantic Interoperability of Metadata for Directories of the Future&quot; (EC)</td>
<td>September 1, 2004 - August 31, 2005 (first year of the three-year grant of $246,000)</td>
<td>$86,000</td>
<td>NSF</td>
<td>Vaishnavi</td>
</tr>
</tbody>
</table>
Information Systems Education (ISE)

Jens Liegle, SIGISE Coordinator

Scope and Aims

The scope of the SIG is the intersection of education and information technology. We approach this research area from two directions: From the education side, we are conducting pedagogy research on the teaching of Information Systems and Technology (IS&T) material, and from the technology side we are developing and evaluating information technology for use with IS&T education.

Informal members of this group with an explicit interest in the subject matter are Jens Liegle, Peter Meso, Roy Johnson, and Dave McDonald.

Activities

The following activities are currently conducted by the SIG:

Target Journal List

Motivated by the requirements for NTTs to publish, some NTTs with an interest in IS Education wanted to create a "Target Journal List" for IS Education Journals. Since currently only 1 such journal (IEEE TA on Education) is part of our list, the goal was to identify "premier" and "high quality" journals following the procedure that the Journal List Committee established. Jens (TT, but chair of SIG) joined that effort.

We currently have identified a list of potential IS education journals and are gathering documentation / evidence on their respective quality based on criteria identified in an interview with Dan Robey.

The initial results of this study were published in “A Review of Premier Information Systems Journals for Pedagogical Orientation.” Presentation and publication in the proceedings of the ISECON Conference, San Diego, CA, Nov. 6-9, 2003 (Liegle, J. and Johnson R.)

Survey Article

Using the outcome from project a), we are working on a survey to allow us to rank the journals. The goal is to publish the results in a survey article.

Intelligent Tutoring System

Jens is still trying to get GSU funding for implementing the Intelligent Tutoring System Prototype that he developed for his dissertation. This system teaches the principles for structured programming and can be used as a research vehicle for adaptive user interfaces, intelligent tutoring, etc.

ITS Prototype

A component of the prototype ITS, a "computer simulation", can be used to teach concepts such as loops and conditions. We are planning to implement this system for use with CIS 3260 and test it with students. The goal is to publish the results in a journal article.

The results of an initial test of the system were published in “A User-Acceptance Evaluation of Two Web-based Computer Programming Teaching Tools,” J. Liegle and P. Meso, Presentation and publication in the proceedings of the ISECON Conference, Newport, RI, 2004
.NET and OO Programming

A related study examined the use of .NET for use in the classroom. Peter Meso and Jens Liegle published the results in “Exploratory comparative assessment of .NET as a pedagogical tool for teaching object oriented systems design”. Presentation and publication in the proceedings of the ISECON Conference, San Antonio, TX, Oct 31-Nov 3, 2002 (Peter N. Meso, Jens O. Liegle).

Exposure:

While not an explicit goal, the SIG is proud to announce the recent appointments of two of its members:

Jens Liegle was reelected to the Board of Directors of the EDSIG of the Association of Information Systems Professionals, and Roy Johnson was elected to the Board of Directors of IAIM (International Academy for Information Management), which is now the Educational Special Interest Group of AIS.
Knowledge Management (KM)

Arjan Raven, SIG Knowledge Management Leader

Scope and Aims

The knowledge management SIG focuses on information systems that can support the creation, sharing, dissemination, integration, and application of knowledge. Companies are struggling to find ways in which they can manage and leverage knowledge in a cost-effective manner, and researchers are still trying to identify or establish theories that can describe current practice, and that can guide the development of new practices. Most of the key knowledge management tools were not available 5 years ago, and as we are only slowly learning how they can be used, new technologies are emerging. Knowledge is the main asset for any corporation, and we are only starting to learn how to develop, manage, and apply this asset.

Activities

The SIG KM in 2004 had a number of research projects, with several faculty members and Ph.D. students. Additionally, the CIS 8260/DSC 8030 Knowledge Management Course was updated with new materials.

Research Projects and Publications

Ghiyoung Im and Arjan Raven: “Adaptation of Knowledge Management Systems.”


Arjan Raven: “Shared Knowledge Creation in IT-Enabled Face to Face Meetings.”

Medical Informatics (MI)

Roy Johnson, Coordinator

Scope and Aims

The scope of the Medical Informatics Special Interest Group (MedSIG) is broadly circumscribed by the intersection of information systems applications and the field of medicine. The aim of the group is to stimulate research and practice in innovative, cutting edge applications joining these two fields. The mission of MedSIG is to promote research and professional development in the area of medical information systems. The goal is to have a group of dedicated researchers, industry practitioners, and educators that coalesce to form a dynamic, symbiotic, interactive working group to further knowledge, research and application of Medical Information Systems. The results of these activities are to obtain funding, and to publish and disseminate the results.

Activities

Following is a brief listing of accomplishments by members of the MedSIG:

Grants:

Applied for multiple Grants from the US Department of Education, National Science Foundation, and National Institute of Health. Funding was secured for more than $2,000,000.

Instruction:

Reviewed funding tools for curricular development.

Submitted a joint graduate degree program with Health Administration and CIS. This joint degree has been approved and will be listed in the Graduate Course Catalogue in fall 2005.

Service:

Web site updated.
Mobile and Wireless Information Systems (MWIS)

Upkar Varshney, Coordinator SIGMWIS

The SIG on MWIS is focused on addressing research issues related to mobile and wireless systems. The current members include Upkar Varshney, Punit Ahluwalia, and Sweta Sneha.

The current projects include mobile commerce, group-oriented mobile services, pervasive and mobile healthcare, location management, and transaction quality of service.

Upkar and Richard Baskerville have developed and received approval for an MS emphasis in MWIS with 4 new courses. This will be offered in 2005-2006.

This was the last year for SIG-MWIS. It will evolve into Ubiquitous and Pervasive Systems soon.
Security (Sec)
Carl Stucke (SIGSEC Coordinator)

Scope and Aims
The scope of the SIG embraces an information systems perspective on the management, development and technology of information security in current information architectures. The aim of the group is to address the serious lack of security in today’s inter-networked computing architectures by leveraging established and innovative technologies with innovative systems development methodology and systems management approaches.

The Security Shared Interest Group (SIG) provides a forum for faculty to discuss, plan, and conduct research and curriculum improvement in the broad information security area. The Security SIG mission is to address the serious lack of security in today’s inter-networked computing architectures by leveraging established and innovative technologies with innovative systems development methodology and systems management approaches. The scope of the SIG embraces an information systems perspective on the management, development and technology of information security in current information architectures.

While mainly faculty focused, the Security SIG has provided support for CIS affiliate corporation Chief Information Security Officers and for the Georgia Electronic Commerce Association to discuss and to pursue security and privacy issues. Internally, the SIG has in 2004 sponsored a colloquium with a security focus.

Art Vandenberg (Director of GSU Advanced Campus Services) and Vijay Vaishnavi (also a security SIG member) drive research into several security related areas. Carl Stucke serves as SIG coordinator. Richard Baskerville, Jim Senn, Veda Storey, and Detmar Straub complete the SIG roster. Roy Johnson participates in SIG work from a pedagogy point of view. Andy Snow continues to be a collaborator.

Research Agenda
The SIG’s research topics and activities include Information Security Risk Analysis, National Infrastructure Protection and Homeland Security, Integrating Security into IS Development Methods, Business Survivability, Information Warfare, Security Pedagogy, and the creation of a Security Lab – in the final stages of initial development to support instruction and research (firewalls provided by SnapGear/CyberGuard, a student technology fee grant, and Cisco).

Select SIG group and individual security research activities, working papers, and publications follow.

The Survivability Principle: IT Enabled Dispersal of Corporate Capital. A joint paper by Baskerville, Snow, Straub, and Stucke applies network survivability concepts to the corporation to address heightened corporate desires for business continuity. This paper is currently under consideration for inclusion as a chapter in the upcoming security book Enterprise Information Systems Assurance and System Security: Managerial and Technical Issues being edited by Merrill Warkentin and Rayford B. Vaughn, Mississippi State University

The following are under consideration for inclusion as a chapter in the upcoming security book Information Security Policies and Practices being edited by Detmar Straub, Sy Goodman (Georgia Tech), and Richard Baskerville:


Identity Management including Shibboleth (potential for handling security concerns in virtual community work by Vaishnavi)

Stucke and Vaishnavi participated in GSU’s homeland security working group. Stucke represented GSU at the SURA/CIPP Cyber Security Symposium (SURA: Southeastern Universities Research Association; CIPP: Critical Infrastructure Protection Project) after being nominated by the GSU Vice President for Research and selection by the SURA/CIPP steering committee.

**Curriculum**

An undergraduate course introducing security and privacy (CIS 4680) was proposed, approved, and offered. The purpose of this course is to introduce the business student to the rapidly evolving and critical international arenas of Privacy, Information Security, and Critical Infrastructure. This course is designed to develop knowledge and skills for security of information and information systems within organizations.

A second graduate course in security was defined and received approval for an experimental offering entitled Security of Networked Information Systems, this course provides a managerial perspective of digital networks, network security, and security of networked systems. The student will gain concepts and skills in components, architecture, and configuration of network security within the context of IP networks and networked systems. The course utilizes a security laboratory to reinforce secure networked infrastructure practices that protect networked systems from both accidental and intentional breaches of security within our evermore connected global network. The initial offering is in spring 2005.

Stucke attended the Colloquium for Information Systems Security Education at West Point and the INFOSEC faculty boot camp. He also attended the Information Security Curriculum Development Conference.

Funding from Cisco, SnapGear, and Student Technology Fees combined to support the development of a virtual security lab. The lab has been defined, designed, equipment and software
acquired, protected network connections configured, equipment installed, and initial OS and software installed and is in its first use.

**Visitors and Other Activities**
Richard Baskerville presented Information Warfare at a fall session of the CIS Colloquium Series.

**Projects**
The SIG has variety of research underway with the areas of Business Continuity Planning, SPAM, Information Warfare, and more.

**Technical Assistance**
Carl Stucke also participated in the Georgia Electronic Commerce Association (GECA) privacy working group. Jim Senn and Carl Stucke provided confidential assistance to corporations. The Security SIG began assisting IS&T in maintaining a security awareness site for GSU.
Academic Programs

David McDonald, CIS Departmental Director of Academic Programs

Georgia State University (GSU), as a member institution of the University System of Georgia, serves the people of Georgia, the nation, and the world through education, research, and service. Georgia State University’s vision is “To provide an academic environment conducive to effective and inspired teaching, learning, and scholarship and to be recognized as one of the leading national state-assisted research universities located in an urban setting. This entails having significant state, national, and international roles as well as serving the residents of the metropolitan Atlanta region” (http://www.gsu.edu/~wwwsen/strategic_plan/4.19.html).

The Department of Computer Information Systems’ vision, which is consistent with that of the University, is "To become one of the best computer information system departments in the nation, and to have reached this achievement by drawing strength from the diversity of our faculty and the recognition that technical, developmental, and managerial aspects of information technology are critical to the contributions we make in research, teaching, and professional service. Above all, we will have reached this achievement by fostering a collegial environment where we trust and value each others' contributions, even though our paradigms, training, and the nature of those contributions may have differed."

The academic objectives are to effectively and efficiently use department resources and services to support these visions. The CIS Department seeks to produce the best possible graduate and undergraduate degree programs possible given the limitations and resources within the University System of Georgia. U.S. News & World Report rank our undergraduate program tenth in the nation, while our graduate program is currently ranked eighth.

To achieve these accomplishments, we developed a long-term strategy on which to create a plan. Over the years, the CIS Department has implemented system that would handle the increased in the demand for faculty, students, and facilities we experienced in the last decade. The key to the department’s future will be in our ability to respond quickly to the demands of the marketplace.

Over the last half dozen years, we have instituted many systems that assisted in attaining our vision. Faculty now communicate more frequently amongst themselves to change courses when the marketplace requires them to do so. We have applications that track faculty performance, department resources, and the supply and demand of classes resulting from increased enrollments. The department has created orientation and training programs for faculty and staff. We guarantee our curricula are current through the involvement of active department undergraduate and graduate program committees. The department also strives to hire the best possible instructors, full and part-time, to supplement our faculty.

The CIS Departments believes innovation and the creation of integrated systems will be essential in the coming years. Our immediate goal includes developing the action plan which will take our academic programs to the year 2010 and beyond.

Lastly, the successes we enjoy must be attributed to having one of the finest CIS faculty in the United States. Working together, we have transformed ourselves from a good department to a truly great one. We have responded well to environmental changes by adapting the curricula and adding the necessary technological services and infrastructure. We have directly supported the University vision of supporting an “academic environment conducive to effective and inspired teaching, learning, and scholarship.” In turn, we’ve created our own vision which complements that of the University.
Doctoral Program

Dan Robey, CIS Departmental Director of Doctoral Programs

Overview:

The strategy of the CIS Department with respect to its doctoral major is as follows:

The CIS PhD takes as its mission the production of graduates with a mastery of a large and complex body of knowledge in computer information systems and who are proficient both in teaching techniques and in conducting research in the discipline of computer information systems.

The goal of the program is “to be recognized as one of the leading programs in Computer Information Systems in the world.” This goal is achieved by emphasis on student scholarship and teaching. This report itemizes the achievements towards these goals.

Application, Admissions, and Graduations:

The CIS doctoral program received 102 applications to the CIS major in the College’s doctoral program. Of these, eight were admitted to the CIS major.

Five placements occurred in 2004:

<table>
<thead>
<tr>
<th>Student</th>
<th>Placement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cecil Chua</td>
<td>Nanyang Technological University</td>
</tr>
<tr>
<td>Karlene Cousins</td>
<td>Florida International University</td>
</tr>
<tr>
<td>Han Woo</td>
<td>LeMoyne College</td>
</tr>
<tr>
<td>Peng Xu</td>
<td>University of Massachusetts, Boston</td>
</tr>
<tr>
<td>Gordon DePledge</td>
<td>Wichita State University</td>
</tr>
</tbody>
</table>

One student left the program in 2004 without completion.

The total number of Ph.D. students enrolled in the program at the beginning of the Fall 2004 semester was 26.

Teaching Highlights:

CIS doctoral students taught 38 sections of undergraduate courses during 2004. Four students were selected to receive the competitive Robinson College GTA Excellence Award in 2004: Gayle Beyah, Karlene Cousins, Stacie Petter and Kannan Mohan.
Scholarships and research grants:

Adriane Davis received an SREB Fellowship and the National Science Foundation's Graduate Research Fellowship.

Stephen Du received a GAANN Doctoral Fellowship.

Lily Chen received a GAANN Doctoral Fellowship.

Michael Cuellar received a GAANN Doctoral Fellowship.

Hiro Takeda received a GAANN Doctoral Fellowship.

Nannette Napier received a GAANN Doctoral Fellowship and an SREB Fellowship.

Lei Li received a GSU Brains & Behavior Fellowship.

Research Highlights:


Professional Programs

Eph McLean, CIS Departmental Director of Profession Programs

The CIS Department, in addition to its commitment to scholarly research and teaching, is also extremely active in professional activities.

The premier conference for faculty in the information systems field is the **International Conference on Information Systems** (ICIS), founded in 1980 at UCLA, with three current CIS faculty members, Eph McLean, Jim Senn, Dick Welke, members of the original Organizing Committee. CIS faculty continue to take leadership roles in ICIS. Mark Keil served on the Program Committee and Richard Baskerville, Mike Gallivan, and Arun Rai served as Track Chairs or Co-chairs. Jeff Hubona organized and sponsored the video taping and sale of key ICIS paper sessions and Eph McLean was ICIS Sponsorship Chair as well as being a member of the ICIS Executive Committee. Also, a number of CIS faculty were active in reviewing papers for ICIS.

