Mission

"Informatics" is the study and application of information technology to the arts, sciences, and professions, as well as the use of information technology in organizations and society at large.

The mission of the school is to empower the economic development of the state by providing graduates with the knowledge and skills to effectively and creatively use information technology and digital technologies in our rapidly changing society. The goal of the school is to offer interrelated degrees that complement existing academic programs and to expand opportunities for careers involving information technology.

Goals and Objectives

1. The School of Informatics will have a community of degree seeking students who are committed to achieving their academic goals.

   a. To recruit students from central Indiana and beyond.

   Campus Planning Theme: Campus Climate for Diversity
   Secondary Goals:
   Sub Unit: None
   Time Frame: Ongoing.

Actions taken for 2004-2005:

Continued the marketing and development of the degrees offered at the undergraduate level in informatics, new media, and health information administration. Continued the marketing of graduate degrees offered in health informatics, human-computer interaction, chemical informatics, laboratory informatics and new media. Will begin marketing of the Informatics doctoral program in the bioinformatics and health informatics programs which begin fall of 2005.

Undergraduate Recruitment and Marketing Activities:

- Hosted six "Prospective Student" days each semester at which students and family members were given the opportunity to talk with professors, sit and participate in a classroom, learn about the School of Informatics (SOI) programs and plans of study, and view a variety of student projects.
- Visited all high schools in Marion County and the seven surrounding counties.
- Presented the 2+2 program at Ivy Tech.
- Visited other Indiana University (IU) campuses to promote the Health Information Administration (HIA), New Media (NEWM), and Informatics (INFO) courses and degree opportunities.
- Presented at the IUPUC recruitment days.
- Talked with students at the IU Bloomington health careers day.
- Talked with prospective students in the HIA program at IU Southeast.
Invited to make presentations to IT and interactive instructors at area high schools regarding SOI programs and career opportunities in various fields of study.

Implemented VisionFest, a student animation festival, making student animators aware of the program in New Media. VisionFest drew over 100 entries representing schools from across the U.S. and Canada as well as the United Kingdom, Japan, Australia and Iceland.

Invited prospective undergraduate students and their families for SOI tours and class visits. Sign up available at: [http://informatics.iupui.edu/i/131](http://informatics.iupui.edu/i/131)

Organized a booth with green screen technology demonstrations for the Indiana State Fair utilizing 11 students, 15 staff and nine faculty volunteers.

Promoted the HIA program and the SOI with two billboards during the summer months.

Attended the alumni career fair in University College.

Organized a booth at Explore IUPUI with seven student, three staff and four faculty volunteers. Faculty offered demonstrations in Photoshop and Digital Sculpture.


Organized the Informatics Summer Camp, July 2005.


**HIA Recruitment and Marketing Activities:**

- Started the HIA Connection student club to promote the profession and the program.
- Participated in the Health Career Fair during fall semester at IU Bloomington.
- Participated in Health Career Fair at Henry County Memorial Hospital.
- Participated in the SOI exhibit at the Indiana State Fair.
- Participated in Explore IUPUI.
- Participated in Explore IUPUC.
- Participated in Student Government Fair.
- Presented at the Informatics Women’s Organization (IWO) Real Life 101 Panel Discussion regarding health care careers and actual life experiences.
- Hosted a reception for Indiana University Health Information Administration alumni at the American Health Information Association (AHIMA) annual meeting.
- Attended the Management Association’s National Convention in Washington, D.C. Had an opportunity to meet with alumni from around the U.S., make them aware of changes to the program and opportunities for their involvement with the School of Informatics.
- Promoted the HIA program by billboard advertisement near the state fair grounds during the 2004 Indiana State Fair.
- Presented to Informatics class 1101 regarding the HIA program.
- Presented at the Indiana Health Information Management Association Fall Retreat regarding the HIM profession.
- Met with Office Team Health Care to recruit future employees into HIM profession.

**Graduate Programs Recruitment and Marketing Activities:**

- Explore IUPUI
- Indiana State Fair
- Expo Center Graduate Booths
- Rotary Club Tradeshows
- Indiana Health Industry Forum
- Earlham College, Richmond, IN

**Laboratory Informatics Summer School:**

In conjunction with the LIMS Institute, the SOI will develop and offer a "laboratory informatics summer college" for summer, 2006. The summer session is the world’s first intensive summer school offering graduate courses focusing on laboratory informatics. The purpose is to open up the world of informatics to
graduate courses focusing on laboratory informatics. The purpose is to open up the world of informatics to IT professionals, and similarly to unlock the secrets of IT for laboratory scientists.

SOI Associate Dean and Professor of Informatics, Douglas Perry, serves as chair of the organizing committee for the Laboratory Informatics Summer School. Dr. Perry is also the Chair of the education committee of the Association of Laboratory Animation.

New Ph.D. Program:

A Ph.D. program in Informatics was approved through the Board of Trustees and the Commission for Higher Education. Different tracks will be offered for the program. The doctoral programs of health informatics and bioinformatics started in fall of 2005. A faculty member for the HCI doctoral program is currently being recruited. Several students in New Media have expressed interest in a similar program.

International Exchange Programs:
A student exchange program with the University of Bremen, Germany continued with two German students attending the Media Arts & Science Masters undergraduate program in fall 2005:
http://informatics.iupui.edu/n/158

The SOI also entered into an agreement with the University of Applied Sciences in Wiesbaden, Germany for faculty and student exchange in laboratory informatics. Another exchange agreement was made with the National Chengchi University U&G in Taipei, Taiwan.

Marketing tools:

Objects with SOI Name and Logo:
A number of marketing devices have been employed by the SOI, not the least of which were the programs and tours presented at the ICTC Building dedication to a variety of target audiences. A number of items bear the SOI name and logo including the 3D glasses used for viewing 3D stereoscopic video in the IT building. SOI items designed for student use include frisbees, license plate holders and stadium cups. For other audiences, the School distributes mouse pads, CD cases and retractable identification clips.

Printed materials:

All SOI print materials are routinely reviewed for needed changes. The Laboratory Informatics brochure has been revised, and the HIA program has created two additional brochures to promote its new certificate programs. In addition a brochure was created for the Ph.D. program in Bioinformatics and Health Informatics.

Stories, Listings and Advertisements in Print:

Articles and calendar listings promoting the VisionFest student animation festival were found in WIRED magazine, 3D World magazine, Indianapolis Monthly, Indiana Business Journal, The Indianapolis Star and NUVO Newsweekly. Not to be forgotten are the two billboards for HIA and Informatics that were up in the vicinity of the Indiana State Fair in the summer months. To promote the festival and to attract student submissions, VisionFest materials were mailed to over 1100 schools including all post secondary schools with a fine arts and/or an animation program in the United States and Canada and nearly all high schools in Indiana and surrounding states. Other print marketing includes advertisements in the AHIMA convention program, Animation Magazine, Indianapolis Woman magazine, Insight and the IUPUI Student Planner.

Electronic Media:

The School has produced a television promotional spot that ran on network television, frequently appearing locally before "This Week in Business" on Sunday mornings. More recently a promotional radio spot has run during prime time drive time on WFYI Public Radio. On campus, a Flash commercial for the SOI can be viewed on the screens in University College. The SOI has a demo reel of student work that is used in a number of outreach and recruitment settings.
3D Animation Presentations:

Visiting Research Associate Albert Williams showed "Painting with Electrons" and/or "Hip and Knee" 3D animation presentations to:

