2003-2004 Informatics/Media Arts and Science

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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 2003-2004:

- Continued marketing and development of the degrees offered at the undergraduate level in informatics, new media, and health information administration. Revised both the undergraduate and graduate brochures, and redesigned the informatics web site. Kiosks, promotional videos, CDs, and informatics forums for both students and parents were executed.
- Ongoing efforts to engage in civic responsibility the School of Informatics [SOI] developed courses that assisted with the development of projects including community and non-profit organizations.
- SOI provided presentations at the admissions orientation breakfasts, Ivy Tech, regional campuses of the IU system, TechPoint, every high school and academy in Marion County has been visited by student services personnel recruiting and raising awareness of the school.
- For Explore IUPUI there were seven students, 3 staff and 4 faculty volunteers. Lecturer Mary Ellen Reed offered a demo in Photoshop and research associate Beth Lykins offered a demo in Digital Sculpture.
- SOI at the Indiana State Fair 2004, Explore IUPUI, Campus Day, and a visit to informatics from several local area tech groups and high school clubs.
- Attended graduate fairs at DePauw, Earlham, Purdue, Taylor, Hanover, ISU, and all regional IU campuses.
- We continue to recruit undecided students from University College and its learning communities via faculty presentations and informational booths.
- The Informatics Womens Organization initiated and continues to participate in a mentoring program for young women in technology through the Urban League. Hosted award ceremony for the women in the recruitment of
Women in technology through the Bruin League. Hosted award ceremony for the women in the recruitment of minorities.
- Attended recruitment and retention conferences with NACADA and First Year Experience.
- Enhanced web presence with more convenient links for prospective students.
- Held a reunion for inactive students who have been out a full year.
- Presented at 21st Century Scholars recruiting first generation students.
- News articles and display ads recruiting
- Articulation agreements with Ivy Tech and IUPUC.
- Planning a collaborative degree program with Regenstrief Medical Informatics Fellowship Program

The HIA program moved from the School of Allied Health July 2002 (now the School of Rehabilitation and Health Services) HIA Recruitment and Marketing Activities:

- Participation in Health Career Fair during Fall semester at IU Bloomington
- Participation in Health Career Fair at Henry County Memorial Hospital
- Presentations for area high school students and guidance counselors
- Participated in the School of Informatics exhibit at the Indiana State Fair
- Hosted a meeting for advisors from all IU campuses to discuss curriculum and facilitate communications with administration and students interested in the HIA degree
- Participated in Explore IUPUI (had a separate booth from the undergraduate and graduate programs)
- Participated in Explore IUPUC
- Program Director, Danita Forgey appeared on local TV and radio broadcasts
- Billboard advertisement near the state fair grounds during the 2004 Indiana State Fair.
- Advertised in the Sagamore and Indianapolis Woman
- Established the McKenzie/Ashton Endowment Committee. Program Director Danita Forgey and Assistant Dean Mark McCreary met with all committee members to discuss plans for the endowment.

Evidence of Progress for 2003-2004:

The school was awarded $1.4 million in corporate support for the Laboratory Informatics Graduate Program. http://informatics.iupui.edu/i/35 and http://informatics.iupui.edu/i/29

Five Indiana residents were admitted for fall 2004 into Laboratory Informatics Graduate Program and five Indiana residents were admitted to the Human Computer Interaction Graduate Program. These are the two new graduate programs that started in fall 2003. Applications continue to be received from Indiana residents wanting to enter the graduate programs.

The Health Information Administration (HIA) program continues to enjoy national stature. In terms of student success, 100 percent of our graduates who sat for the Registered Health Information Administrator examination passed with score exceeding the national average. Not only did 100% of the 2002-2003 find employment in the HIA profession, but 93% stayed in Indiana for employment. Professor Danita Forgey of the program gave a presentation at the American Health Information Management Associations Assembly on Education, in addition to participating in nation-wide pilot testing of ICD-10-CM and serving as a member of the Educational Strategies Committee for AHIMA, http://informatics.iupui.edu/i/52

A Ph.D. program in Informatics has been approved by the Board of Trustees.
Activities planned for 2004-2005:

1) Expand the curriculum of the Laboratory Informatics Graduate Program to include clinical laboratory informatics. 2) Recruit new faculty in clinical laboratory informatics. 3) Obtain further corporate support for the Laboratory Informatics Graduate Program from the S-Matrix Corporation. 4) Associate dean to be elected to the Board of Directors of the Association for Laboratory Automation. 5) In conjunction with the LIMS Institute, develop and offer a "laboratory informatics summer college" for summer, 2005. 6) Publish article on establishing a research agenda for laboratory informatics. 7) Re-engineer the Zymark P3 robot for research on new robotic programming. 8) Using development programming, transition the Zymark robot from motion-level programming to task-level programming. 9) Fully activate the Beckman Coulter Biomek 2000 robot to perform liquid handling and other tasks involving 96-well plates. 10) Undergraduate student advisors continue to visit area school high schools on a bi-weekly basis to recruit students to the undergraduate programs. 11) A Ph.D. program in Informatics has been approved through the Board of Trustees and next will be submitted to the Commission for Higher Education. Different tracks will be offered for the program. Faculty are currently being recruited for the new Ph.D. program and several students have expressed an interest. A limited number of students will be accepted for fall 2005 since financial support will be offered for this.