Other conferences in which CIS faculty are active are:

- **Americas Conference on Information Systems** (AMCIS): Dan Robey, Program Co-chair; Roy Johnson, Track Chair (and also Track Chair at the Pacific Area Conference on Information Systems [PACIS] and Conference Chair of ICIER); Peter Meso, Mini-Track Co-chair (and also a Panelist at the Decision Sciences Institute Conference); and Eph McLean, Sponsorship Chair and member of the AMCIS Executive Committee;
- **INFORMS Conference on Information Systems and Technology**, Mark Keil, Program Committee; and Astrid Lipp, Session Chair;
- **Hawaii International Conference on Systems Sciences (HICSS)**, Bala Ramesh, Track Chair;
- **Workshop on Information Technologies and Systems** (WITS), Veda Storey, member of the Steering Committee (also on the Steering Committee for the Entity-Relational Conference); and Vijay Vaishnavi, Treasurer and Board member;
- **ASSETS Conference**, Melody Moore, Program Committee;
- **ISECON Conference**, Jens Liegle, Conference Committee;
- **ACM Workshop on Human-Computer Interaction** (HCI), Jeff Hubona, Program Committee;
- upcoming **ACM Conference on Computer Personnel Research**, Mike Gallivan, Conference Chair; and finally,

In addition to activities in support of conferences, CIS faculty are also active as members of the editorial board of the leading journals in the information systems field.

- Richard Baskerville is an Editor of the European Journal of Information Systems, the Journal of Information Systems, the Information Systems Journal, and a special issue Senior Editor for the MIS Quarterly. He also serves on the editorial boards of the Electronic Journal for Business Research Methods, the International Journal of E-Collaboration, the Information Systems Journal, and the Journal of Database Management.
- Mike Gallivan is an Associate Editor of Information Technology and People and the Journal of Information Technology.
- Mark Keil is on the editorial boards of IEEE Transactions on Engineering Management and the Journal of MIS.

• Arun Rai is Americas Editor of the *Journal of Strategic Information Systems*, Associate Editor of *Information Systems Research* and the *Journal of AIS*, and special issue Associate Editor for the *MIS Quarterly* and *Information Systems Research*.

• Dan Robey is Editor-in-Chief of *Information and Organization* and on the editorial boards of the *Academy of Management Review, Organization Science, Information Technology & People*, and *Information Technology and Management*.

• Detmar Straub is a Senior Editor of the *Journal of AIS* and *The DATABASE for Advances in Information Systems*, an Associate Editor of *Management Science*, and a special issue Associate Editor for the *MIS Quarterly*.

• Veda Story is a Senior Editor of *MIS Quarterly* and an Associate Editor of *Information Systems Research, Decision Support Systems, Data & Knowledge Engineering*, and the *Journal of Applied Ontologies*.

• Duane Truex is an Associate Editor of the *Information Systems Journal* and a member of the editorial board of the *Scandinavian Journal of Information Systems* and the *Journal of Language Action*.

• Upkar Varshney is a guest Editor of the *Journal on Mobile Networks and Applications* and on the editorial boards of *IEEE Computer, the Communications of AIS, the International Journal on Mobile Communications*, and the *International Journal of Network Management*.

• Dick Welke is on the editorial board of *Decision Support Systems*.

In addition to this service on editorial boards, the CIS faculty, taken together, have performed over a hundred reviews for the journals listed above.

In addition to conferences and journals, CIS have taken leadership roles in professional societies. Detmar Straub is the Vice President for Publications for the Association for Information Systems (AIS) and serves on the AIS Council. Roy Johnson is President-Elect of the International Academy for Information Management and is the IAIM liaison to the AIS Council. Jens Liegle is on the Board of Directors of the Education Special Interest Group of the Association of Information Technology Professionals. Dave McDonald is the immediate past President of the Atlanta Chapter of the Society for Information Management and Eph McLean is a long-time member of the Board. Eph McLean is also the Executive Director of the Association for Information Systems, the world’s leading academic society for information systems faculty members, with over 4,300 members worldwide; and as such he also serves on the AIS Council. AIS has been housed in the CIS Department since 1998 and presently has a three-and-a-half person staff. Eph McLean and the Department also hosts the I/S Executive Roundtable which is comprised of senior I/S executives from leading companies in the Atlanta area.
Association for Information Systems

Founded in 1994, the Association for Information Systems (AIS) is a professional organization, which serves as the premier global organization for academics and graduate students specializing in Information Systems. The mission is to advance knowledge in the use of information technology to improve organizational performance and individual quality of work life. AIS is truly an international organization with a governance structure spanning three international regions, representing the Americas (Region One), Europe and Africa (Region Two), and Asia and the Pacific (Region Three). Each region has two regional representatives on the Council and the President of the Association is chosen from the regions on a rotating basis.

The Computer Information Systems Department currently serves as the home of the AIS administrative offices, established in 1997. The three AIS staff members are also members of the CIS Department staff. The Executive Director of AIS is Dr. Ephraim McLean, Regents' Professor, George E. Smith Eminent Scholar's Chair in Information Systems, and Director of the CIS Departmental Professional Programs.

In 2004 AIS membership increased to 4,300 members worldwide adding chapters in Greece, Japan, and Egypt. Three new Special Interest Groups were also added SIGENTSYS (Enterprise Systems), SIGHealth (IT in Health Care) and SIGRLO (Reusable Learning Objects), SIGGIUIT (Global Improvements Using IT), SIGISAP (IS/IT Issues in Asia Pacific).

Association Facts

Membership

<table>
<thead>
<tr>
<th>Year</th>
<th>2000</th>
<th>2001</th>
<th>2002</th>
<th>2003</th>
<th>2004</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIS Membership</td>
<td>2,000</td>
<td>2,400</td>
<td>2,800</td>
<td>3,400</td>
<td>4,300</td>
</tr>
</tbody>
</table>

AIS Special Interest Groups (SIGs)
SIGABIS (Agent-Based Information Systems)
SIGADIT (Adoption and Diffusion of Information Technology)
SIGASYS (Accounting Information Systems)
SIGCCCRIS (Cross Cultural Research in Information Systems)
SIGDSS (Decision Support, Knowledge, & Data Management)
SIGEBIZ (E-Business)
SIGe-Culture (e-Culture)
SIGeGOV (e-Government Studies)
SIGED: IAIM (Education)
SIGENTSYS (Enterprise Systems)
SIGGIUIT (Global Improvements Using IT)
SIGHCI (Human-Computer Interaction)
SIGHealth (IT in Health Care)
SIGISAP (IS/IT Issues in Asia Pacific)
SIG ISCORE (Info. Systems - Cognitive Research Exchange)
SIGISDC (Information Systems in Developing Countries)
SIG ISO (IS Outsourcing)
SIGITPM (IT Professional Management)
SIGLEAD (Leadership in IT)
SIGODIS (Ontology-Driven Information Systems)
SIGPAM (Process Automation and Management)
SIGPhilosophy (Philosophy and Epistemology in IS)
SIGRLO (Reusable Learning Objects)
SIMGAND (Systems Analysis and Design)
SIGSEC (Security)
SIGSEMIS (Semantic Web and Information Systems)

Membership by Regions

Region 1: The Americas 2817
Region 2: Europe, Middle East, and Africa 768
Region 3: Asia-Pacific 722

AIS Conferences

International Conference on Information Systems (ICIS)
Americas Conference on Information Systems (AMCIS)

AIS Chapters

Australasia Japan
China Korea
Chinese Speaking Latin America & Caribbean
Egypt Morocco
Greece Pakistan
Hawaii Scandinavia
Ireland Slovenia
Israel Southern (USA)
Italy

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Milestones: New Services

In 2004 there existed a severe staff shortage. This staff turnover left the remaining administrative staff, Elizabeth Carpenter, and Carol Patterson to assume the duties of two vacant positions. Staff recruitment efforts were quickly underway and this process resulted with the hire of two new administrative staff, Jessica Burgess, Administrative Assistant and Shyamalie Wijeratne, Administrative Specialist being welcomed to the department.

Milestones: Maintenance of Existing Services

- Successfully coordinated and lead search committee in recruiting efforts for two staff vacancies
- Successfully coordinated and welcomed approximately five scholarly visitors to the department
- All existing administrative services continued throughout the departmental staff shortage period including processing visa and Spectrum paper work for CEPRIN
- Secured and coordinated replacement upgrade color printer in copy room
The CIS Alumni Club was totally revised and energized in 2004. A new slate of officers now manages the Club: Catherine Rohlfing, President; Anil Kapur, Vice President – Membership and Programs; Nick Chapman, Vice President – Technology; Steve Reynolds, Vice President – Secretary, and John Sergo, Vice President – Communications. Jennifer Anderson of the GSU Alumni Association participated on behalf of the University. The membership list, the CIS Alumni database, and the GSU Alumni Association database were all updated and linked for several mailings.

The officers met approximately 10 times in person and numerous times by conference call with the goal to have a first event leading to a vital, vibrant, self-sustaining program. The first part of the goal was met with an introductory event held at the commerce club. The second part will be met and established with our soon to be held second event with a guest speaker dealing with Outsourcing as it relates to CIS.

A special thanks goes out to Richard Baskerville, Dave MacDonald, and Jennifer Anderson for their support and initiatives in making this happen.
Milestones: New Services

- Email: Implemented new Microsoft Exchange server with GFI Spam protection. Initiated user migration from UNIX.
- Wireless: GSU Campus CatChat is available, reducing the cost of maintenance and administration of the previous wireless implementation. Coverage still about 97% of the floor.
- Deployed Secure Server and Desktop Sensors (firewall) on student workstations/servers, a centrally managed server/desktop firewall solution product by ISS.
- DotNET: Added VS.NET 2003 to the list of applications supported in our student server (HOOCH).
- CIS High Tech Interactive Learning Classroom (CS-100): Successfully submitted and implemented Tech-Fee proposal to fund the largest technology enabled classroom on campus. Funding created an “Active Learning Classroom by installing ultra-small factor workstations in CS-100, enabling students to have a “real-time experience” for CIS courses. This project was motivated by a recommendation from external reviewers of the CIS Academic Programs filed with the Provost in 2003.
- CIS Computing Virtual Lab: Successfully submitted and implemented Tech-Fee proposal to fund this innovative approach to enhance student learning by providing a virtual technology classroom instead of a “regular classroom lab. Students are able to use RDC (Remote Desktop Connection) and access any of the lab desktops and specialized software and software development environments. This Virtual Lab supports several virtual workstations and servers that are configured with specialized software to meet requirements of any specific course. This project was motivated by a recommendation from external reviewers of the CIS Academic Programs filed with the Provost in 2003.
- ORACLE: Deployed 9.x server suite in our student server (HOOCH).

Milestones: Maintenance of Existing Services

- MSDNAA: 1,023+ students/faculty are subscribed and 2,378 products downloaded were issues in 2004.
- CIS Tech Support: Continue to provide CIS with 0 (Zero) service complaints through 2004 and 99.99% uptime in all productions servers and services.
- Hooch: successfully recovered server in record time after hackers installed Trojan to destroy the server.
Internship Program

Edward Sudjatmiko, CIS Department Internship Coordinator

Milestones: New Services


7. Established contacts with as many as 43 companies.

8. Deployed internship office website. It has been a crucial tool for establishing communication between employers, students, and the internship coordinator.

9. Established the infrastructure for the internship office. Created forms, packages, fliers, and step-by-step procedures for companies and students to communicate effectively.

10. 33 senior and junior CIS students has responded to our program and expressed their high interest in finding an internship.

Successful Internship Cases

Student Name: Krishnanand Ravikumar
Class: Senior/CIS
Employer: UPS Corporate Headquarters/ Division, E-Solutions

My experience in UPS had been an enriching one, and a learning experience. Being the first real work experience I had in the United States, this internship taught me the corporate culture, business ethos, and the importance of attention to detail. There is one particular instance in my experience with UPS where I was stunned to see how seemingly small matters may go a long way in the department’s success.

I thank both the CIS department and UPS for having provided me with this wonderful opportunity of getting to know more about Corporate America. I am sure this learning experience will go a long way in enriching my career.

Student Name: Maribel Herrera
Class: MS/CIS
Employer: Georgia-Pacific/ Division, Building Products, Department, Information Technology

The CIS internship is a valuable opportunity for CIS students to gain practical, real-world experience in their field of study; as well as a great way to continue to build your business network in the Atlanta metro area.
Faculty Activities

The following pages detail individual accomplishments in the areas of community service, research and teaching. Details are provided for 2004 accomplishments for service and teaching. However, the following listing also details major publication credits for the faculty during the 2002 – 2004 period, including works accepted in 2004 and published in 2004. It does not include media interviews, abstracts, letters to editors, papers presented to meetings not otherwise published, or working papers. Also listed are synthetic research artifacts published, patented, released or publicly demonstrated during this period, and external grant proposals initially funded during this period. Works coauthored or co-PI’ed by more than one CIS faculty member will appear more than once in this listing.
Richard Baskerville

Richard L. Baskerville is professor of information systems and chairman in the Department of Computer Information Systems, College of Business Administration, Georgia State University. His research specializes in security of information systems, methods of information systems design and development, and the interaction of information systems and organizations. His interests in methods extend to qualitative research methods. Baskerville is the author of *Designing Information Systems Security* (J. Wiley) and many articles in scholarly journals, practitioner magazines, and edited books. He is an associate editor of *The Information Systems Journal* and *MIS Quarterly*, and a member of the editorial boards of *The European Journal of Information Systems* and *The Information Resources Management Journal*. Baskerville's practical and consulting experience includes advanced information system designs for the U.S. Defense and Energy Departments. He is former chair of the IFIP Working Group 8.2, a Chartered Engineer under the British Engineering Council, a member of The British Computer Society and Certified Computer Professional by the Institute for Certification of Computer Professionals. Baskerville holds degrees from the University of Maryland (B.S. *summa cum laude*, Management), and the London School of Economics, University of London (M.Sc., Analysis, Design and Management of Information Systems, Ph.D., Systems Analysis).

Recent Service Activities

Chair of the CIS Department, he served on four RCB college committees: Executive, Management Chair Recruiting (chair), Accountancy Director Recruiting, and Strategy Committee. He is a founder and serves as President of Information Systems Academic Heads International. He is an Editor for the *European Journal of IS, IS Journal*, was a Special Senior Editor for *MIS Quarterly*, and served on the Editorial Boards of the *Information Systems Journal, Electronic Journal for Business Research Methods, International Journal of E-Collaboration*, and the *Journal of Database Management*. He was an Associate Editor in the Software Process Track in the International Conference in IS (ICIS). He also served as a member of the Program Committees of the IFIP TC8 Working Conference on Mobile Information Systems(MOBIS) Oslo, Tenth CAiSE/IFIP8.1 International Workshop on Evaluation of Modeling Methods in Systems Analysis and Design Porto, Fourth World Conference on Information Security Education, Moscow, and the European Conference on Information Warfare, Glamorgan. He is a general chair for the 2005 IFIP WG 8.6 Working Conference on Business Agility and IT Diffusion, Atlanta and Doctoral Consortium Chair of the 2006 European Conference on IS.

Recent Research Activities

**Journal Articles**


**Conference Proceedings Papers**


Books and Monographs


Book Reviews and Other Non-Refereed Published Works


Michael Gallivan

Mike Gallivan is an Assistant Professor in the Computer Information Systems Department at the Robinson College of Business at Georgia State University in Atlanta. He holds a Ph.D. from the Sloan School of Management at MIT and, prior to arriving at GSU, he was a Visiting Professor at the Stern School of Business, New York University.

Dr. Gallivan’s research focuses on the individual and organizational factors that influence implementation of technology innovations among managers, IT professionals, and other users. He is interested in individual and group-level learning that occurs within organizations. In one ongoing project, Dr. Gallivan is studying how knowledge workers, such as management consultants, learn to use IT in their jobs. In a second study, he is investigating how organizations can learn to develop effective business partnerships for managing outsourcing.

Dr. Gallivan is interested in human resource issues related to IT professionals, and he is active in a Society of Information Management (SIM) Issues Advocacy Task Force on the IT Workforce Shortage. In addition, he serves as the Treasurer for ACM’s Special Interest Group on Computer Personnel Research conference (SIG CPR), and is on the Editorial Board of Information, Technology & People and Journal of Information Technology.

Recent Service Activities

My primary service activities during 2004 were: (1) I continued to serve as Associate Editor for two journals, Information Technology & People and Journal of Information Technology (where I managed the reviews for 9 papers); (2) I initiated new leadership roles for two academic conferences, including planning the 2005 ACM SIG MIS-CPR conference (for which I am the Conference Chair) and the 2005 ICIS conference (for which I am a Track Co-Chair for the “Social, Behavioral and Organizational Issues” track); (3) I took the initiative to nominate Professor Roy Johnson for the 2004 Innovative Teaching Award – attending the presentations to support Roy in winning this award; (4) I completed my last year as Colloquium Coordinator, relinquishing this role to Mark Keil; (5) I supervised one M.S. student for an internship with BellSouth; (6) I assisted in grading the written/oral comprehensive exams for Ph.D. candidates, (7) I served as reviewer for premier IS journals (where I reviewed 27 manuscripts), and conferences (where I reviewed 9 submissions), and grant applications (3 grants applications); (8) I guest-lectured in Veda Storey’s seminar, discussing the differences between design research and explanatory research; and (9) I guest-lectured in Jim Senn’s course (CIS 8610, Information Technology Strategy).