- New Media classes N101 fall of 2004 and N210 fall of 2004 and spring of 2005
- ICTC Building Dedication, October 13, 2004, shown in auditorium of 200 attendees and overflow rooms
- Internet 2 Reception at Ruth Lilly Health Education Center, October 27, 2004, over 200 attendees
- Program for Counselors at IUPUC, November 5, 2004
- Dental School faculty, November 19, 2005
- John Schilling, Lilly Group2, November 19 and December 3, 2004
- Digital media visitors from the Children s Museum, December 2, 2004 (Note: after this meeting one of their staff members was accepted and is enrolled for fall 2005)
- Joanna Henning and group at Lilly LTC, December 8 & 9, 2004
- Jill Murrell and Pathology group on January 7, 2005 and Dr. Eble and Pathology group on February 9, 2005
- Three classes of fourth grade students at the Ruth Lilly Health Education Center, January 12, 2005
- High school student visitors, January 14, 2005
- International visitors from Taipei, January 18, 2005
- Presentation of Technologies to Indiana State Legislators, January 24, 2005
- Hoosier Association of Science Teachers, Inc. (HASTI) 35th Annual Convention, February 2-4, 2005, over 2000 attendees
- Judy Clayton of Operation Walk, February 8, 2005
- Senator Zakas and others, February 24, 2005
- IUPUI Solution Center Conference, IT building, March 15, 2005
- Dr. Berend of Operation Walk, March 23, 2005
- Rotary Luncheon at Murat Center during Informatics Dean s Presentation on March 29, 2005
- SOI s Musical Celebration - Informatics and Civic Engagement event here on April 9, 2005, approximately 150 attendees
- Representatives from Ball State University s Center for Media Design, April 13, 2005
- Members of the Indiana Medical History Museum on April 14, 2005
- An Evening with Three Chefs, Ruth Lilly Health Education Center dinner, April 30, 2005, approximately 250 attendees
- Dow Agro Sciences representatives, June 9, 2005
- SOI Summer Camp, June 15, 2005
- Representatives from Mahasarakham University, Thailand, June 24, 2005
- Representatives from the Fachhochschule Wiesbaden University of Applied Sciences, Wiesbaden, Germany on June 27, 2005
- Several SOI faculty candidates who interviewed for a position with the school

Website Revisions:

A new webmaster was hired in May when the former webmaster took another position closer to his home. He has undertaken two simultaneous Web projects:

- Revision of the New Media program website (IUPUI only)

  This effort is intended to attract new students to exciting content, and to better demonstrate the character of the Media Arts & Sciences (New Media) program to employers, donors and collaborators. New Media at IUPUI is the hotbed of digital interaction, web development and multimedia, and we plan to use this brochure site to show that in a compelling, effective way.

- University-wide gateway site for Informatics
This goal of this project is to simplify the message of Informatics throughout the IU system. It is being planned and developed (and will be maintained) as part of a cross-campus collaborative between IUB, IUPUI, and IUSE. It will allow all Informatics campuses to share common data elements, to avoid redundant content development requirements. In addition, it will serve as a central entry point into the Informatics discipline for all interested audiences, so that Informatics is well-defined and accepted as a viable source of expertise regarding information technology both locally and internationally.

Aside from these projects, web operations at the IUPUI campus have addressed a steady stream of maintenance and content update issues. One pressing need is the implementation of a distributed content management system to eliminate content update bottlenecks (especially in such areas as faculty biographies and research publication posting). The new webmaster is currently assessing appropriate measures for this though it would be globally beneficial to see this need addressed at a campus or university-wide level, since it's likely a common need for all schools.

Evidence of Progress for 2004-2005:

Eight new students were admitted to the new doctoral program in informatics. Enrollment numbers increased each year and this year SOI is stable and not experiencing a large decline as other university programs.

VisionFest has brought raised visibility to the School of Informatics within the world of new media. Animation Magazine carried a half page advertisement promoting the festival that appeared in two separate 2004 issues. Readership of the magazine and its online version reach approximately 150,000 readers per month. These specific issues were strategically selected since they have a bonus distribution at two major conferences, Siggraph and ComicCon. A similar ad was carried in Animation Magazine this fall and distributed at the Ottawa International Animation Festival in October. WIRED Magazine noted the festival on their calendar of June events using a still image from a student submission as a full-color, full-page background to the calendar. A half-page full color ad in WIRED Magazine is valued at over $34,000. The festival also received a prominent listing in another industry publication, 3D World, headquartered in the United Kingdom.

Activities planned for 2005-2006:

Website:

- The revision of the New Media program website (IUPUI only) project is in Phase 2 design stage and nearing the first iteration of usability testing. It is expected to launch by Spring 2006
- The University-wide gateway website for Informatics is in Phase 1 content development. A launch date has not yet been determined

Graduate Program:

A new position of academic specialist/graduate coordinator was filled in May 2005. Her plans are to participate in six graduate and professional recruitment fairs, with several purposes: to meet directly with interested students to provide them our materials and answer questions in person, to meet with the Career Office personnel at the various institutions to apprise them of our programs and provide them with materials, and to network with other participants to provide information about our programs and to learn about mutual opportunities.

Graduate recruiting booths:

- Earlham College, Richmond, IN
- DePauw University, Greencastle, IN
- Purdue University, West Lafayette, IN
Ohio State University, Columbus, OH
Donison University, Granville, OH
University of Chicago, Chicago, IL (a first ever fair hosted by 11 colleges and universities in the Chicago area)

Special Events Planned:
- IU Staff Council Retreat, Tour of IT building and Informatics faculty 3D presentation, July 2005.
- WISH-TV VIP luncheon, October 2005.
- American Medical Writers Association Presentation, October 2005;
- IU Purchasing Department Retreat, October 2005.
- Department of Public Works demo and tour of IT, October 2005.
- Tech Point Booth, November 2005.
- "State of New Media" Creative Street Media Group Industry Series, November 2005, Pat Miller, Indiana Secretary of Commerce, speaker.

International Exchange Activity:

As noted below, the SOI has entered into or is in the process of negotiating a number of exchange partnerships around the world. In the case of African University and the Ghana Telecom University, initial contacts with them occurred in summer 2005. Currently, we are in the process of working out the details of a "2 + 2" agreement between the New Media program and Rajagiri School of Engineering, we are finalizing the exchange details with National Chengchi University, and finally, we along with other IUPUI schools, are working toward the establishment of the Moi University Partnership.

Exchange Partnerships:

- London Institute of the Arts University, London UK, initiated 1999 no formal agreement
- University of Bremen U & G, Bremen, Germany, agreement July 1, 2001
- National Chengchi University U & G, Taipei Taiwan, agreement January 18, 2005
- Wiesbaden University of Applied Sciences, Wiesbaden Germany, agreement June 27, 2005
- Ghana Telecom University College*, Accra Ghana, under negotiation
- African University, Tali Cameroun initiated June 5, 2005, under negotiation
- Moi University U & G, Eldoret, Kenya initiated August 2005, under negotiation
- Rajagiri School of Eng. & Tech / Mahatma Gandhi U. U & G, Kochi, Kerala India, initiated Sept. 2005 under negotiation

Doctoral Program:

Continue to expand the doctoral program. Several students in the new media graduate program are interested in a doctoral program related to new media. Hire HCI faculty so a doctoral program in Human Computer Interaction may begin fall of 2006.

☒ b. To motivate students to persist in achieving their academic goals.

Campus Planning Theme: Teaching and Learning

Secondary Goals:
Sub Unit: None
Time Frame: Ongoing.

Actions taken for 2004-2005:
The Informatics Women’s Organization (IWO) held two workshops targeted to undergraduate students. Visiting research associate, Beth Lykins, presented a program on Information Architecture and Dreamweaver. The IWO held its second annual fall conference on November 13, 2004. As part of the program Associate Dean Sara Hook discussed academic choices in the SOI, Teresa Bennett, Director of Outreach of the IUPUI Solution Center, discussed internships and part-time jobs, and Elena Bertozz, professor from IUB discussed women characters in computer games.

The president of IWO, Informatics undergraduate student Barbara Howrey, was chosen as the Ice Miller Undergraduate Scholarship Winner at the Women in Hi Tech Leading Light Award Ceremony on September 29, 2004.

The first VisionFest student animation festival organized and hosted by the School of Informatics was an indisputable success. The festival, which will be repeated in June 2006, drew well over one hundred entries in classical and 3D animation, scientific simulation and visualization, and sequential art. To better serve the needs of student animators, all submissions meeting entry requirements received written critiques from a panel of jurors.

VisionFest engaged prominent industry leaders to serve as jurors and guest presenters including internationally-recognized animator and animation historian, John Canemaker, professor and director of the Animation Program at NYU Tisch School of the Arts. Other guests included Bob Schreck, Batman Editor at DC Comics; Matt Wagner, DC Comics; Scott and Georgia Ball, The Animation Closet; Eric Radomski, Warner Bros. Animation; Rich McKain, Blue Sky Studios; Zareh Gorjian, NASA Jet Propulsion Laboratory; and Michael Strobl, Visual Concepts Entertainment. The participation of such a distinguished group of individuals was evident in the quality of presentations, including those drawing upon the expertise of the individual invited guests as well as the group portfolio development session and an impromptu masters class.