☐ 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 2003-2004:

1) The directors of all the graduate programs have personally met with each graduate student to advise and assess their academic progress. 2) Supported the School of Informatics Student Council, which provides a forum for student concerns and issues. 3) Provided ongoing seminars and workshops to encourage extended study within different tracks of the curriculum. 4) The Informatics Women's Organization (IWO) held two workshops targeted to undergraduate students, Informatics research associate Beth Lykins taught on Information Architecture and Dreamweaver. IWOs held its second annual fall conference on November 13, 2004, executive associate dean, Sara Hook discussed academic choices in the School of Informatics, Teresa Bennett, Director of Outreach of the Lilly Solution Center discussed internships and part-time jobs, and Elena Berto, professor from IUB discussed women characters in computer games. The president of IWO, Informatics 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. 4) The Health Informatics program director held a meeting with health informatics graduate students to learn about student participation in the Health Informatics Management Systems Society.

Evidence of Progress for 2003-2004:

Approximately 580 undergraduates and 183 graduate students in Informatics and New Media have met with their advisors for course scheduling and advancement through their programs of study.

Activities planned for 2004-2005:

1) A search committee for a graduate program coordinator/academic specialist is currently underway to develop
4) A search committee for a graduate program coordinator/academic specialist is currently underway to develop graduate student enrollment in the School of Informatics by promoting the school’s graduate programs, increasing awareness of careers in informatics, answering inquiries about program opportunities and requirements, assisting candidates in the application process, advising graduate students on their plans of study, and facilitating graduate student matriculation. This position will also work with students for their thesis and capstone projects. They will participate in recruiting opportunities both on and off campus. 2) The Informatics Women’s Organization supported by the Informatics Student Government continues to hold conferences to help women succeed in the fields of Informatics, Computer Science, and Computer Technology. Through networking, mentoring, and educational programs, they hope to help women break down the gender wall. 3) A student animation festival hosted by Indiana University School of Informatics will be held June 25, 2005 here. VisionFest is unique because all student visionaries submitting work will receive written critiques from the adjudicators. Ideally, this will create a cooperative and collaborative atmosphere that will encourage progress and advance the student’s work. Invited speakers and jurors for VisionFest include Zareh Gorjian, NASA’s Jet Propulsion Laboratory; Kerry Shea, Production Manager, Madagascar; Pacific Data Images; Scott and Georgia Ball, The Animation Closet; and Bob Schreck, Batman Group Editor, D.C. Comics; Dan Casey, Vinton Studios; Rich McKinley, Oddworld; Jay Francis and Eric Radomski, Phuz; artist Matt Wagner; and Ila Abramson, I Spy Recruiting. John Canemaker will be the keynote speaker. John Canemaker is professor and director of the Animation Department at New York University Tisch School of the Arts. A noted historian of the animation industry, Canemaker has written numerous books including Walt Disney’s Nine Old Men and the Art of Animation. He has also directed the documentaries Otto Messmer and Felix the Cat, and Remembering Winsor McCay. His most recent film, The Moon and the Son premiered at the Museum of Modern Art on January 5, 2005.”

c. To retain students throughout all degree programs.

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

Actions taken for 2003-2004:

Developed workshops dealing with resume writing, portfolio development, interviewing skills.
Showcased student work on the web page, in alumni magazine, in the hallways, and publicity materials
[including reminders to students that it is time to register for classes have you made your appointment?]
Provided financial aid in the way of tuition remission as an incentive for students to remain enrolled as economic
times have become a burden to well-deserving students.
Initiated a peer mentoring [one-on-one] for students placed on probation so that they are provided the
opportunity to succeed in subsequent semesters.
Informatics club provided social events to develop a sense of community within the student body of SOI.
Developed three new clubs of interest groups: Informatics Women’s Organization [IWO], New Media Interest
Group, and a Gaming Club.
Opportunities are provided to students to attend professional organizations including SIGGRAPH, and Women
in High Tech.
Courses were and continue to be developed with industry leaders such as Mark Hill, President of Baker Hill;
Ted Woerner and Rob Cheezum of Thomson Consumer Electronics; and Susan Bowers of the Veterans
Affairs all providing opportunity and insight into real-world scenarios.
Internships and projects continue to be a driving force in providing students the chance to develop additional
skills. A new course was added at the end of the sophomore year as a retention measure to provide further
experience of skills learned in the classroom.
Recognize students that have achieved excellence in education and hosting an event with certificates presented in
their honor.
Ongoing success in our learning communities and will be adding another one in the fall of 2005.
Beginning steps in providing online courses, particularly in the area of the health information administration.