Recent Research Activities

Journal Articles


Conference Proceedings Papers


Recent Teaching Activities

Dr. Gallivan was one of a small cadre of faculty assigned the task to develop and teach a new MBA course, MBA 8220, “IT for Process Innovation.” For the CIS Department, Mike taught two sections of a similar course, CIS 8160, “Business Process Innovation & Organization Change Management” (which was partially redesigned). In addition, Dr. Gallivan taught a section of CIS 8660, “eCommerce Strategies” and a doctoral seminar, CIS 9260, “Topics in Information Systems Management.” This last course, the doctoral seminar, was developed to provide advanced research methods, statistical tools, and advanced theories not found in existing Ph.D. courses. He identified 5 scholarly readings to cover each following session topic:

Advanced Methods Covered (1 topic per session):
Instrument development and validation
Structural equation modeling (Lisrel, PLS)
Meta-analysis
Hierarchical linear modeling (HLM)
System dynamics
Event study methods
Content analysis
Protocol analysis
Cluster analysis

Advanced Theories Covered (1 topic per session):
Social capital theory
Institutional theory
Absorptive capacity
Process theories (how to build and test)
Dynamic capabilities
Geoffrey Hubona

**Geoffrey Hubona** is an Associate Professor of Computer Information Systems at Georgia State University. He holds degrees from the University of Virginia (BA Psychology 1972), George Mason University (MBA 1979), and the University of South Florida (MA Economics 1990, Ph.D. MIS 1993). Before joining the GSU faculty, Dr. Hubona was an assistant professor of information systems at the University of Maryland Baltimore County (1993-1995), and an assistant professor of information systems at Virginia Commonwealth University (1995-2001). The Naval Research Laboratory and NASA have extensively funded Dr. Hubona to conduct human-computer interaction research. Most of his research involves examining the cognitive processes by which people perceive, filter, interpret, understand, and act on visual and auditory information in their environment. His research has been presented at various international conferences, and has been published in the *International Journal of Human Computer Studies*, *ACM Transactions on Computer-Human Interaction*, and the *Journal of Information Technology Management*. At GSU, he teaches courses on object oriented analysis and design and on principles of human computer interaction. He has consulted extensively with industry, particularly with respect to applying the techniques of the Unified Modeling Language to transition existing legacy system architectures into an object oriented paradigm.

**Recent Service Activities**

Service accomplishments at the departmental level included: (1) participating in the Health Informatics Special Interest Group (SIG); (2) participating as a member of the CIS departmental doctoral committee; and (3) acting as site coordinator for departmental users for the acquisition and management of PLSGRAPH software.


**Recent Research Activities**

**Journal Articles**


“Individual Differences and Usage Behavior: Revisiting a Technology Acceptance Model Assumption” (with Andrew Burton-Jones) accepted for publication in the *DATA BASE for Advances in Information Systems*.
Conference Proceedings Papers


“The Gender Factor Performing Visualization Tasks on Computer Media” (with Greg Shirah) accepted for presentation at HICSS37 (January 2004) and published in the Proceedings of the Thirty-Seventh Annual Hawaii International Conference on System Sciences.

Books and Monographs


“Cultural and Globalization Issues Impacting the Organizational Use of Information Technology” (with D. Truex, J. Wang, and D. Straub) forthcoming book chapter in Advances in Management Information Systems (AMIS) series (M. E. Sharpe, Inc. publisher) on Human-Computer Interaction in Management Information Systems.

“Organizational and Individual Adoption of Assistive Interfaces and Technologies” (with A. Davis) forthcoming book chapter in Advances in Management Information Systems (AMIS) series (M. E. Sharpe, Inc. publisher) on Human-Computer Interaction in Management Information Systems.

Recent Teaching Activities

In the Fall of 2004, Dr. Hubona taught two sections of MBA 8120, “Introduction to Information Systems for MBA students.” Jeff found this course particularly challenging since it was one of the new courses offered in the revamped Robinson College of Business MBA curriculum. However, considering the short time he had to prepare for this course and the large number of students this course draws, Jeff did a remarkably good job. Dr. Hubona recognized that it is his my responsibility to teach classes assigned to him with the best of my ability... and he does so without complaint. In fact, he has volunteered to teach MBA 8120 again in the Fall of 2005.

In addition to the MBA 8120 offerings, Jeff also performed extremely well in teaching CIS 8120 (Principles of Web Design) and CIS 3300 (Systems Analysis), earning evaluations in the 4-5 point range for the key questions posed to students, “How effective did you find this teacher in this course.”

Lastly, Dr. Hubona maintains his support for our student body by serving as a member on a doctoral student’s committee as well as volunteering to mentor a directed readings course for another of our doctoral students. Both of these activities are done on a purely voluntary basis by faculty and Jeff should be congratulated for demonstrating a willingness to help.
Roy Johnson

Roy D. Johnson is an Assistant Professor in the Computer Information Systems (CIS) Department at the Robinson College of Business at Georgia State University. He holds a Ph.D. from the University of Oregon and has teaching experience from pre-school through postgraduate. He has traveled extensively and taught in multiple disciplines on six continents.

Dr. Johnson has taught most of the courses in the CIS curriculum during his 20 year career as a university professor. His current teaching focus is on the C++ Programming Language and Systems Analysis & Design.

Dr. Johnson's research interest is the area of teaching: Critical Thinking, Creativity, and Ethics. These three sub-areas converge when a core problem is discovered and a solution is expressed in a simple but elegant manner (the measure of an educated individual).

Dr. Johnson has been very active in academic and professional organizations. He has held most of the positions available in professional organizations and was the co-founder in 1986 of the International Academy of Information Management (IAIM). The focus of IAIM is pedagogical research in Information Systems. Since its inception, it has met annually with the premier research conference, International Conference on Information Systems.

Recent Service Activities

At the Departmental level, I mentored six doctoral students through the CIS GAP Fellowship program in teaching and research. Five GAP Fellows continue in the program showing great promise. I continue to mentor 12 doctoral students and faculty in teaching. As the MedSIG Chair, I initiated, organized and planned monthly meetings in 2004 and coordinated workshops and the submission of seven grants. As a member of the UCC, I attended all meetings and contributed significantly to the curriculum revision.

At the College level, serve on the Hearings Committee and I volunteered to run for Faculty Senate.

At the University level, I serve as faculty advisor to GSU’s Water Ski Team and I volunteered to serve on the P&T Committee.

At the Professional level, I serve as President-Elect of IAIM, Conference Chair of ICIER, Track Chair of AMCIS and PACIS, was appointed IAIM Liaison to the AIS Council and Regional groups. I also served as a reviewer of research papers and journal articles for attended and participated or presented in the: Departmental Colloquiums, Faculty Development Workshops, and seven different Conferences.

I am deeply involved with my local community and school system through public hearings, the PTA, grant writing, and program evaluation.

Recent Research Activities

Journal Articles


**Conference Proceedings Papers**


**External Grant Awards**

External Grant Awards


External Grant Awards


Recent Teaching Activities

Dr. Johnson has had a banner year in his teaching efforts. To begin with, he received the GSU Instructional Effectiveness Award in March 2004. Subsequently, he drafted a teaching grant proposal, “The Active Learning Classroom for CIS (CS-100),” which was funded through the GSU Technology Fees for $95,100 in April 2004. Most significant, was his role as the principal investigator for the Graduate Assistant for Areas of National Needs (GAANN) TITLE VII Grant, from the US Department of Education entitled: “Computer Information Systems Graduate Advancement Program (CIS GAP).” This grant was funded to the amount of $503,947 for the years 2003-2007.

In order to foster an interactive learning environment, Dr. Johnson focused on the use of teaching objectives and introduced various learning activities that supported collaborative learning. During the semester, each student gained a better understanding of what was expected of him or her and how he or she could become an active learner. Students had the opportunity to solve business problems based on the readings of the day, present their solutions to the class (communication skills building, peer teaching), interpret and test peer group member’s code (peer teaching, collaborative learning), and seek improvements in the overall design (brainstorming, student led discussion). Gradually, he believes that students were moved from individual problem solving to team learning.

Dr. Johnson also taught two doctoral seminars and found them most stimulating. In these seminars, doctoral students attended and critiqued Dr. Johnson’s performance in another class he was assigned, the CIS 3260 (Intro. to Programming) course. The doctoral students were then required to make a teaching presentation to the undergraduate class which was also filmed. Utilizing the video tape, the doctoral students critiqued themselves and received feedback from their seminar peers and as well as from Dr. Johnson, himself. Multiple pedagogical approaches were examined and learning research methods were presented by the doctoral students during the seminar. Each doctoral student kept journals throughout the term and submitted along with a summary of his or her learning at the end of the term.
Mark Keil

Mark Keil is a Professor of Computer Information Systems (CIS) in the J. Mack Robinson College of Business at Georgia State University. He joined the CIS faculty in 1991 and has taught in the MBA and EMBA programs at Georgia State as well as in the undergraduate, masters, and doctoral degree programs in CIS. In 1994, he received a Faculty Recognition Award for Outstanding Teaching. Keil’s research focuses on software project management, with particular emphasis on preventing software project escalation, providing better tools for assessing software project risk, and removing barriers to software use. His research has been published in *MIS Quarterly, Journal of Management Information Systems, Sloan Management Review, IEEE Transactions on Engineering Management,* and many other journals. In 2000, he received the J. Mack Robinson College of Business Faculty Recognition Award for Distinguished Contributions in Research. He currently serves on the editorial board of *IEEE Transactions on Engineering Management.* He has also served as an Associate Editor for *MIS Quarterly,* and as Co-Editor of *The DATA BASE for Advances in Information Systems.* Keil has been active in the Academy of Management and currently serves as Past Division Chair of the Organizational Communication and Information Systems (OCIS) Division. He earned his bachelor’s degree from Princeton University, his master's degree from MIT’s Sloan School of Management, and his doctorate in management information systems from the Harvard Business School.

Recent Service Activities

During 2004, Keil’s research was presented at the Academy of Management Meeting, the Americas Conference on Information Systems (AMCIS), the MISRC/CRITOS Symposium on the Digital Divide, and the IFIP 8.2 OASIS 2004 Workshop. He also delivered an invited presentation at Indiana University’s Kelley School of Business. Keil served on the Program Committees for the International Conference on Information Systems (ICIS) and the INFORMS Conference on Information Systems & Technology (CIST). During 2004, he served on the editorial boards of *IEEE Transactions on Engineering Management and the Journal of Management Information Systems.* He also served as a reviewer for numerous journals within the IS field. Within the Robinson College of Business, he served on the Graduate Program Council (GPC) and the RCB Planning Committee. Within the CIS Department, he served as acting chair of the Promotion & Tenure Committee, and colloquium series organizer. During the year he also served on numerous PhD dissertation committees as well as many departmental committees including the CIS Doctoral Program Committee, the PhD Admissions Committee, and the CIS Graduate Program Committee.

Recent Research Activities

Journal Articles


**Conference Proceedings Papers**


**Books and Monographs**


**Recent Teaching Activities**

Dr. Keil has, once again, primarily taught CIS 8150, the “IT Project Management” course. As always, his evaluations are excellent ranging in the 4.5 – 5.0 range for effectiveness. Additionally, Mark taught a doctoral seminar in the Spring of 2004. In the CIS 8150 course, Mark made significant improvements this course. He added new lecture material on learning from engineering failures, project risk management, and post mortem evaluation. He significantly enhanced one of the individual assignments by using Risk+ and Monte Carlo analysis of schedule risk. Moreover, he modified and enhanced four other individual assignments using Microsoft Project™, WBS Chart-Pro™, PERT Chart EXPERT™, and COCOMO II. Dr. Keil also modified the group assignment by including post-project audits.

Lastly, Mark upgraded the technology in the course by migrating from Microsoft Project 2002™ to
Microsoft Project 2003™ and migrating the course from Web-ct CE to Web-ct VISTA. He plans to use these new delivery platforms for all handouts, course assignments, and grades in the 2005 offering.

Perhaps Dr. Keil’s greatest contribution to the department is how well respected he is by those doctoral students on their journey to attain their Ph.D. degree. Last year Mark served on seven different doctoral committees, chairing two of them. Of these, four of the students successfully defended their dissertations last year. The strength and quality of the doctoral program and the students matriculating from this program can be directly attributed to Dr. Keil’s unique talent of transferring his tremendous skills to those who are lucky enough to become one of his students. If this weren’t enough, Mark also found time to serve as an external expert reviewer for an Australian Ph.D. candidate.
Jens Liegle is Assistant Professor in the Department of Computer Information Systems at Georgia State University. His research focuses on Intelligent Tutoring Systems and Web/computer based training systems. He holds a Ph.D. in MIS from Kent State University, an MBA from the University of Akron, and a Diploma in Betriebswirtschaftslehre (FH) from the Pforzheim Business School. He has written a book chapter on Web-Based Instructions Systems in Distance Learning Technologies: Trends and Opportunities, and published in the Academy of Educational Leadership Journal and the Journal of Systems and Software. Jens Liegle is currently in charge of the C++ programming courses of the CIS department.

Recent Service Activities

In my role as a member of the UPC, Peter Meso and I together proposed the framework for the overhaul of the undergraduate program, including the concept of tracks and an increase in the number of electives for students. The majority of our ideas are reflected in the overhaul of the undergraduate program, with students, the department, and the university being the beneficiaries.

In my role as a member of the board of directors of the EdSIG of AITP, I have helped to make the ISECON conference in Rhode Island a success. I was the new vendors chair, and successfully attracted four vendors to the conference, where there were none in the previous three years.

Recent Research Activities

**Journal Articles**


**Conference Proceedings Papers**


Liegle, J. and Johnson R. “A Review of Premier Information Systems Journals for Pedagogical Orientation.” Presentation and publication in the proceedings of the ISECON Conference, San Diego, CA, Nov. 6-9, 2003


Books and Monographs

Jens O. Liegle and Thomas N. Janicki “The effect of learning styles on the navigation needs of Web-based learners,” In Press, Available online 10 April 2004

Recent Teaching Activities

Dr. Liegle should be recognized as one who is always willing to give of himself for the sake of the Department. This past year, Dr. Liegle took on the amazing challenge to teach three different courses; CIS 3260, “Introduction to Programming in C/C++,” CIS 8120, “Principles of Web Design,” and CIS 8470, “eCommerce Applications,” the last of which he had only three days to prepare. This self-effacing attitude makes Jens one of the favorite instructors in the CIS Department.

Jens was a major player with G. Hubona in the effort to change the focus, course title, and catalog description of CIS 8120 “Principles of Web Design”. He was responsible for writing the new model syllabus as well as the new catalog description. From the knowledge he and Dr. Hubona made in their first effort with the new approach in Spring 2004, significant changes were made to the course content and the lecture notes. These changes obviously had a positive effect with a significant improvement in the course evaluations from the Summer 2004 semester.

It should also be noted that in the Summer of 2004, Dr. Liegle changed a significant portion of CIS 3260 to modernize it. He introduced Windows API style programming instead of focusing on pointers. He was also able to secure access to a computer lab for a number of sessions towards the end of the course, which enabled him to provide more “handholding” for students during in-class exercises. Students generally appreciate this type of learning environment, as was reflected in their extremely high evaluations of this course.
Astrid Lipp is an Assistant Professor in the Department of Computer Information Systems at Georgia State University. She received an A.B. in German from Bryn Mawr College, as well as an M.A. and Ph.D. in German Language and Literature from the University of Connecticut. She taught German classes at the Waterbury Branch of the University of Connecticut and the University of Georgia. She has also worked as a registered representative for an investment company, served as an in-house translator and interpreter, and assisted in the design and implementation of an information system. In 1993, she received her Ph.D. in Management Information Systems from The University of Georgia. She taught at Clemson University before arriving at GSU in 1998. At GSU, she has served as the coordinator for sections of CIS 3210 and taught CIS 8650 (Information Technology and Collaborative Work). In 2001, she co-developed a second course in the visual programming series. Her research has focused on decision support systems, expert systems, group support systems, and cognitive mapping. She has contributed a chapter to a book called Questions and Information Systems, published articles in The Journal of Management Information Systems and presented papers at The Hawaii International Conference on System Sciences.