Evidence of Progress for 2004-2005:

It is noteworthy that all 2005 presenters expressed an interest in continuing to be a part of what they deem an important service to students in new media. In a letter from John Canemaker following the festival, he writes, "VisionFest is a terrific and necessary showcase and forum for young animators. More, more, more!"

There have been a number of other positive outcomes from the festival, not the least of which is the additional visibility. As a result of the festival, two award-winning students have entered conversations with a talent recruiter from Walt Disney Feature Animation. Recent interviews with School of Informatics students have indicated that they have been inspired by the festival to produce work of the highest caliber. Students specifically noted that they valued the written critiques they received from jurors on their competition submissions. Finally, the festival provided a vehicle for collaboration with area businesses.

Activities planned for 2005-2006:

VisionFest will be held again in June 2006. Visit www.visionfest.org to see award winning pieces, among other projects. This year we will hold the Visionary 100 where only 100 entries will make it to screening stage. These will be distributed among the competition categories according to the quality of work submitted.

☑ c. To retain students throughout all degree programs.

Campus Planning Theme: Teaching and Learning

Secondary Goals:

Sub Unit: None
Actions taken for 2004-2005:

Curriculum Development for HIA:

- Developed distance education for all junior classes. These courses will be offered in the Fall of 2005
- Developing distance education for the senior year courses.
- Conducted surveys with recent graduates of the HIA program to evaluate the effectiveness of the program.
- Ruth Walker was accepted into the Jump Start program in the IUPUI Office of Professional Development to develop a course for distance education

Curriculum Development for New Media Program:

Joe Defazio, the interim associate director of the New Media program and president of the Informatics faculty, has held bi-weekly meetings with New Media faculty to discuss course descriptions and course revisions. The biweekly format allows faculty to address any issues of concern as might arise so as to make the program better for our students.

Online Course Development:

Some new online courses have been offered in the School of Informatics. Associate Dean Sara Hook has now taught five online courses. Assistant Professor Jones taught the first online Informatics course, and HIA developed a number of online courses over the summer. While some classes need hands-on experiences and lab opportunities, some classes lend themselves to online instruction. This does not minimize faculty workload. Although online courses are time intensive for the instructor, it does increase enrollments since the class works around every students schedule and does not conflict with other class meeting times. Online classes can be held without committing to classroom space.

Facilities:

The majority of faculty and administration in the SOI moved into the new building in September 2004. This allows for cohesiveness and consolidation of programs. The offices of Student Services was also relocated from the Walker Plaza building to the new IT building, giving students greater access to advisors and allowing for continuity in the education process. Student services had the honor of receiving a 100% satisfaction rate among students polled by the university.

The Informatics undergraduate program as well as the Health, Chemical and Laboratory Informatics graduate programs continue to be housed in the Walker Plaza building. The computational laboratory and robotics laboratory for the Laboratory Informatics program continues to grow and attract interest from various companies wishing to make donations to the program in terms of software and hardware. We hope that the eventual completion of the Life Sciences building as well as the proximity to the new Clarian facility will attract even more students to this worthwhile program.

Evidence of Progress for 2004-2005:

Retention evidenced in students completing the program: Associate of Science (AS), Bachelor of Science (BS) and Master of Science (MS) in chart attached.

Activities planned for 2005-2006:
Continue to revise curriculum to meet students’ needs.

Curriculum Development for the New Doctoral Program:

I690 topics courses will be offered in the fall of 2006 for the Ph.D. program. At this time the Indianapolis campus is sharing the doctoral courses with Bloomington. The new graduate program coordinator, who serves on the campus-wide curriculum committee, is putting these courses together. By next year it should be ready for approval on both campuses. A new program brochure will be printed for the Ph.D. program. The courses in the brochure will be ready for fall 2006.

☐ d. To provide excellent internship/capstone project opportunities.

Campus Planning Theme: Teaching and Learning
Secondary Goals:
Sub Unit: None
Time Frame: Ongoing.

Actions taken for 2004-2005:

Several graduate and undergraduate students have secured internships and attached are updated reports of companies that are providing those internships. The SOI is frequently approached by businesses and non-profit organizations for interns or are recruited to work with students who wish to work with outside organizations in fulfilling their capstone requirement. The SOI posts job opportunities on its website.

Evidence of Progress for 2004-2005:

Employers continue to contact the SOI with internship opportunities, and students are successfully placed in internships. The first graduate of the HCI Graduate Program received his diploma this May 2005 and found employment as a usability engineer in Indianapolis. Two other students, yet to graduate, have found employment as interaction designers based on the knowledge acquired from the HCI program. Several students have contacted our school that have found employment soon after graduation. The HIA program has 100% student placement for 2004 and 2005 graduates.

Activities planned for 2005-2006:

New internship director, Beth Haggenjos has an Internship Program Development Plan that she and Ed Sullivan, director of the IUPUI Solution Center designed that details the program’s purposes and goals. The Informatics Career Services Office has purchased eCampusRecruiter software that will allow students to search for job positions. The software will track information such as who has applied to what positions and where placements have been made.

Beth will be spending time getting to know the students and making them aware of the services we now offer through a number of ways including making presentations to SOI classrooms.

☐ 2. The School of Informatics will have a faculty of the highest quality representing the core disciplines in its diverse degree programs.

☐ a. To market Informatics as a prestigious school providing great opportunity for faculty to develop rewarding academic careers.

Campus Planning Theme: Best Practices
Secondary Goals:
Sub Unit: None
Time Frame: Ongoing.

Actions taken for 2004-2005:

- Continued to develop the SOI website as a marketing tool and point-of-inquiry for prospective faculty. Added new on-line application tool for prospective faculty.
- Faculty and administrators presented at conferences throughout the US and abroad to describe Informatics as a discipline, and interest prospective faculty recruits.

Evidence of Progress for 2004-2005:

Faculty positions being filled in several areas that are needed to expand master and Ph.D. programs.

A tenure-track position advertised for Human-Computer Interaction in April 2005 was filled beginning November 1, 2005. Karl F. MacDorman received a B.A. in computer science from the University of California, Berkeley in 1988. He received a Ph.D. in machine learning and robotics from Cambridge University in 1996. He was an associate professor at Osaka University, Japan (2003-2005). Previously, he was assistant professor in the Department of Systems and Human Science at the same institution (1997-2000), and supervisor (1991-1997) and research fellow (1997-1998) at Cambridge University. He has also worked as a software engineer at Sun Microsystems and as chief technology officer for two venture companies. He has published 40 papers in HCI, robotics, machine learning, and cognitive science.

Activities planned for 2005-2006:

- Active recruitment underway for new faculty in HCI, Clinical Laboratory, a senior bioinformatics faculty member, and several research associates.

Activities planned for 2005-2006:

Campus Planning Theme: Best Practices

Secondary Goals:

Sub Unit: None

Time Frame: Ongoing.

Actions taken for 2004-2005:

Announcements of faculty openings were placed in the Chronicle of Higher Education, the IUPUI HR website as well as the School of Informatics website. Searches currently underway in Informatics to fill faculty positions for:

- Tenure track faculty in Clinical Laboratory Informatics
- Research associate position: one in laboratory informatics and five for the Ruth Lilly Health Education Center project
- Bioinformatics senior faculty
- Clinical Assistant Professor in HIA

Evidence of Progress for 2004-2005:
Clinical assistant professor opening for Health Information Administration was filled and began in July 2005.
Two visiting professors in Informatics advanced to tenure track assistant professors from a general informatics search and screen ad.
A joint Computer Information Technology/Informatics position was filled that began in August 2005.
Faculty opening in Human-Computer Interaction was filled and began on November 1, 2005.
Interviews for the position in Clinical Laboratory Informatics began on November 16, 2005.

Activities planned for 2005-2006:

- Online application form is available on the Informatics and New Media web sites so that faculty may submit their CV directly to the school.
- Current postings include six open positions for research associates, one for tenure track clinical laboratory informatics faculty and a senior bioinformatics faculty member.

☑ c. To hire excellent faculty in areas of demand within growing academic programs.

Campus Planning Theme: Teaching and Learning
Secondary Goals:
Sub Unit: None
Time Frame: Ongoing.

Actions taken for 2004-2005:

New faculty hired this year to accommodate the school's growth:

1) Felisa Tennant, MIS, RHIA joined the faculty of the HIA Program on July 1, 2005. Previously, Felisa was the Health Care Data Administrator at Indiana University in Bloomington. She brings data mining and decision support experience to the faculty, as well as experience as a supervisor in the Health Information Department at Johnson Memorial Hospital in Franklin, Indiana.

2) Kelsey Forsythe, Ph.D., assistant research scientist, is currently coordinating the Chemical Informatics program at the Indianapolis campus. He has a joint appointment between the School of Science, Department of Chemistry and Chemical Biology and the School of Informatics. He was a post-doctoral researcher in the chemical dynamics group at Argonne National Laboratory (1999-2001), Assistant Scientist in IUPUI Department of Chemistry and Chemical Biology (2001-present), and Director of the IUPUI School of Science Computational Molecular Science Facility (2001-present).

3) Narayanan Perumal, Ph.D. advanced from a visiting appointment to tenure-track assistant professor. He had teaching assignments at Florida State University and Florida Agricultural and Mechanical University at Tallahassee, Florida. He has taught a variety of undergraduate and graduate courses in Biology, Information Systems, Informatics and Bioinformatics. Dr. Perumal serves as a thesis advisor to the MS students in Bioinformatics and addresses inquiries from potential students interested in the MS program in Bioinformatics regarding the requirements for admission. He is the recipient of an NIH-BRSG Award and an NIH-RCMI Junior Faculty Development Award.

4) Malika Mahoui, Ph.D. advanced from a visiting position to a tenure-track assistant professor. She worked for four years as an assistant professor at the University of Waikato in New Zealand. Recently she was involved in research and teaching at Purdue University, University of Pennsylvania, and at the department of electrical and computer engineering at IUPUI.

5) Huamei Wu, Ph.D., Assistant Professor, Computer Information Technology (CIT) and Informatics, joined the School of Informatics faculty August 1. Dr. Wu has a joint teaching appointment with the School of Business Administration and department of Computer Information Technology...
Computer & Information Technology at IUPUI. Dr. Wu joins the faculty from northeastern university, where she completed her Ph.D. in Computer Science and Information Science earlier this year.

5) Elisabeth Hinshaw-Osgood brings to the position of academic specialist/graduate program coordinator extensive professional experience in academic administration, advising, and international education, with both graduate and undergraduate students. Her professional background includes not only administration, but also teaching, librarianship, and research in grant funding. A graduate of the IU School of Library and Information Science, she is personally knowledgeable about the graduate student experience at IUPUI. Prior experience in international student and study abroad advising at The Claremont Graduate University, Colgate University, and IUPUI, along with her academic credentials, support her work as an advocate for graduate students in the School of Informatics. Her teaching assignments have included teaching English as a Foreign Language (TEFL) at Koryo International Women’s College in Japan and teaching TEFL as a Peace Corps Volunteer in the Central African Republic. Her librarianship experience has been with both public and university libraries in California and at IUPUI.

Evidence of Progress for 2004-2005:

Our School continues to attract tenure-track faculty from Indiana and abroad.

Some faculty activities this past year:

Professor Douglas Perry and his group of researchers have fully activated the Beckman Coulter Biomek 2000 robot to perform liquid handling and other tasks involving 96-well plates; are just completing the re-engineering of the Zymark P3 robot for research on new robotic programming (the resulting work will be presented at LabAutomation 2006); and are currently using development programming to transition the Zymark robot from motion-level programming to task-level programming.

Faculty member Durwin Talon won the Glen W. Irwin Award presented in October 2005 for his work with the VisionFest student animation festival.

Activities planned for 2005-2006:

Current postings include six open positions for research associates, one for tenure-track clinical laboratory informatics faculty and a senior bioinformatics faculty member.

☐ d. To support and retain current and newly hired faculty.

Campus Planning Theme: Best Practices

Secondary Goals:

Sub Unit: None

Time Frame: Ongoing.

Actions taken for 2004-2005:

- Promoted two visiting professors to tenure track assistant professors.
- Examined faculty teaching loads.
- Informed faculty of ongoing campus-wide development efforts offered through the Office of Professional Development.
- Offered promotion and tenure workshops on a regular basis. Associate Dean Sara Hook ran a promotion and tenure workshop for all tenure-track faculty members in the School of Informatics, covering all aspects of P&T policies and processes in the spring of 2005 when the new guidelines came into effect.
Continued faculty evaluations and mentoring for professional development, including promotion and tenure.

Promoted faculty self-governance through an election of faculty members to office. Faculty formed new committees including undergraduate program committee, graduate program committee, technology and library resources committee, policy committee, budgetary affairs committee, student affairs committee, agenda committee, faculty affairs, promotion/tenure and annual review committee, and nominating committee. Previously these were assigned by administration but now faculty will decide on what committee they wish to serve.

Engaged the Faculty Policy Committee to revise current SOI bylaws.

The SOI supports faculty in teaching and research by supporting the following graduate students:

Fall 2004: Three teacher assistants are supported for the New Media Program and eight faculty assistants; six for the New Media program, one for Health Information Administration (HIA) program and one for the Human-Computer Interaction (HCI) Graduate program.

Spring 2005: Three teacher assistants are supported for the New Media Program. The school supports a total of seven faculty assistants: three for the New Media Program, one for HIA program, one for the HCI graduate program, and two bioinformatics students to support Informatics faculty.

Evidence of Progress for 2004-2005:

- One faculty member has submitted his dossier for tenure; two tenured faculty members have submitted their dossiers for promotion.
- Faculty members continue to be actively engaged in teaching and developing sustainable research agendas.

Activities planned for 2005-2006:

- Continue to promote faculty self-governance.

3. The School of Informatics will have an active and robust research program focused upon human need that builds upon existing strengths of the university, state, and beyond.

- To institutionalize the Informatics Research Institute as a place of synergy to develop and explore new ideas in Informatics and related fields.

**Campus Planning Theme:** Research, Scholarship and Creative Activity
**Secondary Goals:**
**Sub Unit:** None
**Time Frame:** Ongoing

Actions taken for 2004-2005:

A team from SOI designed and implemented ArtXplore, a hand-held, wireless information and tracking system for the newly-renovated Indianapolis Museum of Art. This interactive system allows visitors to have quick access to text, images and audio about particular works of art; to retrace their paths through the galleries; and to send electronic feedback to museum staff about the system. It also lets museum staff determine traffic patterns and time spent viewing particular items within the galleries. This cutting edge technology can be adapted to fit many different institutions and is much more compelling than either permanent signage or hand held audio players.
Led by Informatics faculty member Barbara Hayes, a team of SOI research associates constructed an interactive, educational game for the Marion County Health Department’s Immunization Program. Aimed at college-bound high school students and college freshmen, "Danger in the Dorm" promotes the importance of being vaccinated against meningococcal meningitis. The game and its creators were later mentioned in a related article on meningitis, "Student Upgraded to Fair Condition; IUPUI Unveils Program to Raise Meningitis Awareness" in the October 12, 2005 edition of the Indiana Daily Student.

With the IRI, Research Associate Don Huckleberry filmed and edited an educational, training video for the Center on Philanthropy. Produced in both VHS and DVD, the Center distributed the video to community foundations statewide.

Evidence of Progress for 2004-2005:

Faculty members are being awarded grants. Ruth Lilly Health Education Center grant was continued for another three years.

Activities planned for 2005-2006:

A team composed of IRI and UITS’ Digital Media Services designers created educational materials for the Ruboxistaurin marketing group at Eli Lilly & Co. The materials are for use by the group in explaining a biological pathway overactivated by hyperglycemia. For the 2005-06 year, IRI Research Associate Albert William and his team are animating a portion of this pathway for the same Lilly group.

Additional Activities:

- Application of the Optix scanner in collaboration with the Indiana State Museum and the Indianapolis Museum of Art.
- Seek opportunities for intercampus collaborations with the Bloomington Informatics Research Institute, thus capitalizing on strengths native to each.
- Admit the first students to the IRI Academy, providing a unique research internship to undergraduates.
- Develop the IRI website. [http://informatics.iupui.edu/i/124](http://informatics.iupui.edu/i/124)

b. To develop an aggressive agenda of fundable research ideas supporting collaborative models whenever possible.

**Campus Planning Theme:** Research, Scholarship and Creative Activity

**Secondary Goals:**

**Sub Unit:** None

**Time Frame:** Ongoing.

Actions taken for 2004-2005:

For the 04-05 fiscal year, the total number of grant proposals that were processed through the Information Research Institute (IRI) was 24, with a dollar value of $7,148,918. Of those, seven have been funded so far, with a dollar value of $237,757.