Recent Service Activities
I have continued to lead the CIS Department's transition to .NET by sharing materials and advice with colleagues. Periodically I receive inquiries about faculty.

As one of the first faculty members at Georgia State to use vClass, I shared student feedback and my own experiences with the GSU vClass administrator and colleagues. I regularly advised Yide Shen during her first semester of teaching. I also occasionally answer faculty questions about cognitive mapping.

As the department's volunteer for the GSU Annual Giving, I provided refreshments for a CIS colloquium and hosted a wine tasting party to encourage donations.

After agreeing to chair the CIS Student Recruitment Committee, I met with Dr. Baskerville to discuss the issues involved, possible strategies, resources available, and which faculty members should be asked to serve on the committee and investigated what other programs do.

I also served as Faculty Advisor to the Kappa Chapter of Delta Sigma Pi. Service to the profession included reviewing an ASP.NET textbook outline for Wiley, as well as organizing and chairing a session at INFORMS.

Recent Research Activities

Conference Proceedings Paper
Recent Teaching Activities

In 2004, Dr. Astrid Lipp expanded her own personal teaching skills by taking on the teaching responsibilities for a course new to her, CIS 8110, “Information Technology Fundamentals.” She taught two sections of this course in addition to CIS 3210, “An End-user Application Programming,” and CIS 8650, “Information Technology and the Collaborative Workplace.” For any assigned course, Dr. Lipp always gives 100% of her efforts to ensure a quality learning experience for her students.

In CIS 8650, Astrid was one of the first faculty members to use a new computer conferencing software program called vClass. Beginning with the CIS 8650 course in the spring of 2004 she used vClass for about half of the class sessions. The use of this tool enabled CIS 8650 students to interact with Fran Ackermann, a renown CIS professor, Keith Dean, the gentleman in charge of collaboration technologies for the Department of Defense, and David Coleman, who is a longtime consultant on the implementation of collaboration technologies. These “guest lecturers” are based in Scotland, Virginia, and California, respectively. In fact, one of Dr. Lipp’s classes was held virtually with vClass when she was attending a conference in Denver, Co. Rather than having to cancel the class, or bring in another instructor who is generally out-of-synch with where in the material and what the current subject a class working on, this innovative use of vClass allowed for a continuous flow of the course without the normal disruptions one usually anticipates when attending a conference. In fact, Astrid’s use of of vClass was the focus of an article in GSU’s UETS’s In-Focus publication.

Perhaps more importantly, the valuable insights Dr. Lipp has gained by using this new tool have been shared with her colleagues. Drs. Ramesh and Stucke and Carol Patterson have all been given a “primer” on the use of vClass. Improved faculty communications and a “best practices” article have been unanticipated benefits that have been derived directly from Astrid’s willingness to take the time and effort needed to make use of innovative technologies in her classroom.
**Lars Mathiassen**, is Georgia Research Alliance Eminent Scholar and Professor of Digital Commerce in the eCommerce Institute and the Computer Information Systems Department at J. Mack Robinson College of Business at Georgia State University. He is also Director for the University’s Center for Digital Commerce. His research focuses on development of information services and on management and facilitation of change processes enabled by information technology. He approaches innovation and improvement initiatives with a strong focus on people skills and collaborative processes while at the same time emphasizing adoption of state-of-the-art technologies and methods. He has co-authored several books including *Professional Systems Development; Computers in Context: The Philosophy and Practice of Systems Design; Object Oriented Analysis & Design; and Improving Software Organizations: From Principles to Practice*. He has also published extensively in leading academic and practitioner journals, including *Accounting, Management and Information Technologies, Communications of the ACM, Information Systems Journal, Information Systems Research, Information, Technology and People, Journal of Information Technology, IEEE Software* and several others. The philosophy underlying his research is presented in a number of contributions as *Reflective Systems Development*. The related research activities are mostly carried out in close collaboration with practicing IT-professionals and their organizations. That has led to the development of a practice oriented research approach called *Collaborative Practice Research*.

**Recent Service Activities**

Together with Professors Arun Rai and Richard Welke I have designed and successfully initiated the Center for Process Innovation at RCB. We were engaged in a first large R&D project with Garner in 2004. We are currently engaged in R&D collaboration with UPS, Byers Engineering and Medical College of Georgia. At this point we negotiate further collaborations with Centers for Disease Control and Prevention and with Intel.

Together with Professors Richard Baskerville (GSU) and Jan Pries-Heje (IT-University, Denmark) I will organize and chair the IFIP 8.6 Conference on “IT Diffusion & Organizational Agility” in May 2005 here at GSU.

I’m currently engaged with Professors Richard Baskerville and Duane Truex in developing and implementing the CIS Re-invention Program 2005-2007.

I was member of the search committee for the new Board of Advisors Professorship in CIS (2004).

I was member of the sub-committee that evaluated Mike Gallivan for tenure promotion.

I participated in the evaluation of all P&T cases within CIS.

In 2004, I organized visits to the Center for Process Innovation and CIS for

PhD student Tuure Tuunanen, Helsinki School of Economics
Anna Börjesson, Ericsson, Gothenburg, Sweden.
PhD student Søren Sohl, Computer Science Department, Aalborg University, Denmark.
PhD student Marianne Vainio, Helsinki School of Economics, Helsinki, Finland.
PhD student Carl Magnus Olsson, Viktoria Institute, Gothenburg, Sweden.
Recent Research Activities

**Journal Articles**


**Conference Proceedings Papers**


Books and Monographs

Mathiassen, Lars, Jan Pries-Heje and Ojelanki Ngwenyama (Eds.), “Improving Software Organizations—From Principles to Practice.” Addison-Wesley (2002).


Mathiassen, Lars, Gro Bjerknes and Carsten Kristensen, “Improving Customer Relations.” In: Lars Mathiassen, Jan Pries-Heje and Ojelanki Ngwenyama (Eds.), “Improving Software Organizations—From Principles to Practice.” Addison-Wesley (2002).


External Grant Awards

“Mobile, Multimedia based Information Services to Improve Healthcare Performance”, $70,000 for 2003 and $75,000 for 2004 (with Professor Nikil Jayant, Georgia Tech, and Professor Max Stachura, Medical Center of Georgia).

“Software Requirements Management”, $15,000 from Byers Engineering (2005)
Gartner sponsorship $5,000 (IFIP 8.6 Conference, Atlanta 2005)
Intel sponsorship $5,000 (IFIP 8.6 Conference, Atlanta 2005)
Microsoft sponsorship $2,500 (IFIP 8.6 Conference, Atlanta 2005)

Recent Teaching Activities

Dr. Mathiassen is a recent addition to the CIS Department's faculty. As a world-renown lecturer and researcher, we are indeed fortunate to have attracted such a talented individual to our department. This past year marked the first time Lars taught for us. Typically, faculty that are new to our University go through a period of adjustment and often get lower student evaluations. However, Dr. Mathiassen quickly acclimated to GSU and had respectable evaluations in the 4.0-5.0 range for the two sections of CIS 8150 he taught. Undoubtedly, as he becomes more acquainted with the Department, the course, and our students' expectations, his evaluations will continue to rise to a point where he is one of the top performers in the department.

Additionally, Dr. Mathiassen gave time from his busy schedule to mentor two Ph.D. directed readings courses. The first entitled, “The Service concept within Information Systems Research” and the second, “SCOR modeling and Supply Chain Management” Moreover, Lars continues to maintain his connection with the European educational community acting as a doctoral supervisor for four Ph.D. students. He also helped in the creation of two new courses for the redesigned MBA program scheduled to go into effect by the Fall of 2004.
David McDonald

David McDonald is an Associate Professor and the Academic Program Director for the Department of Computer Information Systems at Georgia State University. His primary responsibility is the management of the BBA, MBA, and MS degrees in Information Systems. His teaching interests encompass a wide variety of subjects, including database management systems, end-user application development, visual programming, multimedia system development, and information technology infrastructures. His research is practitioner-oriented, focusing on e-Commerce issues. For the past two years, he has created reports on e-Commerce for the Board of Regents and Governor Barnes. He is also very active in the business community, currently serving on the Board of Directors for the Atlanta chapter of the Society for Information Managers (SIM).

Recent Service Activities

I was fortunate to achieve almost all of my service goals for this past year. I have successfully leveraged my relationship with Microsoft to the Department and University’s advantage. A number of our faculty and technical support personnel now have consistent dialogs with Microsoft. Georgia State University was the host for Microsoft’s programming contest for the southern region.

Moreover, we now have a site-license for IBM’s Websphere suite of applications. As part of my efforts to establish a relationship with IBM’s academic division, I was able to provide our faculty with a two-day training session on the Websphere product.

Along with Dr. John Sergo, the CIS Department Alumni organization has a new board of directors. A new slate of programs are planned for the coming year. I intend to be actively involved in this essential organization.

Finally, I am proud to be an active member in the Society for Information Management (SIM) as well as serving on the Technology Association of Georgia’s (TAG) education committee.

Recent Research Activities

Journal Articles


Conference Proceedings Papers


Books and Monographs

McDonald, D.S., Case, T.L., & McLean, E.R., Attracting High Technology Firms to Georgia, an Intellectual Capital Partnership Program (ICAPP) report prepared for Governor Barnes, the Georgia State Legislators, the Board of Regents, and the University System Presidents, September, 2000 (EC)

Recent Teaching Activities

For the past eight years, Dr. McDonald has served as the Academic Program Director for the CIS Department. As such, he is responsible for the BBA, MBA, and MS degree programs. In six of these eight years, our programs have received national attention. In 2004, our undergraduate program was ranked tenth in the nation, while during this same year, our graduate program was ranked eighth.

This past year, Dr. McDonald taught CIS 3215, “Intermediate Visual Programming,” CIS 3730, an “Introduction to Database Management Systems,” and CIS 8140, the graduate version of an “Introduction to DBMS.” Dr. McDonald firmly believes that the tools used in the classroom should be the same tools a student is likely to encounter when they approach the job market. As such, the CIS 3215 course is taught using both the Visual Studio.NET programming environment and Microsoft’s SQL Server 2000 Enterprise database, while both database courses make use of the client and server modules of Oracle, the world’s leading DBMS product. It is his philosophy to expose the students to more than one enterprise database product, further strengthening his assertion to his students that it is more important to understand the concepts we teach…i.e., the tools are easy to understand and use if one has a good grasp of a conceptual foundation.

Dr. McDonald is also continuing his multi-year, cross-departmental effort to institute a mechanism to test and enforce computer literacy…first, for the Robinson College of Business, and then, for the entire student population of Georgia State University. In a recent research effort, Dr. McDonald discovered that 38% of all business schools in the United States that offer both graduate and undergraduate business degrees now have in-place testing programs for computer literacy. In 2004, Dr. McDonald and Therese Viscelli began anew another approach to create such a testing program for the College. This will be a high priority for Dr. McDonald in the coming year.

Perhaps Dr. McDonald’s most significant contribution this past year was in overseeing the complete restructuring of both the graduate and undergraduate degree programs. With the help of virtually all the faculty, the new graduate program was approved in the Fall 2004 RCB faculty meeting and is scheduled for implementation in the Fall of 2005. The structure, design, and most of the documentation for the undergraduate program changes were finished in 2004. In 2005, Dr. McDonald will present them to the College for final approval. Implementation should begin in the Spring semester of 2006.

Finally, Dr. McDonald is also very much involved in community outreach, both to the public and private sector. The genesis of a “Speakers Bureau” began in 2004 with limited success. These small successes are the seeds necessary to germinate the planned effort to bring more of public and private IT executives into our classrooms to enhance the quality of all our degree programs. Additionally, Dr. McDonald was instrumental in inviting IBM to our campus to provide faculty with training on IBM Websphere, their latest tools currently in use by many major corporations. This is an extension of the prior year’s training effort when he invited Microsoft to campus to provide a similar training program for the Visual Studio.Net product.
Emphraim R. McLean is a Regents Professor and holder of the George E. Smith Eminent Scholar’s Chair. Prior to joining the GSU faculty in 1987, he was on the faculty at UCLA for 18 years; and before that he worked for seven years for Procter & Gamble, primarily doing manufacturing management and information systems work. He has published over 125 articles in such publications as the Harvard Business Review, Sloan Management Review, California Management Review, MIS Quarterly, Information Systems Research, Management Science, Journal of MIS, Communications of the ACM, and the Proceedings of ICIS, ECIS, HICSS, and AMCIS. He is the co-author or co-editor of seven books, including Strategic Planning for MIS, Management of Information Systems, and Information Technology for Management. He was a founding Associate Editor of the MIS Quarterly and for seven years was the Co-Editor-in-Chief of DATABASE. His teaching and research interests include I/S planning, management of information services, measuring the value of I/S, careers in I/S leadership. In 1980, Dr. McLean hosted and chaired the organizing committee for the International Conference on Information Systems (ICIS) and was three times ICIS Conference Chair or Co-chair. He was also instrumental in the founding of the Association for Information Systems (AIS) and currently serves as the AIS Executive Director. He has served four times on the Executive Council of the Society for Information Management (SIM) and is currently the SIM Vice President for Academic Affairs. He earned his B.M.E. at Cornell University and his S.M. and Ph.D. degrees at M.I.T.’s Sloan School of Management.

Recent Service Activities

I am continuing as the Executive Director of the Association for Information Systems, the leading society for information systems academics in the world. With over 4,300 members, a budget of $1.4 million, and a staff of three-and-a-half people, these duties occupy nearly a third of my time. I also play a significant role in two major AIS conferences, the Americas Conference on Information Systems and the International Conference on Information Systems. I am also on the Organizing Committee of the European Conference on Information Systems.

In Atlanta, I am on the Executive Committee of the M.I.T. Enterprise Forum and last summer I completed four years of service as a member of the Board of the Atlanta Chapter of the Society for Information Management.

At the university level, I am a member of the Long Range Planning Committee and the Campus Liaison Officer for ICAPP. I am also a member of the Robinson College Long Range Planning Committee.

For the CIS Department, I organize and host the I/S Executive Roundtable, now in its 13th year, and serve on five departmental committees as well as being the Director of Professional Programs for the Department.
Recent Research Activities

Journal Articles


Luftman, Jerry and McLean, Ephraim R. “Key Issues for IT Executives.” MIS Quarterly Executive, 3 (2), (June 2004): 89-104.


Conference Proceedings Papers


DeLone, William, and McLean, Ephraim R., “Information Systems Success Revisited.” Proceedings of the Thirty-Fifth Hawaii International Conference on System Sciences, (January 2002). This paper was nominated for the conference Best Paper Award.


Books and Monographs


**Book Reviews and Other Non-Refereed Published Works**

“IS Educator of the Year Address,” (electronic presentation) ISECON Conference of the Education Special Interest Group (ESIG) of the Association of Information Technology Professionals (AITP), San Diego, CA, November 8, 2003.

**Recent Teaching Activities**

Dr. McLean epitomizes quality in a professor. He was the Department’s first recipient of the Myron Greene Teacher of the Year Award…and rightfully so. He consistently takes on courses that may be onerous to other faculty, and creates a truly magnificent learning experience for his students. This past year was no exception. Eph taught CIS 8620, “Management of Information Services” and CIS 4620, the new, undergraduate version of “Management of Information Services.”

Unfortunately, passion is not often associated with university professors’ teaching efforts. Most faculty live by the dictum, “publish or perish” and, therefore, most of their time and effort is spent doing research. What separates a good professor from a great professor is that they are able to be passionate not only about their research, but also about the quality of their teaching and the service they give back to their profession. Dr. McLean epitomizes what is takes to be a great professor. He is a mentor in the true sense of the word. Although he taught essentially the same course for all of last year, he was able to make each session fresh, informative, and exciting for his students. The averages for his six sections on how effective the students felt the instructor and the course were both in the 4.5 to 5.0 range. This is remarkable considering this is a professor that has long-ago established his reputation. His passion for teaching is clearly evident when one is lucky enough to sit in on any of his classes. The by-product is that his students “catch” the same excitement that he generates during his lectures.
Peter Meso

Peter Meso is an Assistant Professor of Information Systems at Georgia State University. His current research deals with the contributions of requirements and software engineering in knowledge management, the processes of system development and implementation, consequences of information systems in underdeveloped nations, and emergent business information systems and infrastructure. He earned his PhD degree in Information Systems from Kent State University, and holds a Bachelor of Science (Information systems) and an MBA degree from the United States International University - Africa. His published works have appeared in the Journal of Knowledge Management and the Journal of Global Information Technology, among others. Meso has served on the Faculties of Kent State University, Kenyatta University (Kenya) and the United States International University-Africa (Kenya). He teaches courses, at Georgia State University, in the area of systems development.