Other grants not submitted through the IRI:

- Malika Mahoui received an internal grant valued at $59,999 for the National Institutes of Health (NIH) Roadmap initiative.
- Gary Strong, associate dean for Academic Affairs and Undergraduate Studies, was awarded a $3,500
• Sara Hook, associate dean for Academic Affairs and Undergraduate Studies, was awarded a $2,500 Exploration Traveling Fellowship through the New Frontiers in the Arts and Humanities grant program through Indiana University and the Lilly Endowment.

• Faculty member Susan Tennant received an Arts Council of Indianapolis Creative Renewal Arts Fellowship to engage in creative activities that will yield new directions for sculptural and digital art expression.

• Faculty member Ikuho Yamada received an internal grant for $3,000 from the Office of Professional Development at IUPUI for minority faculty development.

• Faculty member Josette Jones received another $10,000 on top of a $60,000 grant. The first phase of the Virginia Henderson International Nursing Library is almost complete. Phase II of the redesign will include refinement of Phase I plus the addition of a virtual lab for informatics and research students, as well as nurse researchers. It also will add a library for users to store search results and space for the deposit of data bases that can be used by students and researchers. Website: http://www.nursinglibrary.org/Portal/main.aspx?PageID=4001

• Ruth Walker received a Jump Start Grant 2005 from Indiana University

Faculty member Robert (Skip) Comer and Tom Gospel, a former colleague at Thomson, were inventors of a patent awarded to Thomson Licensing S.A. The patent protects a method of setting up the video inputs (DVD player, satellite receiver, etc.) on a television set by allowing the user to "browse" through the various accessories on-screen.

Faculty member Susan Tennant had a sculpture in an exhibition "25 Years of Exhibitions at Herron" at the Indiana State Museum during a show in September 2004." The sculpture is a found-object construction entitled "Woman Under Construction." Tennant was also included in an exhibition that opened February 2005 at the Museum called "Women Who Create."

Evidence of Progress for 2004-2005:

Faculty members continue to receive funding of grant submission proposals and continue to seek copyright and patent agreements for faculty projects and inventions. The Dean's Advisory Council (a group of executive business men and women) has agreed to help faculty on commercializing their projects.

Activities planned for 2005-2006:

Continue to encourage faculty to apply for grants and look for opportunities for research.

☑ c. To create laboratories and administrative space for the research efforts of faculty and research staff.

   Campus Planning Theme: Campus Climate for Diversity

   Secondary Goals:
   Sub Unit: None
   Time Frame: Ongoing.

Actions taken for 2004-2005:

Thanks to the efforts of faculty member Mahesh Merchant, the School received an in-kind donation from the Waters Corporation for the Laboratory Informatics program.

A large room with several work stations on the 4th floor of the ICTC building has been identified for the doctoral Informatics students to use that has several workstations.

Hardware:
Purchased 235 new computers for seven new computer labs in the IT building: SI 128 computers purchased last year were distributed to new faculty and Lab Informatics; SI 129 computers purchased last year were installed in IT 271; SI 126 & SI 130 computers were given to various research labs in Informatics and New Media and sent to the Columbus campus for their Informatics Program; SI 115 laptops will be deployed in IT 256 and used for print release stations in the computer labs; SI 132 G4 Macintosh computers were sold or distributed to faculty.

- Purchased five new servers to replace old servers. Servers are used for licensing applications, printing, anti-virus, student storage and other administrative needs.
- Purchased complete audio-video installations for nine computer labs and four conference rooms.
- Purchased additional video and sound equipment for use in the student equipment checkout pool.
- Need to complete construction of room IT 360/360A.
- Anticipate need to install complete audio and video editing suite of hardware in the Audio Production room (room 360/360A) in the IT building.

**Software:**

In preparation for start of classes in Fall semesters we upgraded all applications used in the classrooms. These applications include the Adobe suite (PhotoShop, Illustrator, After Effects, GoLive, Premiere, Audition, Encore, InDesign), the Macromedia suite (Director, Flash, Fireworks, DreamWeaver, FreeHand), Microsoft applications (Project, Visio, Office), specialized 3D animation applications (3DS Max, Maya), and miscellaneous audio and video editing applications (Final Cut, DVD Studio Pro, QuickTime Pro, Avid x-Press, Discreet Combustion, Digital Fusion, Sound Forge, CakeWalk Sonar).

Purchased increased license counts for applications due to large increase in the number of computers we are maintaining.

**Evidence of Progress for 2004-2005:**

The new computers and software, as well as the new facilities, help us attract and retain students. The new, expanded facilities and expanding programs and research opportunities help us attract and retain faculty.

**Activities planned for 2005-2006:**

The Dean sent over a proposal to Ratio Architects for an audio and video production studio to be house in rooms IT 360 and IT 368. He intends to seek private funding for equipment for the room. The room will provide state-of-the-art sound and video capabilities for the doctoral program in New Media.

Will continue to upgrade and expand the above-listed applications to keep current with industry trends and the needs of our researchers.

- To seek ongoing and sustainable sources of funding for individual and collaborative faculty research projects including program development.

**Campus Planning Theme:** Research, Scholarship and Creative Activity

**Secondary Goals:**

**Sub Unit:** None

**Time Frame:** Ongoing.

**Actions taken for 2004-2005:**
For the 04-05 fiscal year, the total number of grant proposals that were processed through the Information Research Institute (IRI) were 24, with a dollar value of $7,148,918. Of those, seven have been funded so far, with a dollar value of $237,757.

Faculty member Ariel Fernandez submitted two grants titled "Molecular probes for sticky packing defects in proteins" (Lay description: measuring the stickiness of packing defects with molecular force probes" National Science Foundation, Submitted June 2004, Dates: 2/1/05 to 3/31/10, Total direct request $1,291,021, Total with F&A $1,627,208 and NIH, Submitted March 2004, Dates 4/1/05 to 3/31/10, Total direct request $1,249,812, Total with F&A $1,556,982

Faculty member Gunther Schadow submitted the following grants:

- NIH, Value of New Drug Labeling Knowledge for e-Prescribing, 9/30/04 - 9/29/07; Direct costs over three years $1,112,036 Total costs (dir plus indirect) $1,351,378 This one has been awarded.
- NCI (National Cancer Institute) Revision of year 4 budget for Dr. Clem McDonald grant ("Indianapolis Pathology Informatics Network (IPIN)"), Gunther is listed as an Associate Scientist on the grant for 40%. Direct $1,277,860; Total (dir plus indirect) $1,387,729.
- NSF, Sub with Purdue University, Privacy-Preserving Data Integration and Sharing, 9/15/04-5/31/06, Total dir $72,962, Total (dir plus indir) $97,393, this was a budget revision based on Gunther's new appointment with the SOI.

Evidence of Progress for 2004-2005:

Faculty members are submitting successful grant proposals.

Activities planned for 2005-2006:

Continue to encourage faculty to submit grants.

4. The School of Informatics will have active and dynamic collaborations with business, education and industry to cultivate mutual opportunities for students

a. To establish a working group of business leaders committed to furthering the goals of Informatics and its contributions to the economy of the state.

Campus Planning Theme: Civic Engagement
Secondary Goals:
Sub Unit: None
Time Frame: Ongoing.

Actions taken for 2004-2005:

- Recruited a director of community relations who began work in July 2005. His charge is to elevate the School's profile locally, nationally and internationally via media coverage of faculty and student research projects in the various Informatics disciplines.

- TechPoint meetings are held on Tuesdays in the ICTC building. The Executive Associate Dean, Dr. Darrell L. Bailey, spoke at the December 14, 2004 meeting, which was attended by 40 business leaders from the community.

- Science Informatics Advisory Board (SIA8) which serves the science informatics graduate programs on both campuses met for the first time on April 22, 2005. There are currently 11 members who are business leaders on this board. Membership list: http://informatics.iupui.edu/n/250
The SOI provided a program to the Rotary Club of Indianapolis in March 2005. This included a presentation by Dean J. Michael Dunn. As part of Dean Dunn’s address, visiting research associate Albert Williams showed the 3D stereoscopic animation, "Painting with Electrons" on the John-E-Box.

Approximately 450 attended the dedication ceremony of the ICTC building on October 13, 2004 following months of planning by representatives of the SOI and others. As part of the dedication ceremony, visiting research associate Albert Williams showed the 3D stereoscopic interactive multimedia presentation called "Painting with Electrons." This presentation is intended to demonstrate the basic functions of a typical cell to those without a medical or biology background.