Recent Service Activities

Last year I had six journal articles and five conference proceedings accepted for publication. Together with eminent scholars in Global information Technology, including Dr. Eileen Trauth, Dr. Roberto Evaristo, Dr. Peter Wolcott, Dr. Michael Best, Dr. Ken Kramer, Dr. Lynette Kvasny, Dr. Philip Musa, Dr. Victor Mbarika, Dr. Karen Loch and Dr. Detmar Straub, I was an invited subject-matter expert panelist in the 2004 FORUM ON ADVANCING THEORY ON NATIONAL IT POLICY organized by ACIT-APIT (http://dstraub.cis.gsu.edu:88/acit-apit/) in Cairo, Egypt. I participated in the same capacity at a panel on the digitization of government services in the developing countries at the National Conference of the Decision Sciences Institute, held in Boston, USA. I also served as the mini-track co-chair for Information technology Issues in Developing Countries at the 2004 American Conference on Information Systems (AMCIS).

I continued to serve on the graduate programs committee, the scholarships committee, the college level faculty hearings committee, as department’s faculty advisor of the ACM students chapter at GSU, and as the faculty coordinator of the CIS tutor program.

My reviewing services were rendered to the CACM, IEEE Technology Policy, EJISDC, and the 2004 conferences of ICIS, AMCIS, HICCS, DSI, IRMA, and ISECON among others.

Recent Research Activities

Journal Articles


Meso, P., Musa, P., Mbarika, V., Towards a Model of Consumer Use of Mobile Information and Communication Technology in LDCs: The Case of Sub-Saharan Africa Information Systems Journal, in press


Meso, Peter, Ricardo M. Checchi, Galen R. Sevcik, Karen D. Loch and Detmar W. Straub, "Knowledge Spheres and the Diffusion of National IT Policies", *Electronic Journal of Information Systems in Developing Countries*. Accepted, some minor revision necessary before it can be published.


Musa, P., Meso., P., Mbarika, V., Calling For Programmed Technology Transfer And Adoption Strategies For Sustainable Growth of World’s Least Developed Countries, *Communications of the ACM*, in press

**Conference Proceedings Papers**


Books and Monographs


Recent Teaching Activities

In addition to teaching his usual CIS 3310 (Systems Design) course, Dr. Meso was assigned two new courses in 2004. Both of these courses required a technically challenged preparation. CIS3280, “Object-oriented Programming in C++” especially required many more than normal preparation hours, since, unfortunately, this course was assigned to Peter with just over a week prior to the start of the semester. This meant that Dr. Meso had to review and update his C++ skills, as well as familiarize himself with the tools the Department currently uses to teach this course (i.e., the integrated development environment (IDE)).

To improve the quality of his CIS 3310 course as well as his overall teaching quality, Dr. Meso should be applauded for his efforts to seek out and utilize the resources afforded to all our faculty. Peter regularly met with Dr. Baskerville, Dr. Roy Johnson and his mentor, Dr. Straub. Many of their suggestions were implemented in the spring semester of last year. The changes deemed relatively drastic, clearly impacted students’ opinions of the course. Dr. Meso readily admits that building on the suggestions received from the his colleagues clearly resulted in higher opinions of the courses by the students.

Dr. Meso also spent time redesigning the CIS 3295 course, “Web Application Development.” Due to low enrollments, this course had not been offered by the department for over three years. When last taught, the course focused heavily on a single technology product – Cold Fusion. Dr. Meso decided to move away from a product/tool and move toward a more modern, concept-based syllabus. This required a change to the course text, enhancing the overall coverage to include all key Web technologies such as XHTML, XML, PHP, and Perl as well as discussing newer tools that do a better job in clarifying Web-based conceptual technologies. Multimedia Development tools such as Macromedia Flash, Adobe Photoshop, JavaScript, and all the core Java components were included. This necessitated a re-ordering of the coverage of the key topics to ensure that topics are aligned with key concepts of J2EE-based programming for the Internet or a Web-based environment. Additionally, Peter emphasized concepts of server-side programming and application deployment. With these topics included, Dr. Meso was then able to have students set up and manage web-servers, and require them to complete a project involving the development of a 2-tier web-application utilizing a real business problem.

Finally, Dr. Meso is always willing to give his time to assist those students requiring volunteer-time from faculty. As such, Peter served as a mentor for a student’s internship experience (CIS 4970). This is done without any additional compensation. Similarly, Dr. Meso served on two doctoral students dissertation committees, both of whom successfully defended their dissertations last year.
Melody Moore

Melody Moore is an Assistant Professor in the Computer Information Systems Department of the College of Business Administration at Georgia State University. Dr. Moore holds a Ph.D. in Computer Science from the Georgia Institute of Technology (1998). Her dissertation work in user interface reengineering combined the areas of Human-Computer Interface and Software Engineering, and her minor was Postsecondary Education. Dr. Moore also holds a B.A. in Computer Science with a minor in Business Administration from The University of Texas at Austin (1980), and the M.S. of Information and Computer Science from Georgia Tech (1988).

Dr. Moore is currently the director of the GSU BrainLab, whose mission is to research innovative human-computer interaction for people with severe disabilities. Dr. Moore’s work focuses on studying real-world applications for direct brain interfaces as well as biometric interfaces. She also maintains a strong interest in software evolution technologies, and is currently working on context-dependent user interface reengineering.

Prior to GSU, Dr. Moore was on the faculty of the College of Computing at Georgia Tech for nine years as a Research Scientist, creating and directing the Open Systems lab, and teaching Software Engineering.

Before coming to academia, she worked for nine years in industry as a professional software engineer developing real-time embedded systems, secure operating systems, networking, and compilers. Companies included Texas Instruments, Sperry, and National Semiconductor.

Recent Service Activities

In 2004, Dr. Melody Moore was appointed to the GSU Senate and now serves on the Research Committee. She has a leadership role in the GSU Brains and Behaviors program, coordinating the “Brains and Computers” group. She participated in several proposal review committees for the National Science Foundation. She has served as a reviewer for several journals, including IEEE Transactions on Neural Systems and Rehabilitation Engineering, the Journal of Automated Software Engineering, and others. She has participated on the program committees for the ASSETS conference (including the doctoral consortium) and the Rehabilitation Engineering Society of North America.

At GSU, Dr. Moore continues to direct the BrainLab, a biometrics research laboratory in the CIS department focusing on providing quality-of-life applications for people with severe disabilities. She was an active participant in the Biomedical Informatics Special Interest Group, and has also been a member of the undergraduate curriculum committee.

In the community, Dr. Moore continues to support the Canine Companions for Independence champion's group, devoted to providing highly skilled assistance dogs to people with physical disabilities.
Recent Research Activities

Journal Articles


Conference Proceedings Papers


Moore, Melody and Kirby, Todd. “Human-Computer Interaction Research at the GSU BrainLab”, in the Proceedings of the Second International Meeting of


Books and Monographs


Book Reviews and Other Non-Refereed Published Works


External Grant Awards

"General Purpose Brain-Computer Interface", National Institutes of Health NINDS, PI: Jonathan Wolpaw (Wadsworth center, prime), Melody Moore (GSU PI), Neils Birbaumer (Univ of Tuebingen, Germany), Funded at $4.6 million for team, GSU portion $477,000, 11/01/02 – 10/31/07

"Human-Centered Design of Context-Aware Computing: Scalability, Usability, and Privacy", National Science Foundation (IIS CISE ITR Program), PI: James Landay, Jennifer Mankoff et al (UC Berkeley), Melody Moore (GSU subcontract), Funded at $2.3 million for team, GSU portion $240,000, 11/01/02 – 10/31/07

“Rehabilitation Engineering Research Center for WorkPlace Accomodations” National Institute for Disability and Rehabilitation Research (NIDRR), PI: Karen Milchus (Georgia Tech, prime) and John Sanford (Shepherd Spinal Center), Melody Moore (GSU subcontract), Funded at $4.5 million for team, GSU portion $261,000 for 3 years, 11/01/02 – 10/31/05

Synthetic Research Artifacts

BioGauges – a biofeedback and training experimental system to determine the most effective ways of presenting information to a user in order to learn brain signal control. Students: Adriane Davis, Umang Dua, Luke McCampbell, Mike Smith. Collaborators: Dr. Steve Mason, Dr. Gary Birch, Neil Squire Foundation, Vancouver Canada. Sponsor: National Science Foundation Universal Access Program.

Neural Prosthetics – control of a robotic arm from brain signals, using a continuous transducer based on the mu rhythm field potential (noninvasive EEG). Collaborators: Dr. John Wolpaw, Dr. Dennis McFarland, Wadsworth Center, Albany NY. Students: Janki Vora, Gopi Vora, Neuroscientist Brendan Allison. Sponsor: National Institutes of Health, NINDS

Galvanic Skin Response (GSR) communication system – a biometric communication system based on galvanic skin response (conductivity) using a commercial polygraph machine transducer.
Currently performing a study with three completely locked-in patients, and have succeeded in demonstrating for the first time that humans with no muscular channels can still communicate. This project won the Georgia Tech undergraduate research “people’s choice” award in spring 2003. Students: Umang Dua, Trecia White.


AudioMORPH – a prototype of a semi-automated tool for adapting graphical user interfaces to auditory using the COTS tool JAWS. Sponsor: NIDRR RERC.

Recent Teaching Activities

Dr. Melody Moore is one of our teaching “stars.” She is also a past winner of the Myron Greene Teaching Excellence Award. She consistently receives some of the highest ratings by students on their evaluation forms. This past year, Dr. Moore taught one section of CIS 2010, “An Introduction to Information Systems” and two sections of the newly-created, required course to the College’s MBA curriculum, MBA 8120 (Information Systems). As usual, her evaluations were above the average of her peers.

In addition, Melody has worked closely with an unusual number of students. The following gives the reader a small insight into how committed she is to working closely with our students. This listing includes students from Masters and PhD programs from not only the CIS Department, also from other departments within GSU, as well as some from our colleagues at Georgia Tech.

Directed readings and Independent research projects taught:

Rachel Fithian, MS student – Spring 2004 – research project: “Neural Navigation”

Trecia White, MS student – Spring, summer, fall 2004 – research project: “Galvanic Skin Response interface study”

Saurabh Verma, CS undergrad student – Spring 2004 – “A P300 speller for the BrainBrowser”

Fikre Tadesse, CS undergrad student – supervised Fikre (a volunteer) to design and implement the “neural navigation” application, a remote-controlled vehicle driven by brain signals.

Thesis, Dissertation and PhD student activities:

- Adriane Davis – second year PhD student, (supervisor) – began the BrainGauges study which will lead to her dissertation.
• Nannette Napier – GANN grant awardee, involved in our prediction for Augmented Communication project and proposal.
• Janki Vora, CS MS Thesis – “A P300 controller for a robotic Arm”, successfully defended March 2, 2004
• Umang Dua, CS MS Thesis – Spring, summer, fall 2004 “BCIkit: automated task generation for Brain-Computer Interfaces”
• Reginald Hobbs (Georgia Tech College of Computing) – (supervisor). Mr. Hobbs is a candidate and is now completing his dissertation on scenarios and storyboarding for requirements analysis. He successfully defended his research in July 2004, we expect him to complete his dissertation and graduate Spring 2005.
• Sweta Sneha – first year PhD student (supervisor) – joined the BrainLab in fall 2004, and has been working on completing a previous study on “Neural Internet”, demonstrating that a web browser can be controlled with brain signals alone.
• Jon Preston (GSU CS PhD) – second year student, thesis committee.

Graduate and undergraduate students funded and supervised:

GSU Graduate Students Funded and Supervised:

• Adriane Davis – PhD CIS (spring, summer, fall)
• Nannette Napier - PhD CIS (spring, funded by Johnson)
• Sweta Sneha – PhD CIS (fall, funded by CIS)
• Umang Dua – MS CS (spring, summer)
• Amit Yadav – MS CIS (spring, funded by Hubona)
• Mike Smith – MS CIS (spring, summer, fall)
• Chintan Shah – MS CIS (spring)
• David Yu – MS CIS (spring)
• Luke McCampbell – MS CIS (spring, summer, fall)
• Shelli Heil – MS CIS (summer, fall)
• Madhavi Baji – MS CIS (summer, fall)
• Fikre Tadesse - BA CS (spring, summer, fall – volunteer)
• Tizeta Tadesse – MS Bio/Neuroscience, (fall)
• Azizi Richardson – MS CIS (fall)
• Janki Vora – MS CS (spring)
• Gopi Vora – BA Bio (spring, summer, fall)
• Imam Muhammad – MS CS (fall)
• Katie Seba - (fall)
Arun Rai

Arun Rai is our Harkins Chaired Professor. His research approaches e-business innovation problems by investigating the complementarities between information systems, operations management, and strategy. He has published extensively in leading academic and practitioner journals in Computer Information Systems, including Accounting, Management and Information Technologies, Computers and Operations Research, Communications of the ACM, Information Systems Journal, Information Systems Research, Journal of Management Information Systems, MIS Quarterly, as well as many highly respected journals in Operations Research and Decision Science. He serves, or has served, on the editorial boards of important CIS journals like The Database for Advances in Information Systems, IEEE Transactions on Engineering Management, Information Resources Management Journal, Information Systems Research, MIS Quarterly, and Journal of the Association for Information Systems. He has been involved in teaching and developing RCB executive programs, such as the Global Supply Chain Solutions executive education program.

Recent Service Activities

External service roles focused on editorial responsibilities for conferences and journals. I served as the co-chair for the Electronic Enterprises track of the International Conference on Information Systems, which was held in Washington, D.C. I also assumed responsibility as Americas Editor for the Journal of Strategic Information Systems. I continued to serve as associate editor for Information Systems Research and Journal of the Association for Information Systems and also served as guest associate editor of a Knowledge Management special issue of MIS Quarterly. Finally, along with M. Krishnan (U. Michigan) and R. Zmud (U. Oklahoma), I co-developed a proposal for a special issue of Information Systems Research that is designed to promote interdisciplinary investigation of the Digitally-Enabled Extended enterprise phenomenon – this proposal has been approved.

Internal service responsibilities focused on the launch of the Center for Process Innovation (CEPRIN), development of its research partnerships with corporations, and coordination of its PhD program. I completed my three-year term on the RCB P&T committee in Summer 2004 and also served on the CIS department P&T committee in Fall 2004. Finally, I participated in discussions related to strategic repositioning and curricular changes of the CIS department.

Recent Research Activities

Journal Articles


**Conference Proceedings Papers**


Books and Monographs


Book Reviews and Other Non-Refereed Published Works


**External Grant Awards**

The research process within Gartner (co-investigators; Richard J. Welke, Lars Mathiassen). Funding for 110,000 awarded in 2004.

**Recent Teaching Activities**

Dr. Rai is a relatively new addition to the CIS Department faculty. Although he is well-known for his scholarship, students find Arun to be a valuable teaching resource. This past year, Dr. Rai taught two courses, one for the prestigious executive MBA program and the other as a Ph.D. seminar for the Electronic Commerce Institute. EMBA 8355, "Process and Operations Innovation," was very well received by the highly-critical executive MBA students. The doctoral seminar, ECM 9100, "Systems Agility and Innovation," was evaluated by his students with a perfect 5.0.

Dr. Rai also taught two directed readings courses, CIS 8389...one for a graduate student on "Digital Supply Chain Collaboration," and the other for a Ph.D. student entitle, "Information Sharing in Network Organizations." Outside of Georgia State University, Arun lectured on the "Value of Information Sharing" for the Sorbonne School in Paris, France. For our business community, he taught a one-day workshop on the "Value of Supply Chain Improvements in Manufacturing Firms" with Michael Jordon of Trade Dynamics. This workshop was attended by executives from several Atlanta-area manufacturing firms. Finally, Dr. Rai taught another workshop on "Global Supply Chain Solutions Workshop" for executives for United Parcel Service.

Even with his busy schedule, Arun devotes a number of hours to our doctoral students. He is currently committee chair or co-chair for four dissertation committees, while serving as a committee member on four others - quite an amazing feat considering his other, research and service-oriented accomplishments.
Balasubramaniam Ramesh

Balasubramaniam Ramesh is an Associate Professor for the Department of Computer Information Systems at Georgia State University. Dr. Ramesh’s research focuses on modeling and supporting knowledge management in complex organizational problem solving situations such as large-scale and internet systems development. He has investigated supporting collaborative work with artificial intelligence, decision support and multimedia technologies in the areas of requirements engineering and traceability in systems development, concurrent engineering, and new product development. His research work has been published in several leading conferences and journals including the IEEE Transactions on Software Engineering, IEEE Computer, IEEE Internet Computing, IEEE Intelligent Systems, Communications of the ACM, Annals of Software Engineering, Annals of Operations Research, Decision Support Systems. Dr. Ramesh developed GPR, one of the first data mining systems using Genetic Programming. His work has been applied in a variety of industries and are used in several leading Computer Aided Systems Engineering tools. Dr. Ramesh received GSU’s Outstanding Faculty Achievement Award for 2002 for ‘extraordinary achievements in teaching, research and service’ and the Myron Greene Outstanding Teaching Award for 2002. Dr. Ramesh’s has received attracted extensive support from several prestigious government and private research organizations such as the NSF, DARPA, AFRL, ARL, MCC, Accenture, Texas Instruments etc.

Recent Service Activities

My service to the professional community in the role of serving in three editorial boards of journals, and chairing a track in HICSS were significant commitments. I handled nearly twenty five submissions (including organizing reviews, and selection of papers). At the university level, my service at the senate has demanded considerable attention. I have been member of two important senate committees (Research and Budget) and have committed a lot of effort to actively participate in subcommittees on budget priorities and responsible conduct of research. At the college level, as a member of the research committee I evaluated nearly sixty proposals for summer course release grants. Also, I served in the college committee that evaluated and guided the development of Tech Fee proposals by all units of the college. At the department level, I actively participated in the graduate curriculum and designed a new track on systems development, including the development of material on three new courses for college approval. As an active member of the doctoral program committee, I participated in important activities such as the selection of new students and the evaluation of current policies. I coordinated all aspects of the Ph.D. comprehensive examinations, including remedial and special exams.

Recent Research Activities

Journal Articles


B. Ramesh and K. Mohan, “Traceability-based Knowledge Integration in Group Decision and Negotiation Activities”, *Decision Support Systems, 2004 (Accepted for publication)*.


**Conference Proceedings Papers**


Books and Monographs


Book Reviews and Other Non-Refereed Published Works


External Grant Awards


Synthetic Research Artifacts


Recent Teaching Activities

This past year, Dr. Bala Ramesh taught three sections of CIS 8130, “Object-oriented Specifications,” and one section each of CIS 8150, “IT Project Management ,” and CIS 8450, “Knowledge Systems, Development and Use.” Bala, substantially enhanced the CIS 8450 course in the Fall 2004 offering which had not been updated since the Fall of 2002. He incorporated several knowledge systems tools into a series of hands-on assignments to provide the students a comprehensive understanding of the latest developments in the field of artificial intelligence, including advanced techniques as genetic programming, fuzzy reasoning, genetic algorithms, neural networks and recursive partitioning systems.

In the CIS 8130 course, Dr. Ramesh worked on the implementation of several innovative ways of incorporating structured peer reviews throughout the course. Specific innovations that were well received by students include the “scenario walkthrough” approach and a series of class exercises involving the CRC (Classes, Responsibilities, Collaborations) technique.

He also attempted to simulate client interactions within class projects to provide a more realistic learning environment. Client interviews were conducted using collaboration support tools. Student developers collaborated with their clients using this tool and finalized project requirements, thereby simulating a real-life analyst-client interaction.
As always, Dr. Ramesh’s evaluations from students were exceptionally high. So much so, that he was honored by the Robinson College of Business as the 2004 recipient of the **Outstanding Faculty Achievement in Teaching** award.

Lastly, for the planned new Master of Science curriculum approved this past year, Dr. Ramesh actively participated in the design of the Systems Development and Project Management concentration. This revised Master’s curriculum was approved by RCB faculty in the Fall 2004 meeting. Bala designed the content of three of the four courses that comprise this concentration. This included the preparation of all the material, including course descriptions, objectives, detailed syllabi etc. required for evaluation and approval by the CIS and RCB faculty groups.
Arjan Raven

Arjan Raven is an assistant professor in the Computer Information Systems Department at Georgia State University, in the Robinson College of Business. He received his Ph.D. in Business Administration from the University of Southern California. He additionally holds degrees in computer science from the University of Amsterdam and electrical engineering from the Utrecht School of Engineering. In his research, Arjan has investigated the creation and sharing of knowledge in new product development groups. His current interests center around the management of knowledge, and collaboration within virtual groups and communities of people, with an emphasis on supporting technologies. He has published in the Journal of Organizational Computing and Electronic Commerce, the Data Base for Advances in Information Systems, and the International Journal of Entrepreneurship and Innovation Management. He is a co-principal investigator for a multi-year research grant from the National Science Foundation. Arjan has consulted nationally and internationally with large companies in the areas of business process redesign and knowledge management. He teaches courses at GSU on information technology Fundamentals for electronic commerce, information systems development, and knowledge management. He also conducts research on the development of on-line courses and the use of instructional technologies.

Recent Service Activities

My main service responsibilities centered around the CIS Graduate Program Committee and my work as the chair of the Scholarships and Awards Committee. I have worked extensively with Ph.D. students, both within the CIS department, and within the College of Education. I have advised assigned masters students for their programs of study, and other students for their career options. On several occasions I have assisted my colleagues with teaching and research related activities. I have participated in departmental meetings and discussions, and I have promoted the programs to prospective students.

Recent Research Activities

Journal Articles


Conference Proceedings Papers


Books and Monographs


Recent Teaching Activities

In 2004, Dr. Raven taught two sections of CIS 8110 (Information Technology Fundamentals), and two sections of the new MBA 8120 (Information Systems) course. He had previously taught CIS 8110, but, as always, he made continuous improvements to the course. The MBA 8120 course was a completely new and was developed as part of the revamping of the overall RCB MBA curriculum. As with all new courses, the one will improve with time. Even so, Arjan received fairly high evaluations for all his courses last
year…all fell in the 4.0 – 5.0 range for how effective the students thought the instructor was.

Since 1998, Arjan has taught the CIS 8110, the Information Technology Fundamentals course, several times. The course increasingly emphasizes electronic commerce technologies as an integral part of today’s organization. Given the ever changing nature of technology, and the diversity in backgrounds of the students, this course is challenging every time it is taught. For some, the course is too difficult, and for others, the course does not have enough technical detail. As a result, Dr. Raven’s approach has been to try to create a highly structured course, with numerous deliverables and optional exercises that ensure all the students attain the requisite skills set forth in the course objectives. For the Spring semester in 2004, Arjan updated several of the assignments and exercises, as well as the lecture notes.

MBA 8120 is the new information systems core course in the MBA program. Each semester it is taught in the first mini-semester. Most of the material for the class was prepared by Veda Storey, who did a great job of putting together slides and selecting cases and readings. As the principle instructors, Melody Moore, Jeff Hubona, and I worked together closely to make final improvements to the material. Most students enjoyed the class according to the many positive feedback comments received.
**Daniel Robey**

Daniel Robey is Professor and John B. Zellars Chair of Information Systems at Georgia State University, holding a joint appointment in the Departments of Computer Information Systems and Management. He teaches courses on Qualitative Research Methods in Information Systems and Information Technology and Organizational Transformation. He earned his doctorate in Administrative Science in 1973 from Kent State University. Professor Robey is the author of three books and numerous articles in such journals as *Management Science, Organization Science, Information Systems Research, MIS Quarterly, Human Relations, Journal of Management Information Systems, ACM Transactions on Information Systems, Information Systems Journal, Academy of Management Review, Academy of Management Journal, Information Technology & People, and Decision Sciences*. His current research includes empirical examinations of the effects of a wide range of technologies on organizational structure and patterns of work, including the development of theoretical approaches to explaining the development and consequences of information technology in organizations.

**Recent Service Activities**

As Coordinator of the CIS Doctoral Program, my leadership affects all aspects of the CIS doctoral program and contributes to the program’s success. I engage the CIS Ph.D. Committee is strategic planning, I answer all inquiries, conduct personal and telephone interviews with applicants, oversee the selection and admission process, orient incoming students, monitor programs of study, teach in the program, oversee administration of the comprehensive exams, and consult with other doctoral coordinators on the RCB Doctoral Committee.

As Editor-in-Chief of *Information and Organization*, I am responsible for all editorial functions, including selection of the editorial board, relationships with the publisher (Elsevier) and oversee an annual operations budget. I screen all incoming manuscripts, select reviewers, evaluate reviews, guide revisions, and make final publication decisions on over 60 submissions.

As program chair for AMCIS 2005, I provide major service to the entire field by establishing the broad outline of the academic conference and by overseeing the integrity of the review process for competitive paper submissions.

I am also a member of the editorial boards of *Academy of Management Review, Organization Science, Information Technology & People*, and *Information Technology and Management*.

**Recent Research Activities**

**Journal Articles**


**Conference Proceedings Papers**


**Books and Monographs**


**Book Reviews and Other Non-Refereed Published Works**


**Recent Teaching Activities**

Dr. Robey, one of the eminent scholars in the CIS Department, has taught CIS 8160, “Business Process Innovation and Organizational Change Management,” and MGT 9400, a doctoral seminar for the Management Department.

Dan is also the coordinator of the CIS doctoral program, and, as such, continually reviews and modifies policies and curricula relevant to the doctoral program. During this past year he has been seeking ways, within the boundaries of existing program requirements, for Ph.D. students to acquire a greater specialization in their chosen research areas. As Doctoral Program Coordinator, he advises all of the doctoral students in CIS on their programs of study. Dan also evaluates the written and oral candidacy exams qualified Ph.D. students.

In 2004, he chaired three dissertation committees, while co-chairing a fourth. Additionally, he is a member on one other dissertation committee. What many people are not aware is that as coordinator of the CIS doctoral program, Dan and the other doctoral coordinators review and modify policies and curricula relevant to the doctoral program of the Robinson College of Business. One of his goals is to
seek ways within the existing program requirements for students to acquire greater specialization within their chosen areas of research.

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**William Robinson** is an Associate Professor Director for the Department of Computer Information Systems at Georgia State University. He has written over 40 academic articles, mostly in the areas of Requirements Engineering and agent support of Electronic Commerce. He is secretary of IFIP Working Group 2.9 (Software Requirements Engineering). He was the program chair for the Fourth IEEE Requirements Engineering Symposium (RE’99). Dr. Robinson received his Ph.D. in computer science from the University of Oregon in 1993. Prior to his arrival at Georgia State University, Dr. Robinson taught Computer Networking and Software Engineering at Oregon State University's computer science department (Corvallis, Oregon) and prior to that at the University of Oregon's computer science department (Eugene, Oregon). Prior to his academic career, he worked at Battelle Pacific Northwest National Laboratory.

### Recent Service Activities

On Leave – Non Submitted

### Recent Research Activities

On leave – Non Submitted
James Senn

James A. Senn is Professor of Information Systems in the College of Business Administration at Georgia State University in Atlanta. He specializes in corporate and competitive strategy, information technology, and emerging technologies. Senn works closely with business and government to conduct scholarly and applied research in each of these areas. He is a prolific writer, with many publications, books, and practitioner columns included in his credentials. He served for six years as Chairman of the Department of Computer Information Systems at Georgia State University. Under his direction, the department gained an overall national ranking as the number two program (second to the Massachusetts Institute of Technology) in the United States, and was identified as having the top curriculum in the nation.

Senn was the founding Associate Editor for practice of the MIS Quarterly, and a founder of the International Conference on Information Systems, the Association for Information Management, the Society for Information Systems, Atlanta Chapter, and the Information Managers, Atlanta. His client list includes many well-known “blue chip” firms from Europe, Asia, and the Americas. He has been appointed to the Board of Directors of numerous public and private organizations.

Recent Service Activities

Jim Senn was asked by the University and Robinson College to focus on service during the past year, a request that is a direct result of his administrative experience, his long tenure at Georgia State University, and his broad network of executive-level contacts locally, nationally, and internationally.

He served as co-chair of the Robinson Dean Search Committee. The national search identified a large pool of experienced candidates, many of whom were sitting deans and senior associate deans. The search resulted in the naming of a new dean even before the prior dean’s term was completed.

Senn also created and manages the Executive Leadership Theme of the Executive MBA Program. The theme features workshops on corporate leadership and a recurring series of luncheons and leadership evenings that bring senior corporate executives from throughout North America to the program. Representative of the participants during 2004 are: Steve Marriott (Marriott International), A. D. “Pete” Correll (CEO, Georgia-Pacific), Ed Quibell (CFO, Manhattan Associates) and Arthur Blank (Founder, The Home Depot).

Within Georgia State University, Senn served on the University Senate. He is a member of the Senate’s Information Systems and Technology Committee and the University Student Technology Fee Committee. He was a member of the University Task Force on Composition of the Faculty. Senn also competed his fifth consecutive year of serving on the University Research Program Committee. In addition, he serves on Robinson College’s Faculty Affairs Committee.

Senn is also the Faculty Liaison to the EMBA Alumni Association.

Recent Research Activities

Conference Proceedings Papers

Books and Monographs


Senn, James A., “Strategic Architecture for Enterprise Wireless Mobility Initiatives”
*Competing in the Information Age: Align in the Sand*, pp 337-349. (Jerry Luftman, ed)

Recent Teaching Activities

Consistently one of our best instructors, Dr. Senn is a past recipient of the Myron Greene Award for Excellence in Teaching. Jim’s strengths in the classroom are based, in part, upon his strong background in research, consulting, and executive education. This past year, Dr. Senn taught sections of CIS 8610, “Aligning Business and Information Technology,” MBA 8473, “An Introduction to Information Systems (for the MBA program),” and an Executive MBA course, EMBA 8605, “Information Systems Structure and Strategies (for the Executive MBA program).” Additionally, Jim taught “Global Corporate Strategy,” in the Executive MBA Program at the Helsinki School of Economics, Helsinki, Finland.

In curriculum development, Dr. Senn, along with other Robinson College of Business colleagues, designed a new foundation/core course for the revised MBA program, MBA 8000, “Managing in the Global Economy.” Part of his activities included the selection and sequencing of course topics, readings, and business cases as well as the lecture material for this course. These included teaching notes, student discussion questions and PowerPoint slides. Jim met with all faculty teaching the course in two ninety-minute working sessions to discuss lecture topics and pedagogy for the course sessions.

Similarly, for the other MBA and Executive MBA efforts within the College, Jim has been instrumental. In 2004, he designed a new course entitled, “Executive Leadership in the Global Enterprise.” A complete course prospectus was reviewed and approved by the Graduate Program Committee for offering as experimental course in 2005. This course will initially be offered in Spring 2005 term.

Dr. Senn has also created two multimedia programs on Strategic Corporate Leadership for the Executive MBA program:

1) Leadership Practices of Authentic Leaders (consists of cases, video, exercises, and lecture);
and

2) The General Electric Leadership Practices: Twenty Years of Magic or Myth

Similarly, and again using multimedia technology, Dr. Senn created and offered a corporate leadership workshop for Executive MBA program, 2nd year retreat at Stone Mountain/Evergreen Conference Center.
John Sergo

John R. Sergo, Jr. is an Assistant Professor in the Department of Computer Information Systems at Georgia State University. He teaches graduate and undergraduate courses in telecommunications and network management. His past research has been in Intelligent Network Systems, Network Management, and high-speed ATM networks using fiber optic technology. He has also done research and development in digital switching technologies and optical access technologies. He has taught communications courses at Purdue University, Georgia Tech, UCLA and the University of Maryland. He has 29 years of industry experience with major telecommunications manufacturers and service providers. He also served on the President’s National Security Telecommunications Advisory Council (1982-85). He holds 3 patents in digital encoding methods. Sergo graduated with a B.S.E.E. from Purdue University, an M.S.E.E. from the Georgia Institute of Technology, and a Ph.D. E.E. form Purdue University.