The SOI hosted an evening musical performance and reception on April 9, 2005 to celebrate three years of creative collaboration with Operation Walk. Approximately 160 people attended the event. A new stereoscopic animation created by visiting research associate Albert Williams, "Knee and Hip Replacement Surgery," was premiered. It is a stereoscopic visualization of surgical intervention treating diseases of the hip and knee. In March 2005, the dean and faculty members from the SOI, the dean of the School of Journalism and two journalism students visited Nicaragua with a surgical team to produce documentary photography and videos. Press release: http://informatics.iupui.edu/n/249

A faculty member and staff person attended the IUPUI booth at TechPoint which is targeted to business leaders in November 2004.

Dean of Graduate Studies Douglas Perry met with business leaders of LabWare, Inc.; National Instruments, Inc.; PerkinElmer Corporation; S-Matrix Corporation; Roche Diagnostics, Inc.; Kinematic, Inc.; and AIT Laboratories.

VisionFest provided the School with opportunities to work with MediaSauce, Pathway Productions and Gabriel Interactive. These companies presented their work in the Indiana Gallery program, highlighting the work of these new media companies that are thriving in our own community. The Indiana Gallery is sure to become a featured component of future festivals.

Evidence of Progress for 2004-2005:

Neal G. Moore was hired as the Director of Community Relations, providing publicity and marketing services for the IU SOI at IUPUI. He produces and hosts regularly-scheduled Webcasts and podcasts, providing updates about the School of Informatics. Moore also works with faculty and students affiliated with the Informatics Research Institute. He was recently selected to serve as the first-ever president of the IU School of Informatics Alumni Association.

Activities planned for 2005-2006:

- The new director of community relations is scheduling twice-monthly meetings with community leaders to visit the SOI.
- IU has joined The Research Channel. The SOI will provide TV stories about our faculty and their research, as well as general information about the School beginning October 2005. An early assignment was to attend the Indy Robot Racing Vehicle event, creating video stories about the IU-sponsored vehicle for both the Indianapolis and Bloomington web sites as well as the IUPUI campus web site.
- Planning a student event for late fall with Creative Street, a new media production company in Indy. This will be an opportunity for graduate students and seniors to see what life in the real world is like at a new media company. Video interviews will be conducted with SOI faculty and then posted to our website.
A SOI podcast is planned for the near future. This will probably become a weekly event.
An upcoming lecture by a visiting author is to be held in the IT building. We are investigating videotaping this and providing it to The Research Channel.
Staff to run booth at TechPoint November 2005.

b. To identify and enhance fundraising and development opportunities.

**Campus Planning Theme:** Civic Engagement

**Secondary Goals:**

- None

**Time Frame:** Ongoing

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**Actions taken for 2004-2005:**

- To date, fundraising has mainly been internal through the Capital Campaign which is through the Indiana University Foundation. There are several funds to which staff and faculty can donate including student scholarships, the building fund and then a general fund.
- Investigating a joint appointment with the Center of Philanthropy for a person to engage in fundraising.
- Intend to secure some funding streams with the assistance of the new advisory boards.
- Informatics Alumni reception was held June 9, 2005.
- Created a new brochure for the Health Information Administration (HIA) program which was mailed to HIA alumni, advisory council members and endowment committee members. A letter was included which outlined special requests from Danita Forgey, director of the program.
- Received $30,000 from the Guidant Foundation for two fellowships in knowledge discovery in databases for health informatics graduate students. The first fellowship was awarded to new health informatics graduate student Mary McLaughlin for Fall 2005. Press release: [http://informatics.iupui.edu/n/270](http://informatics.iupui.edu/n/270)
- Established the David M. Ratts New Media Scholarship, created in memory of the respected academic advisor who served as the New Media program’s primary academic advisor. Ratts won numerous awards for his student advising and mentoring and was an active member of the National Academic Advising Association. He was familiar to most incoming freshmen as the instructor of the First Year Experience courses. In honor of Ratts’ commitment to New Media students at IUPUI, the award supports students who have completed the first semester of their junior year. Preference is given to candidates with a record of academic excellence as demonstrated by a minimum grade point average of 3.5. Ryan Knopp was the first recipient of the scholarship.

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**Evidence of Progress for 2004-2005:**

New advisory boards continue to be created for the School and awareness for the School of Informatics is growing among business leaders in community.

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**Activities planned for 2005-2006:**

- Continue to encourage staff, faculty and the general public to donate for student scholarships.
- Hire a jointly-appointed staff member for fundraising activities.

c. To provide ongoing internship opportunities.

**Campus Planning Theme:** Best Practices
Secondary Goals:
Sub Unit: None
Time Frame: Ongoing.

Actions taken for 2004-2005:

Requests are received on a regular basis for internships. While these were coordinated through the assistant dean in student services, they are now coordinated through a new internship program director.

Reports of students doing internships are attached.

Evidence of Progress for 2004-2005:

Beth Haggenjos was hired in September 2005 as the new internship director. She was an associate director of career services for the Kelley School of Business. Haggenjos managed the for-credit and non-credit internship program, advised the Kelley Honors Academy, counseled students in career planning, recruited employers to campus, counseled employers on starting internship programs and employment practices, and provided Myers-Briggs Type Indicator workshops to students. As a result of her work in career services with the Kelley School of Business, only 16 students scheduled to graduate this year have not found employment or secured a commitment to employ.

Activities planned for 2005-2006:

The new internship director, Beth Haggenjos, has an Internship Program Development Plan that she and Ed Sullivan, director of the IUPUI Solution Center designed. The plan details the program’s purposes and goals. The Informatics Career Services Office has purchased eCampusRecruiter software that will allow students to search for job positions. The software will track information such as who has applied to what positions and where placements have been made.

Employer fairs:

- Attend the Indiana Multicultural Job Fair, Indianapolis, IN (sponsored by Indiana Universities and Colleges)
- Attend the High Tech Job Fair, West Lafayette, IN (sponsored by Purdue)
- Attend the IT Job Fair, Bloomington, IN (sponsored by the Bloomington School of Informatics)

Haggenjos is the chair of the MCEIA (Midwest Cooperative Education and Internship Association) annual conference to be held in Indianapolis November 2005.

d. To build awareness of ongoing state government support for Informatics and related university initiatives.

Campus Planning Theme: Civic Engagement

Secondary Goals:
Sub Unit: None
Time Frame: Ongoing.

Actions taken for 2004-2005:

- The efforts of the working committees of the Informatics Dean’s Advisory Council are to develop lines of communication and establish new contacts in the Indiana state government.

http://informatics.indiana.edu/
Evidence of Progress for 2004-2005:

- The new building and programs will create a greater awareness of the SOI.

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Evidence of Progress for 2004-2005:

- Executive associate dean of Informatics was very involved in the planning stages of the new IT Building which helps further the state’s science and technology initiatives:  
  http://informatics.iupui.edu/n/190

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Activities planned for 2005-2006:

- Hire new public relations staff person to help market programs to community and leaders.
- Continue to work with Dean’s Advisory Council to develop lines of communication and establish new contacts in state government.

5. The School of Informatics will actively engage with the community in mutually beneficial projects to enrich the larger community and its people.

a. To build relationships with museums and other not-for-profit organizations.

  Campus Planning Theme: Civic Engagement
  Secondary Goals:
  Sub Unit: None
  Time Frame: Ongoing.

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Actions taken for 2004-2005:

- A team from the SOI designed and implemented a hand-held wireless information and tracking system for the newly renovated Indianapolis Museum of Art. Not only does this allow visitors to have quick access to text, images and audio about particular works of art and to trace their steps through the galleries, but it also lets museum staff determine traffic patterns and time spent viewing particular items within the galleries. This cutting edge technology can be adapted to fit many different institutions and is much more compelling than either permanent signage or hand-held audio players.

- Undergraduate New Media students Andrea Grant, Jennifer Vickrey, Christopher Weideman and Ian Lytle created a website for the Indiana Agriculture Resource Council (IARC) under the supervision of faculty member Dan Baldwin and graduate assistant Michael S. Daubs as part of their N101 course. This newly-developed site was designed to better serve all visitors from agriculture industry specialists to students and the general public. Website:  
  http://www.indag.org/  
  Announcement on collaboration with the SOI:  
  http://site267.webhost4life.com/agriculture/News/

- A public service announcement (PSA) video about using smoke detectors at home produced by New Media graduate students Harlon Wilson, Justin Heidenreich and Ai-Ju Song has been adopted by Riley Hospital for uses on television and its kiosks and Web site. Riley Hospital will also distribute it to their national safety education partners. Faculty member Edgar Huang supervised the production of this PSA in his N501 Foundations of Digital Production class. Video project:  
  http://newmedia.iupui.edu/x/110

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Evidence of Progress for 2004-2005:

The SOI continues to receive many requests for web-based type or computer animation projects that involve faculty and student collaboration.
Activities planned for 2005-2006:

Many of the civic engagement projects that were started in previous years will continue through this year. Several civic engagement projects are now in the beginning stages.

b. To work with K-12 populations.

Campus Planning Theme: Civic Engagement

Secondary Goals:
Sub Unit: None
Time Frame: Ongoing

Actions taken for 2004-2005:

- Informatics hosted the students completion ceremony for the technology summer 2005 program in July 2005 for minority teens ages 12-16 through the Indianapolis Urban League. [http://informatics.iu.edu/n/176](http://informatics.iu.edu/n/176)
- The School of Informatics is part of a $3 million Lilly Endowment grant for Health Education in the 21st Century, in collaboration with the Ruth Lilly Health Education Center ([http://www.healtheducationcenter.org/](http://www.healtheducationcenter.org/)). The capabilities of this facility were demonstrated at the National Association of Health Care Centers (NAHEC) conference in Philadelphia in 2003 as well as at the Internet2 conference, with a reception at the Ruth Lilly Health Education Center. As part of the reception visiting research associate Albert William demonstrated a 3D version of his cell animation using Vis-Box, provided by Dr. Polly Baker’s Pervasive Computing Laboratory. The project demo also featured the RFID computer interface developed by Mary Pietrowitz from Dr. Baker’s laboratory, as well as the special communications protocol developed for the project, which allows a variety of devices, such as audience response keypads, to communication with on-screen presentations. The Ruth Lilly Health Education Center teaches preschool - adults in health education. **The grant has just been renewed for another three years.**

The IU School of Informatics’ collaboration with the Ruth Lilly Health Education Center has made significant progress in the past year. The program has upgraded the Center’s presentation infrastructure and restructured the media assets of the Center to make new growth strategies for the Center possible.

During the last half of 2004, work on the Nutrition teaching space was completed. The Nutrition Theater was the first teaching space to be developed because of its existing problems and its complex subject matter. Software and system development was done on several fronts:

1. Media Server: A central server was developed that featured storage for media assets such as videos and graphics. In addition, the Center’s curriculum was converted to a specialized content management system. Each program was divided into curriculum segments, with metadata about each segment stored on the server. Server scripting provided access to the material on demand.

2. Presentation Interface: The teacher’s presentation interface was developed for a touch screen. From the touch screen the teacher can access any of the Center’s programs stored on the Media Server. The programs are then presented as a timeline of curriculum segments. Each segment provides the teacher with a specialized user interface for the content to be presented, while the content is displayed for the classroom on a large screen. In addition to sequential access to the curriculum, several options are available for presenting graphics and data in a spontaneous manner.

3. Specialized “Viewer” Modules: “Viewer” software was developed for the classroom display. These included viewers for video, graphics, nutritional data, and interactive question-and-answer sessions. The viewer software runs in a customized browser window, and responds to commands from the teacher’s touch screen. The Nutrition Viewer takes input either from the touch screen or from a custom RFID tag reader where food models can be used to allow children to simply place foods on a tray and view the nutrition content of those foods. Some variations of the basic Nutrition Viewer allow for adding content to existing food models, while others allow for creating new food models.
teachers to construct nutrition displays that show an entire day’s meals. A Question Viewer allows students to respond to on-screen multiple-choice questions, using wireless keypads. The responses can be tallied and displayed in real-time. The questions are specialized curriculum segments that exist on the Media Server as a data object, containing information about the text of the question, which answer is correct, the graphics to use, etc. The Question Viewer reads the data object, displays it, then listens for the “voting” messages from the students as they respond. These responses are stored on the Media Server, and form the basis of a data bank that will be used for research in the future.

4. Communication Protocols: Communication protocols similar to instant messaging, were developed for sending data and commands between the teacher’s interface, the server, the wireless keypads, etc. These run over standard internet systems, allowing the Center’s software and audience response systems to be used in any location.

The first half of 2005 saw the Nutrition Theater and the IU School of Informatics’ system being used on a daily basis. At this point, with the structure in place for the six remaining theaters, the bulk of the Center’s curriculum was converted for use with the Media Server. By June, 2005 there were over 60 programs, utilizing some 600 questions. The balance of the Centers teaching theaters was online and ready for the start of the 2005-2006 school year in September.

In addition to the programs presented at the Center, “outreach” programs used laptop computers at local school sites to present programs and use the audience response systems in the field. These computers had versions of the Media Server installed as a standalone system.

Stunning 3D stereoscopic computer graphics visualizations were developed by the School of Informatics team. Computer graphics animations illustrating the circulatory system and nervous system were created to support the Center’s programs, with additional material under development for other body systems. These are being shown in a newly installed multi-screen 3D theater at the Center.

Future Plans:

Providing additional functionality for the Center’s theaters is ongoing.

Additional “viewer” software is under development for specialized class presentation needs. Variations of the Question Viewer are under development to allow “team voting” and to allow teachers to compare students’ responses from pre- and post-test question sessions.

New functionality for the teacher’s touch screen interface will allow control of the multi-screen 3-D theater, with its five projectors and shutter assemblies.

“Authoring Interface” functionality is under development to provide the Ruth Lilly Health Education Center’s staff with the capability of creating and editing content on the Media Server.

Planning is underway for a research initiative that will link students’ health knowledge data with other research, such as collection of body-mass index data from students. The infrastructure that allows student responses to on-screen questions to be collected on the Media Server will be utilized for this. Pilot programs will be conducted to show the feasibility and research value of the project.

3D computer graphics content continues to be developed, with stereoscopic content for additional body systems underway. 3D stereo technology is being leveraged with Internet2 connectivity. Development of streaming high-resolution stereoscopic live video is being conducted, with the expectation that 2-way immersive video teaching environments will be possible with high-speed networking. The Ruth Lilly Health Education Center is an Internet2 Affiliate Member, and a national leader in utilizing high-speed networking for health education.

The infrastructure that has been developed has positioned the Center to expand its programs into additional domains, including licensing agreements with health education facilities in other communities, and on-line programs for communities, schools and individuals. Networking of content delivery has made this achievement a logical extension of the Center’s mission and the collaboration with the IU School of Informatics.
$1.2 million awarded to the SOI for the Ruth Lilly Health Education Project. Project was funded for another 3 years by the Lilly Endowment.

Activities planned for 2005-2006:

- Continue work on the Ruth Lilly Health Education Project.
- Continue to work with K-12 populations.
- Continue to work with the Indianapolis Urban League and teen minority girls.

☑️ c. To work with diverse populations in the community.

**Campus Planning Theme:** Civic Engagement

**Secondary Goals:**

**Sub Unit:** None

**Time Frame:** Ongoing.

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**Actions taken for 2004-2005:**

**Minority Projects:**

After the unexpected death of undergraduate student advisor David Ratts in February 2005, a new student advisor was hired in May 2005. Minority staff Sheila Morris-Watson is our new academic advisor for juniors and seniors in the School of Informatics. She is a member of the National Academic Advising Association and a volunteer for the Indianapolis Children’s Museum. She also works with the Indianapolis Urban League’s Soon to Make a Difference in the Community (SMD.COM) Program, geared toward young ladies ages 12-16. The program encourages minority teen girls to explore opportunities in the world of technology and introduces the students to Informatics and New Media utilizing such programs as Flash, Dreamweaver and Microsoft Publisher. Informatics hosted the students ceremony when they finished their summer camp in July 2005. Students from SMD toured the building during that event.

**Latino Projects:**

**Central America Projects:** Operation Walk

**Goal:** provide technical support and create a digital archive of activities

**Activities:** Operation Walk is a private, not-for-profit, volunteer medical services organization from Indianapolis that provides advanced surgical treatment for diseases of the hip and knee joints to patients in developing countries.