Recent Service Activities

I serve as a mentor for Therese Viscelli. Overall I met with her 4-5 times during 2004. Total time spent was approximately 6 hours. We discussed teaching effectiveness, student situations, exams, exam structure, and exam effectiveness. We as discussed, at her request work, load and publication requirements.

I continue to serve as the Departmental Coordinator for Awards with participation in both the nominations for the Sparks Award and the GSU Faculty Awards. I both nominated and encouraged Dr. Roy Johnson to apply for the innovation in teaching award.
I served as coordinator for the Student Life Cycle Program which includes coordination of the Internship Program and the Capstone Course. However, the internship program coordination was assigned to Jim Brown at mid-year. (Participation in this program is described on a subsequent page.)

I served as a teaching mentor for PhD Student Chong-Woo Park. This turned out to be more of a load that I thought, taking several hours per week to educate him on the telcom area as well what is expected, by example, in teaching. There is a letter on file from Chong-Woo Park commending me for mentoring and imparting teaching skills. The letter is quite complimentary regarding what I was able to “teach” him. Earlier, I forwarded the letter to both Dr. Robey and Dr. Baskerville.
I participated heavily in the re-vitalization of the CIS Executive Roundtable by personally contacting 5 companies not only by letter and by phone, but also in person.
I re-established the CIS Alumni Club. This required an intense personal effort, along with significant personal expenses, sometimes requiring evening meeting 2-3 times per week and sometimes on the weekend. (Participation and results for this program is described on a subsequent page.)

I participated as a member of the Undergraduate Program Committee during 2004 with 6 meetings. Our efforts were directed toward a total revision of the current curriculum along with course content revision requirements. I was appointed a faculty advisor for Masters Students.
I participated in the GSU Majors Conference on February 12, 2004 to encourage students to select CIS as there major. Over 75 booklets were passed on to interested students.
I am a PhD committee member for PhD student Punit Amluwalia. Dr. Varshney is committee chair.

Participated in the Spring Graduation ceremonies as a Faculty Guide for the Robinson College of Business. Participated in the Fall 2004 Graduation ceremonies as a Faculty representative for the Robinson College of Business.

Internally, this involved a continuing restructure of the website, the process of applying for an internship, the online forms, and notification to students both on the
website as well as in classes. This effort required meetings with Katie Yang, Rod Padilla, Mohammed Issah and Dave McDonald. Externally, I met with personnel from Genuine Parts, Georgia Pacific, Verizon Wireless, and UPS, either in person or by phone to discuss the program and determine their willingness to participate. Responsibility for this effort was transferred to Jim Brown approximately mid-year.

In order to re-vitalize the CIS Alumni Club, we had to start rebuilding the organization from the ground up. This required new officers, re-establishing relationships with the GSU Alumni Association and re-building and updating the CIS Alumni database on all fronts.

The effort began by finding, recruiting and installing an entirely new team of officers (Catherine Rohlfing, President; Anil Kapur, Vice President – Programs and Membership; Nick Chapman, Vice-President -Technology; Steve Reynolds, Vice-President-Secretary; Jennifer Anderson, GSU Alumni Association; Dave McDonald, Ex-officio; and John Sergo, Faculty Liaison and Vice-President – Communications. We began meeting evenings, initially twice weekly and now weekly, either in person or by telephone (approximately 150 hours went to this effort) with the result that two events have been planned and scheduled for late February to early March. One event planned to re-introduce the CIS Alumni Club and a second paying event as part of a regular bi-monthly, ongoing, program.

Another part of this effort focused on updating the CIS Alumni database, streamlining the application process, and linking the process the GSU Alumni Association for the purpose of mailings, notifications, invitations, etc. This effort required approximately 75 hours to complete. In short, the effort is well underway and will be a success in all respects.

SIM: I officially joined SIM (in 2002) and participated in 2 SIM meetings in 2004.


CIS Executive Roundtable Meetings: 3

International Engineering Consortium:
Executive Council; Board of Overseers
I.E.E.E. Member; T.I.A. Member; Digital Television Subcommittee ; HDTV Subcommittee
U.S.T.A. Member; Fiber Optics Working Group

Recent Research Activities

Journal Articles


Recent Teaching Activities

Dr. Sergo is one of our Department’s specialists in telecommunication. John has a successfully leveraged his strong, business background when joining our faculty a few years ago. This past year, he has taught sections of CIS 3320, “Telecommunications for Business,” and CIS 8170, “Network Design and Management.” The CIS 3320 was again revised and updated in 2004. While the Syllabus and course description remains consistent with the University Catalog, the content and emphasis was modernized to correspond to telecommunications today. It was also stylized to make it more
attractive and interesting to the students. Similarly, CIS 8170 was also updated in 2004 to better provide an emphasis on wireless networking, network security and network location management.

To maintain his philosophy on continuous innovation/improvement, Dr. Sergo introduced course topic research and presentations activities into both his undergraduate and graduate courses. Students are now asked to research a relevant course topic and then present their findings in class. The motivation for these changes was in response to feedback from the CIS Roundtable members who indicated that our curriculum should enhance interpersonal skills and presentation skills. Although this was done on an extra credit basis the past year, John plans to make it a permanent addition to his courses.
Veda Storey

Veda C. Storey is Tull Professor of computer information systems, J. Mack Robinson College of Business Administration, Georgia State University. She has Research interests in database management systems intelligent systems, data quality, and knowledge management. Her research has been published in ACM Transactions on Database Systems, IEEE Transactions on Knowledge and Data Engineering, Information Systems Research, Management Information Systems Quarterly, Data and Knowledge Engineering, Decision Support Systems, the Very Large Data Base Journal, and Information & Management. She serves on various editorial boards, including Management Science, Information Systems Research, Management Information Systems Quarterly, Data and Knowledge Engineering and Data Base. She was the program co-chair of ER 2000 and of the International Conference on Information Systems, 2001. She was Secretary-Treasurer and Vice President of Information Systems, of Meliora Systems, Rochester, N.Y. from 1988-1998.

Recent Service Activities
At the community level, I am a senior editor of MIS Quarterly. I was also an associate editor of a number of journals, including Information Systems Research, Decision Support Systems, Data and Knowledge Engineering. I am on the steering committee of WITS and ER. I am one of the founding associate editors of the Journal of Applied Ontologies and am on the advisory board of the Special Interest Group on ontologies.

At the college level, I served on the MBA Steering Committee and was responsible for coordinating the two new MBA CIS modules and for developing MBA 8120. At the departmental level, I serve as the research director and am a member of various standing and ad hoc committees including the Ph.D. committee, and the P&T committee.

Recent Research Activities

Journal Articles


**Conference Proceedings Papers**


Recent Teaching Activities

Dr. Storey has a very eclectic background in teaching. Although fully qualified in the area of database management systems, Veda elected to teach MBA 8473, “Information Technology and Decision Strategy” for the College, EMBA 8600, “Information Technology Infrastructure and Deployment” for the Executive MBA program, and CIS 9320, “Design Research Methodologies” for our doctoral students. Additionally, Veda volunteered to represent and coordinate the CIS department in the newly revised MBA courses. This included forming and chairing two ad hoc committees to develop two new proposed MBA courses, MBA 8120 and MBA 8220.

Finally, Veda served as the chair on the dissertation committee for one of our Ph.D. students, Cecil Chua. Cecil not only successfully defended his dissertation, but he was also the runner-up for the Best 2004 ICIS Dissertation Award. Cecil and Veda should be very proud indeed.
Detmar Straub

Detmar Straub is the J. Mack Robinson Distinguished Professor of Information Systems at Georgia State University. Dr. Straub has published research in the areas of electronic commerce, computer security, technological innovation, and international IT studies. He holds a D.B.A. in MIS from Indiana University and a Ph.D. in English from Penn State University. He has published over 70 refereed papers in journals such as Management Science, Information Systems Research, MIS Quarterly, Communications of the ACM, Journal of MIS, Sloan Management Review, Academy of Management Executive, Computers & Security, and Information & Management.

Dr. Straub’s academic department at Georgia State has just been designated as the one of the top four departments in the world from 1985-1999, following MIT, UT-Austin, and Minnesota. Former co-Editor of the oldest IS journal, DATABASE for Advances in Information Systems and former Associate Editor for the MIS Quarterly, he is currently an AE for Information Systems Research and Management Science. He teaches courses at Georgia State in e-Commerce Strategy, IT Strategies for Management, Systems Integration and IT Outsourcing, International IT, and Computer Security Management. Dr. Straub has lectured and led international seminars on e-Commerce strategies and best practices in Atlanta, Melbourne, Singapore, Rotterdam, and Cairo.

Recent Service Activities

University
IRB Committee member representing the interests of the RCB.

RCB
Member of College’s P&T. We reviewed 4 cases and passed our recommendations onto the Deans. Member of RCB MBA Steering Committee. Am chairing the search for the Pennebaker Chair in Marketing.

CIS
Member of RCB MBA Steering Committee, which met for three hours each week in the spring of 2004. I worked with this group to ensure that there were viable CIS modules in the core curriculum. The result was two modules that allowed the department to excite students about the field of information systems and system dynamics. Active mentor. Chaired BOA Chair search.

External
VP of Publications for the Association of Information Systems (AIS), our professional society, and SE for the Journal of the AIS and DATABASE; also AE for Management Science and special AE for MISQ. I serve on AIS Council and the MISQ Policy Council. Through these various roles, I was involved in appointing two Editors-in-Chief of our major journals in 2004. Impact of all these activities goes without saying.

Recent Research Activities
Journal Articles


Conference Proceedings Papers


Books and Monographs


Book Reviews and Other Non-Refereed Published Works


External Grant Awards

National Science Foundation Grant, 2004 $30,000 (2003-2004) “Forum to Advance Theory on National IT Policy” Co-Principal investigator on grant along with Galen Sevcik (PI) and Karen Loch.

Recent Teaching Activities

Dr. Straub always gives 100% toward any endeavor he takes on. In 2004, he demonstrated his strong leadership role and was a major player in the RCB MBA Steering Committee (along with Veda Storey and Jim Senn) which helped redesign the entire MBA curriculum and 3 courses, specifically, in which CIS plays a major role. Prior to this committee, Det was the initiator of ad hoc committee of consisting of CIS faculty, Marketing and CPI faculty to rework the MBA curriculum core courses. The results of this work follows:

MBA 8000. Managing in the Global Economy. (First time offered, Fall, 2004)

This cornerstone core course is aimed at providing an introduction to fundamental business concepts from a global managerial perspective. Students will gain fundamental insights into key business activities during different stages of a firm’s lifecycle.

MBA 8120. Introduction to Information Systems. (First time offered, Fall, 2004)

This case-based course module serves as an introduction to the relationship between information systems and business processes in the modern organization, particularly in an international setting. Directed at general managers, the module provides an overview of the cycle of business investment in information systems.

MBA 8220. Information Systems Technology for Business Process Innovation (First time offered, Fall, 2004)

To aid the student in looking at organizations from a business process perspective we introduce a specific process type of current interest – a multi-tiered supply chain. We then “attack” this complex entity with a modeling technique that identifies problems, metrics, and best practices.

Last year, Dr. Straub again led all CIS Department faculty by serving on ten doctoral students’ dissertation committees. He chaired two of these ten committees. In 2004, three of these doctoral students successfully defended their dissertations, while another five successfully defended their dissertation proposals.
Carl Stucke is a member of the faculty in the Department of Computer Information Systems at Georgia State University. His interests focus on electronic commerce, security, and advanced technology-based business solutions. Prior to his current position at GSU, Stucke was Chief Scientist (VP R&D) for Equifax Internet Solutions where he was responsible for leading edge investigation and identification of the Internet products and services offered by Equifax. Previously, he served as Vice President, Electronic Commerce Technology, as AVP, Consumer and Electronic Commerce Services, as AVP, Emerging Technologies, and AVP, Research & Development. Earlier, Carl held management and senior technology positions in Research and Development. Within these positions, he became involved in PKI, initiated development of a patented remote consumer identity verification, and lead Equifax's technology R&D in fielding consumer products, establishing Equifax's Internet presence, and applying machine learning, expert systems, and supercomputing technologies to Equifax's processes. Before this work in industry, Carl taught mathematics and computer science and setup academic computing centers within the University System of Georgia while reaching the rank of Associate Professor with tenure. Stucke holds a Ph.D. degree in mathematics from Emory University.

Recent Service Activities

Connections to the business community are a primary conduit for vision and knowledge to refresh and align each. I helped connect and prime this path by bringing members and potential members to the Roundtable and by participating in GECA.

Building the next generation of information technologists and enhancing the technology underpinnings of their future business colleagues is a fundamental faculty function. I grew my abilities in my courses and I defined and received approval for an experimental graduate course in network security. I added greater reality to my security courses by constructing a security lab funded by grants from Cisco, student technology fee funds, and SnapGear (now CyberGuard). And, I recruited new undergraduate CIS students and cross-registered students from Georgia Tech and Emory for the existing Security and Privacy course and the new Network Security course. Our academic colleagues within other institutions strengthen our pursuits through their diverse knowledge and additional energies. I fostered establishing these connections externally with GTISC and internally with sibling GSU organizations.

Our research brings new vision as innovative insights into existing organizations and technologies and as creative formation of new organization, methods, and technologies. Identifying my research interests and strengths and initial ventures were and are supported by existing and new colleagues in my first 21st century publications and research endeavors.

A busy, productive but incomplete year left challenges to enjoy in 2005 and beyond. Thanks!

Recent Research Activities

Journal Articles


Conference Proceedings Papers

Dr. Stucke continues to be one of our most productive faculty. Before joining us, Carl was an IS practitioner with the Equifax Corporation. In the time he has been with the CIS Department, he has demonstrated a remarkable willingness to share his experiences and contact. This past year, Carl taught CIS 3300, “Systems Analysis,” and CIS 8680, “Security and Privacy of Information and Information Systems,” as well as an undergraduate topics course on Security and Privacy of Information Systems.

The following is just a small indication of how involved Carl has become in CIS Department activities. In 2004 Dr. Stucke

Continued advisement of MS CIS students. 

Coordinated and attended 2 Panther Preview Days and one Major Fair. 
Was a member of Undergraduate Program Committee
Attended the capstone course (CIS 4980) student presentations (three sessions) 
Began substantial use of vClass in online instruction.
Increased the hands-on time use of Rational Rose in my CIS3300.
Serving as assessment coordinator for CIS (undergraduate and graduate). Substantial rewrite of masters’ assessment plan.
Substantial work on proposal to McKinsey for “History of IT” training for new consultants (awarded to Stanford). Still have some good presentations.
Spoke on a panel TRENDS AND CHALLENGES IN GEOSPATIAL INFORMATION SOLUTIONS FOR RISK MANAGEMENT at the Otega Forum.
Crabgrass Books case materials (developed and enhanced by his 3300 students and himself) will be the core of the CIS Common Case for use by CIS undergraduate courses.

In the area of Course/Curriculum Design and Development, Carl

Defined and received approval for an experimental graduate offering of a Security of Networked Information Systems course. Reviewed similar offerings, visited labs, consulted with peers, selected materials, and is now teaching the first offering of CIS 8082.

He assembled electronic materials and taught first offering of this course as CIS 4850. Additionally, he selected labs to increase realism for students (password cracking, firewall lab). 
Began substantial use of vClass in online instruction.
Continued integration of WebCT into his CIS3300 Systems Analysis
Increased hands-on-experience in CIS 3300 with Rational Rose (to almost daily) and more in-class cases for exercises, so students will be better prepared for CIS 3310.
Increased the use of groups to provide mutual support and to heighten the team building experience

Integrated use of vClass into his CIS 8680 to provide audio support (starting in Spring 2004). Dr. Stucke expanded vClass use in Fall 2004 to replace WebCT chat for interactive online component of course. He experimented with dual mode offering of course with workstation engaged for students who wished to take online course but be in the physical presence of the instructor and some class colleagues.
Added selected labs to CIS 8680 and CIS 4680 to better increase the realism for students (password cracking, firewall lab). Dr. Stucke also developed a Student Technology Activity fee proposal to provide additional support. This proposal was selected for a grant. The lab was defined, designed, equipment and software acquired, protected network connections configured, equipment installed, and final stages of OS and software installation underway.