**Operation Walk 2005: Nicaragua**

Darrell Bailey, School of Informatics, Anna McDaniel, Schools of Nursing and Informatics, James Brown, School of Journalism, two journalism undergraduate students accompanied the Operation Walk medical team to Nicaragua in March 2005. The IU team developed a portable electronic health record to support the information needs of the surgical team and documented the trip to increase public awareness of Operation Walk. This is an ongoing civic engagement project. Press release: [http://informatics.iupui.edu/n/249](http://informatics.iupui.edu/n/249)

**Operation Walk 2004: Guatemala**

Dr. Darrell L. Bailey, Executive Associate Dean, and Robert S. Comer, visiting research associate, participated in Operation Walk. They traveled to document a humanitarian team of physicians doing hip and knee replacement surgery in Guatemala in March 2004 with still photography. This included the creation of
Knee replacement surgeries in Guatemala in March 2004 with still photography. This included the creation of a web site at http://www.operationwalk.org which was developed by Comer, clinical assistant professor, Susan Tennant, and graduate student, Brian Miller. Article about trip: http://informatics.iupui.edu/~n163

Operation Walk 2003: Cuba

Dean Bailey and faculty members Tennant and Comer accompanied Operation Walks humanitarian mission (a team of surgeons, anesthesiologists, internists, surgical techs, nurses and support personnel) to Havana, Cuba in April 2003. Comer and Tennant documented the trip and over 30 prosthetic joint replacements for 27 patients with still photography. Tennant and New Media graduate student Brian Miller developed the Operation Walk Web site. The final site is at http://operationwalk.org

Latino projects for the U.S.:

- Clinical Assistant Professor Tennant was the creative director for the STD Express, an interactive CD-Rom about sexually transmitted diseases, supported partly by a grant from the Women's Fund of the Central Indiana Community Foundation. The CD-Rom was produced by Dr. Fife, IU School of Medicine. Faculty member, Baldwin assisted undergraduate students Jon Bergerson, Joy Nellis, Nick Lee, Jeremy Dreher, Devi Hanpal, Gary Schmidt, and Christopher Brown with graphic design. The target audience was inner city women, and the presentation was made in both Spanish and English.

- Mathew Palakal, Director of Informatics Research Institute, continues his work on the IMLS Leadership Grant-funded project CLI0H, the digital Cultural Library Indexing Our Heritage. This project captures endangered archaeological sites around the world and makes them come back to life in virtual reality. http://informatics.iupui.edu/~123 Clinical Assistant Professor, Clinton Koch created the virtual flythrough of the Uxmal (Mayan) Ruins in Mexico that is played at the Indiana State Museum. Clinical Assistant Professor, Susan Tennant, is the project director. A virtual CD-ROM was made in English and Spanish of this project.

- Indianapolis-based company OfficeWorks and the School of Informatics announced the creation of the undergraduate scholarship last year. OfficeWorks is one of the first companies to respond to a scholarship program initiated by the School of Informatics to encourage the business community to invest in the technology education of Indiana students from underrepresented groups.

The scholarship is to benefit an IUPUI freshman pursuing a degree in informatics or media arts and science. The award was designed to encourage students who are Indiana residents of Hispanic descent and who have a record of academic excellence.

The recipient of the OfficeWorks Informatics Scholarship was IUPUI freshman Ryan Andre Earnhart received $2,500 to attain a BS in New Media Arts & Science. Earnhart, of Milford, IN, is currently a student in the Media Arts and Science undergraduate program and hopes to work in computer animation. In 2004, Earnhart graduated in the top 10 percent of his class at Wawasee High School. He is the oldest of three children and has been active in his church for more than 13 years. At IUPUI, he is involved with Campus Outreach. Earnhart plans to graduate in 2008.

Evidence of Progress for 2004-2005:

Activities as specified above.

Activities planned for 2005-2006:

- Continue collaboration with the Indianapolis Urban League in their recruitment of minority girl teens to the use of technology.
- Continue collaboration with Operation Walk
Fiscal Health

*** Fiscal health report for 2005-06 is attached as PDF file.***

Credit hours and student fees
The number of majors remained steady at about 620 in 2004/2005, yet credit hours increased 15% over 2003/2004. This accounted for an increase in student fees over 2003/2004, from $1,523,353 to $1,917,795, a 26% increase. In the 2003/2004 academic year, we adjusted the plans of study for all majors, requiring more courses, and we are reaping the benefits of that modification. Student fees are anticipated to increase by nearly $278,000, or 14% in 2005/2006.

Student support and giving
The School of Informatics awarded 12 student scholarships in AY04/05. A new IU Foundation account was set up for a fellowship awarded by the Guidant Foundation for a Health Informatics graduate student. The Excellence in New Media Scholarship was renamed the David M. Ratts Excellence in New Media Scholarship in honor of the beloved junior/senior advisor who unexpectedly passed away in February 2005.

Facilities
The majority of faculty and administration in the School of Informatics moved into the new building in September 2004. This allows for cohesiveness and consolidation of programs. The offices of Student Services was also relocated from the Walker Plaza building to the new ICTC building, giving students greater access to advisors and allowing for continuity in the education process. Student services had the honor of receiving a 100% satisfaction rate among students polled by the university.

The Informatics undergraduate program as well as the Health, Chemical and Laboratory Informatics graduate programs continue to be housed in the Walker Plaza building. The computational laboratory and robotics laboratory for the Laboratory Informatics program continues to grow and attract interest from various companies wishing to make donations to the program in terms of software and hardware. We hope that the eventual completion of the Life Sciences building as well as the proximity to the new Clarian facility will attract even more students to this worthwhile program.

Grants and contracts
We continue to attract requests from corporations for various projects, including creating 3D visualizations and video productions. These are wonderful opportunities for faculty members to showcase their work as well as involve students in the learning process. In FY 04/05, twenty-eight grants and contracts were routed, with a total awarded thus far of over $1M (direct plus F&A). The Ruth Lilly Health Education Center subcontract is due to expire in December 2005 but we received notification that a second round of funding for three years would be awarded, beginning in January 2006.

Reallocation Plan

Other Question(s)

Doubling goals. In what ways has and will your responsibility center contribute to the Chancellor’s doubling goals for enrollment (retention and graduation rates and degree conferrals), research and scholarship (grants and contracts), and civic engagement (service learning, internships, community collaborations)?

- Numerous activities have taken place in the recruitment of new students. These are listed on page 1 under "Goals & Objectives a. To recruit students from central Indiana and beyond" of this report.
- Civic engagement continues to be a large focus of the School of Informatics (SOI) since its creation. Informatics students were engaged in internships and projects for 44 non-profit organizations, including WFYI-Teleplex, the Discovery Channel, the Indianapolis Colts, and the Pacers Foundation. The School is working very closely with IUPUI Solution Center in listing internships on its website and placing students in internships. Informatics continues to receive numerous requests for civic engagement projects (many animation and web-based projects) from non-profit and for-profit organizations in which faculty and students are involved. Some of these projects are listed under the School's "Goals and Objectives Civic Engagement."
- Faculty are encouraged to pursue research and grants. Informatics has its own Informatics Research
Diversity. What actions have you taken and what results have you achieved in diversifying your student body (particularly in improving the success rates of minority students) and your faculty and staff?

- In 2004 a summer camp in technology for minority teens was held on campus. Sixteen teens from Pike High School attended. [http://newmedia.iupui.edu/j/49](http://newmedia.iupui.edu/j/49)
- The Informatics Women’s Organization (IWO) is made up of undergraduate students. The IWO holds conferences to recruit women in technology. [http://www.iupui.edu/~itwomen/](http://www.iupui.edu/~itwomen/)
- The IWO was also involved in mentoring young teen minority women at a technology summer camp. [http://informatics.iupui.edu/n/176](http://informatics.iupui.edu/n/176)
- The SOI is an equal opportunity employer of faculty and staff.

Campus coordination and cooperation. Are you willing to work with an adjudicative group in resolving conflicts in course and program offerings in the spirit of reducing campus duplication and overlap? If so, what forum or format would be most helpful to you? Please cite examples of your cooperation with other units in resolving such conflicts.

- The SOI currently has joint faculty agreements with the Schools of Medicine, Nursing, Geography (Liberal Arts), and Computer Science. We are recruiting a joint position for Computer Information Technology.
- A new program in forensics will be offered though the School of Science and informatics is offering two courses planned for fall of 2005.
- The SOI has joint grant and civic engagement projects with other schools at IUPUI.

4) What actions have you taken to promote the retention of all students, and in particular, individuals who would diversify the student body, e.g., ethnic, racial, and gender minorities?

5) What uses are you making of the student technology fee?