Proposed and received equipment grant from CISCO for two firewalls and a router for security lab ($21K).
Duane Truex is an Associate Professor in the Department of Computer Information Systems at Georgia State University. Truex, is interested in the social impacts of ISD especially the impact on workers and how emergent properties of organizations may be reflected in emergent ISD. Truex is active in the IFIP 8.2 community, on the editorial board of the Information systems Journal and has-edited a special issue The Database for Advances in Information Systems on a critical view of ERP systems. He is an Associate Professor of CIS at Georgia State University, a Leverhulme Research Fellow in the United Kingdom at the University of Salford, England and a visiting Full Research Professor at Aalborg University, Denmark. His work has been published in the Communications of the ACM, Accounting Management and Information Technologies, the European Journal of Information Systems (EJIS), the Information Systems Journal (ISJ), the Journal of Arts Management and Law, IEEE Transactions on Engineering Management, and thirty assorted IFIP transactions and edited books and conference proceedings.

Recent Service Activities

Dr Truex was Co-program Chair of the International federation of Information Processing (IFIP) conference, on Information systems research entitled, "Relevant Theory and Informed Practice" July 2004 in Manchester England. The fourth IFIP WG 8.2 Research Methods conference held since the seminal 1984 IS research methods workshop, Manchester 2004 yielded the highest number of manuscripts in working group history. The proceedings book published by Kluwer Academic Publishers is used by IS PhD programs worldwide.

Truex was a leadership member of the International Conference of Information Systems (ICIS) Paris organizing committee that was awarded the 2008 ICIS. ICIS is the premier information systems research conference. As the Vice-Chairman of the doctoral consortium this will require a multi-year commitment to the ICIS community.

Truex is an Associate Editor of the Information Systems Journal and serves on the editorial boards of The Scandinavian Journal of Information Systems (SJIS) and the Journal of Language Action created by renown Language Action Theorists and IS researchers, Peter Bøgh Andersen and Göran Goldkuhl.

In 2004 Truex reviewed more than 40 manuscripts for conferences and academic journals and served on six conference program committees in 2004. Truex was also a Co-PI on three NSF proposals totaling $1.44 Million.

Recent Research Activities

Journal Articles


Conference Proceedings Papers


Books and Monographs

Kaplan, Bonnie, Duane P. Truex, David Wastell, A. Trevor Wood-Harper, and Janice L deGross, eds. Information Systems Research: Relevant Theory and


Vijay Vaishnavi

Vijay Vaishnavi is Professor of Computer Information Systems at Georgia State University and Fellow of the IEEE. His research interests include inter-organizational semantic interoperability, object-oriented and component-based software modeling and metrics, and software development process and its maturity. His research has been funded by research agencies such as National Science Foundation as well as by the industry. He has been a consultant to various companies and organizations including IBM, AT&T, and Bell Northern Research in the area of object-oriented modeling and management. He is a co-founder of Comsoft: Consortium for the Management of Emerging Software Technologies. He has published extensively in journals such as *IEEE Transactions on Software Engineering*, *IEEE Transactions on Knowledge and Data Engineering*, *SIAM Journal on Computing*, *Journal of Algorithms*, *Journal of Computer and System Sciences*, *Decision Support Systems*, and *Communications of the ACM*. He is the author of three books including the book, *Object Technology Centers of Excellence* (Manning Publications/Prentice-Hall). Dr. Vaishnavi received a BE with Distinction in Electrical Engineering from J&K University (India), an M.Tech in Electrical Engineering from IIT Kanpur, and a PhD from IIT Kanpur. He was a postdoctoral fellow at McMaster University (Canada).

Recent Service Activities

My most important service accomplishment in this year is the propagation of design research and the methods for conducting this type of research in all professional disciplines with particular focus on information systems and technologies. I accomplished this through the invited development and publication of the “Design Research in Information Systems” page at the heavily visited ISWorld site (under Research Resources), which has received positive and encouraging comments internationally. I further complemented this work by focusing on design research while visiting India on a Fulbright fellowship. I taught a graduate course on “Design Research Methods in Information Technologies and Systems,” and gave several talks on this topic including the second lecture in the Fulbright Lecture Series – *Vidavita* (meaning scholarship) given at the India Habitat Centre, New Delhi.

My interest in promoting design research was also the undercurrent of my service to other constituencies such as my active work as Treasurer and Board Member of Workshop on Information Technologies and Systems (WITS) and Program Committee member of several conferences including WITS, my work as the Coordinator of the Information Technology Track of the CIS doctoral program, and in advising the restructuring and refocusing of the CIS masters program.

Recent Research Activities

*Journal Articles*

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**Recent Teaching Activities**

Dr. Vaishnavi had a very productive year working with both our graduate and Ph.D. students. He taught sections of CIS 8270, “Data Structures for software applications,” and CIS 3260, “Introduction to Programming Using C/C++.” Vijay led all faculty in spearheading our new MS thesis option for graduate students. Somehow, he has found time to mentor five hopeful candidates for the thesis option. Additionally, has mentored three of our newer Ph.D. students, assisting them in their first efforts at publishing academic papers.

Dr. Vaishnavi is also one of the department's leaders, helping us to define and develop a strategic plan for the curricula of both our graduate and undergraduate degree programs.
Upkar Varshney is an associate professor of CIS at Georgia State University, Atlanta. He received a B.E. in electrical engineering in 1988 from the University of Roorkee, now Indian Institute of Technology-Roorkee (IIT-R). Then he did his graduate work in electrical engineering at IIT-Bombay before receiving an M.S. in computer science in 1992 and a Ph.D. in telecommunications and computer networking in 1995, both from University of Missouri-Kansas City. He has authored more than 60 papers on wireless networks, mobile commerce, wireless multicast, wireless ATM and other topics in major journals and international conferences. Several of his papers are among the most widely cited publications in mobile commerce. He has presented some very well received tutorials and workshops at major international conferences including ACM Mobicom, IEEE WCNC, IFIP HPN, and HICSS. He has delivered over 50 invited speeches, including several keynotes at conferences and workshops. Since joining GSU in 1998, he has consistently received exceptional teaching evaluations including several perfect scores for undergraduate and graduate courses. In October 2000, Upkar was awarded Myron T. Greene Outstanding Teaching Award and in November 2002, he received the highest teaching award for RCB.

Recent Service Activities

During 2004, He was very actively involved in professional service that included positions of Guest Editor, ACM/Kluwer Journal on Mobile Networks and Applications (MONET), Member of Editorial Board and Editor for Communications, IEEE Computer, 2000-2004, Divisional Editor for Communications of AIS (CAIS), and Member of Editorial Board, International Journal on Mobile Communications and International Journal of Network Management. He was also very actively involved in major conferences (PC, chair, and workshops). In addition, due to his leadership role in mobile and wireless systems, he reviewed about 50 articles for journals and conferences.

Within CIS, he was the chair/member for several dissertations, an active member of P&T committee, the chair of SIG-MWIS, the faculty liaison to GSU library, the course coordinator/developer for multiple courses, and a member of a few smaller committees.

Within RCB, he was a member for Faculty Development Committee and also spent time in managing FDC’s web site.

Recent Research Activities

Journal Articles


Varshney, U., "Location Management for Mobile Commerce Applications in Wireless Internet", *ACM Transactions on Internet Technologies*, vol. 3, no. 3, August 2003 (pp. 236-255) (5th most downloaded paper from the entire ACM Digital library and the most downloaded paper from any ACM Transactions in 2004).


Andersen, K., A. Fogelgren-Pedersen and U. Varshney, "Mobile Organizing using Information Technologies in Government", *Information, Communications and Society*, vol. 6, no. 2, August 2003 (pp. 211-228)


Varshney, U., "Multicast over Wireless Networks", *Communications of the Association for Computing Machinery (ACM)*, vol. 45, no. 12, Dec. 2002 (pp. 31-37)


Varshney, U., A. Snow, M. McGivern, and C. Howard, "VoIP: Technology and Adoption Issues", *Communications of the Association for Computing Machinery (ACM)*, vol. 45, no. 1, January 2002 (pp. 89-96)

**Conference Proceedings Papers**


Books and Monographs

Andersen, Kim and Upkar Varshney, "MOBIT", Networked Business, Prentice Hall, 2004

Book Reviews and Other Non-Referred Published Works


Varshney, U., “Pervasive Healthcare”, IEEE Computer, December 2003 (pp. 138-140)

Varshney, U., “The Status and Future of 802.11-based WLANs”, IEEE Computer, June 2003 (pp.90-93)

Varshney, U., “Mobile Payments”, IEEE Computer, December 2002 (pp. 120-121)

Varshney, U., “Multicast Support for M-commerce Applications”, IEEE Computer, February 2002 (pp.115-117)

Recent Teaching Activities

Continuously one of the best teachers in our Department, Dr. Varshney is the first two-time recipient of the Myron Greene Excellence in Teaching Award and last year’s Robinson College of Business award for Distinguished Contributions in Teaching. In
2004, Upkar taught CIS 8390 a topics course on “Wireless and Mobile Computing” as well as his usual CIS 8170, “Network Design and Management.”

Dr. Varshney also believes in continuous course improvement. He substantially modified the contents of CIS8170 in the Fall 2004. This included the addition of 65 pages of new class note materials for his students. Upkar undertook this considerable effort to maintain currency in a course based on highly technical, quickly innovating state-of-the-art technologies. The additional materials contain course notes, slides, and journal papers. Upkar believes these extra efforts are necessary to keep his students abreast in a constantly changing field.

Dr. Varshney also served on two doctoral dissertation committees, chairing one of them.
Therese Viscelli is an Instructor in the Department of Computer Information Systems at Georgia State University. She is the coordinator for the CIS2010, Introduction to Computer Information Systems. She holds a BS from Georgia Institute of Technology and an MBA from Georgia State University’s Executive program. She has 20+ years of practical IT experiences. These include Director of Software Development for a major software company, large scale ERP project management with several companies and Director of Information Technology for a large sporting goods manufacturer. She has managed international projects for The Coca Cola Company and Formica LTD, UK. She has experience in all phases of the software life cycle and has been responsible for defining and implementing analysis and design procedures at several companies. She is recognized by Who’s Who of American Women, Who’s Who in the World and Who’s Who in America.

Recent Service Activities
My service to the department was narrowly focused in the roll of CIS2010 Coordinator. I coordinated 28 sections of the course. I provided the textbook selection, course syllabus, assignments, tests, grading rubrics and the final exam. A WebCT environment was prepared for each instructor to allow delivery of the course materials. I reviewed 51 sets of transcripts for transfer course credit.

My service to the community was accomplished by working with BellSouth Advertising and Publishing and ST. Pius X Catholic High School. At BellSouth, I worked with the Marketing department to refine their data analysis needs. AT St. Pius X, I worked with the Bookstore and the Accounting departments to improve dataflow for accounting purposes.

Recent Teaching Activities
Therese Viscelli has one of the most difficult jobs in the CIS Department. As coordinator for the CIS 2010 course, “An Introduction to Information Technology,” she is not only required to teach multiple sections of a course that typically gets poor student evaluations, but she is also responsible for the design, content, staffing, and improvements for this course.

To say that she has risen to the task is an understatement. Personally, her students’ evaluations for this course are on par with those given to faculty with far more experience. For CIS 2010, Therese has accomplished a number of important tasks this past year including 1) reviewing and selecting a new textbook for CIS2010; 2) revising the learning objectives based upon the new book; 3) standardizing the course across all sections (begun in the Fall semester of 2002); 4) preparing a standard set of exams for use by the diverse group of instructors; 5) preparing a standard set of assignments for the course; 6) coordinating the preparation and administration of the departmental final exam; and 7) integrating WebCT into the course.

Her rationale for implementing WebCT was to 1) allow self testing of students; 2) provide instructional materials on-line; 3) allow for feedback throughout the semester; 4) allow for online submission of assignments; and 5) allow for online grade books for student access.

Ms Viscelli was also involved with Dr. McDonald in developing a computer literacy testing program for students from the Robinson College of Business. Additionally, as part of the overall literacy testing plan, she is also developing a remedial course that will be mandatory for any student failing to pass the computer literacy exam.
Recent Research Activities

Conference Proceedings Papers

Jonathan Wareham

Jonathan Wareham is an Assistant Professor in the Department of Computer Information Systems at Georgia State University. Jonathan holds an A.B. in economics and an A.B. in comparative literature from the University of California at Berkeley, an MSc. in accounting and finance and a Ph.D. in information systems from Copenhagen Business School. Prior to pursuing graduate studies, he held management positions with Unilever and within the high-tech sector. His research focuses on the intersection of information technology, economics and strategy. Specifically, he is interested in the way that IT changes business models and the transaction patterns between consumers, firms and markets. He is a frequent speaker at national and international conferences for both academic and practitioner audiences on these subjects. Dr. Wareham’s research has been published in such journals and proceedings as Information and Organization, Journal of Organizational Computing and Electronic Commerce, Information Systems Journal, European Management Journal, IEEE Computer and the International Conference on Information Systems.

Recent Service Activities

In that half year that I have been at RCB, my service has primarily been in academic tasks. In addition to participating on two dissertation committees, I have been an AE for ICIS 2004, and have reviewed over 30 journal papers and conference proceedings. In addition, I have participated in several promotional activities for the department. I never turn down an opportunity to serve.

Recent Research Activities

Journal Articles


**Conference Proceedings Papers**


**Books and Monographs**


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**Recent Teaching Activities**

Dr. Wareham was the recipient of the Myron Greene Teaching Excellence Award in 2003. He taught a minimal load for us in 2004 as he is currently a Visiting Professor at ESADE, Department of Information Systems for the Academic year 2004-2005. However, he did teach CIS 8470, “e-Commerce Applications” and IB 8710, “International Technology Issues and Policies.”

Dr. Wareham also devoted a considerable amount of time in moving the technology used in the CIS 8470 course to the Microsoft .NET integrated development environment (IDE). Efforts such as these are generally recognized and appreciated by students. Although making this switch entails as much effort as creating a whole new course preparation, the students’ comments with regards to Jonathan’s instruction for CIS 8470 were extremely positive.

Dr. Wareham is also the co-chaired a doctoral dissertation committees. The Ph.D. student involved successfully defended his dissertation proposal. We all wish Jonathan a fruitful visit and look forward to his return to the CIS Department’s faculty.
Richard Welke is currently Professor of CIS and Director of the E-Commerce Institute of the J. Mack Robinson College of Business at Georgia State University. He has held academic appointments at Erasmus University, the University of Toronto, Tilburg University, SUNY at Buffalo, and at McMaster University. He was the founder and president of Methodworks, Inc., the CEO of Meta Systems, Ltd., and interim CIO for the Law Companies Group, Inc. (Atlanta, GA). He was a founding member of IFIP WG 8.2, the International Conference on Information Systems, the TIMS College on I/S and the first editor of MIS Interfaces. Dr. Welke is the author of more than 50 books and papers on information systems, and the originator of the OPRR meta-model and "methodology engineering," two widely used concepts in the field of systems development methods. His present research interests are in component-based systems development, intranet delivery platforms, and the various business and technical facets of digital commerce.

Recent Service Activities

Academic Unit

Center for Process Innovation. My service activities related to the Center are reported in the “Managerial Section” of this report.

Computer Information Systems. Member of the CIS new-MBA curriculum committee. Member of the “Full Professors” conclave sessions. Member of the CIS Department P&T committee. Member of the CIS APR committee.

College of Business Administration

None.

University

CIO Search Committee. Member of the committee that interviewed and selected the new Associate Provost and CIO for GSU. Attended several organizational meetings and two four-hour long video interview sessions with candidates selected by the search firm.

Provost’s Department Chairs Committee. These sessions meet about once a month to discuss topics chosen by the Provost for discussion by the chairs. I attended four of these meetings during CY2004.

Senate. I became a senator from the eCommerce Institute beginning July, 2003. I requested and was appointed to the IS&T. These committees meet approximately once a month. I attended approximately half of all meetings; I was unable to do so in the fall due to course scheduling conflict with established committee meeting time.

Technology and E-Commerce Entrepreneur Workshop. Panelist for three-hour conference run by the GSU student organization on Entrepreneur, January 24.

Community

Digital Ball. For the fourth year running, I was one of seven hosts for the Digital Ball, a charitable event run by TechBridge. This also included several “pre-event” activities. This is the third year in this role. Ball held May 3, 2004.
Recent Research Activities

**Journal Articles**


**Books and Monographs**


**External Grant Awards**