[1]
Evidence of Progress for 2003-2004:

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

May 2004
AS 1 BS 36 MS 15 Total 52

June 2004
AS 0 BS 18 MS 2 Total 20

August 2004
AS 0 BS 10 MS 3 Total 13

December 2004
AS 0 BS 17 MS 20 Total 37

Activities planned for 2004-2005:
null

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 2003-2004:

1) Informatics students were engaged in internships and projects for forty-four non-profit organizations, including WFYI-PBS TV, the Discovery Channel, the Indianapolis Colts and the Pacers Foundation. 2) The Deans Advisory Council provided contacts for projects and networking opportunities for students. 3) Updated the SoI and New Media websites to provide job opportunities, internships, and collaborative projects for interactive and multimedia corporations. 4) Extended invitations to multimedia venues for student assistants to work on projects related to the skill sets taught in the classroom. Corporations have repeated invitations for additional students, indicating the good work done by their predecessors. 5) Proctor and Gamble, Eli Lilly and Co., Beckman Coulter, Inc. and AIT Laboratories formally committed to providing internships for Informatics Information products students. 6) Partnered with the HPUU Lilly...
Committed to providing internships for Laboratory Informatics graduate students. 6) Partnered with the IUPUI Lilly Solution for venture money to fund three student internships for students from Herron, Journalism, etc. 7) Work with eRecruiting to post jobs, internships, and student resumés matching services for students. 8) Organizations such as MCEIA, provide resources for our students. 9) Executive associate dean, faculty member and student collaborated for his capstone project with Dr. Jean Pappas Molleston, Pediatric Gastroenterology, IU School of Medicine, to develop a series of interactive modules for teaching nutrition to medical students and pediatrics residents. 10) Two graduate students had summer internships in 2004 with Community Health Network.

Evidence of Progress for 2003-2004:

1) One Laboratory Informatics graduate student has recently been placed in a paid internship in AIT Laboratories, an Indianapolis-based analytical lab. 2) When a student inquires for an internship opportunity, faculty have been responsive to refer those students. Students in turn interview for those internship opportunities. 3) Corporations are asking for repeat students indicating good work by their predecessors. 4) Our school is working with the IUPUI Solution Center in finding undergraduate student internships. 5) Companies are contacting us to post internship opportunities on our websites: http://informatics.iupui.edu/i/77 and http://newmedia.iupui.edu/i/77.

Activities planned for 2004-2005:

1) As the Laboratory Informatics graduate students progress towards their thesis work, some of them will be placed in internships related to their thesis. 2) Student opportunity at Barnes and Thornburg who have requested graphics and animation work for litigation case work. 3) Continue to post job and internship opportunities on web sites and refer interested students to employers.

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

3. 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 2003-2004:**

- Continued to develop the School of Informatics 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.
- Active recruitment underway for new faculty in general Informatics, Clinical Laboratory Informatics, Health Information Administration, and a joint appointment with Computer Information Technology.

**Evidence of Progress for 2003-2004:**
Activities planned for 2004-2005:

b. To identify both established and promising talented and energetic faculty from the state, nation, and world.

**Campus Planning Theme:** Best Practices

**Secondary Goals:**

**Sub Unit:** None

**Time Frame:** Ongoing.

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Actions taken for 2003-2004:

1) Placed announcements of faculty openings
2) Searches currently underway in Informatics to fill faculty positions for Ph.D. program, Clinical Laboratory Informatics, and Health Information Administration.

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Evidence of Progress for 2003-2004:


2) The Informatics Search and Screen Committee reviewed over 71 applications for faculty positions during spring of 2004. Twelve candidates were considered for an interview and six were invited and interviewed and four were offered positions. One assistant professor was hired in the bioinformatics specialized area, one associate professor for the new media area was hired, one associate professor was hired to help start a new program in medical informatics and one professor who was a visiting assistant professor with Informatics/Computer Science moved up to an assistant professor. A joint professor of Geography/Informatics was recruited and jointly screen by Geography and Informatics and then hired as an assistant professor of Geography/Informatics.

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Activities planned for 2004-2005:

1) More faculty opening announcements for openings will be listed for clinical laboratory informatics and general informatics openings will be placed in the Chronicle of Higher Education, Clinical Laboratory News and online with ACM. 2) An online application form is available on the Informatics web site so that faculty may submit their CV directly to the school.

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.

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Actions taken for 2003-2004:

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Sara Hook came from the Faculty Office and joined the School of Informatics full-time in May as Professor and Associate Dean for Academic Affairs and Undergraduate Studies. Significant efforts to date have been developing faculty policies, such as new policies on cash bonuses and teaching loads, helping faculty prepare for promotion and tenure, setting up a system of faculty governance, reviewing faculty roles and helping to plan for future faculty appointments. She represents the School of Informatics on several campus committees related to student recruitment, retention and graduation. In addition, she is developing several online courses and is implementing a series of new courses in the emerging area of legal informatics. Also, several of our faculty members are participating in campus Faculty Learning Communities this year. Dr. Hook joined the School of Informatics May 15, 2004.

New faculty hired this year to accommodate the schools growth:

1) Edgar Huang is a new associate professor of informatics and received his Ph.D. degree in Mass Communication from Indiana University in 1999; M.F.A. in Visual Arts from University of California, San Diego, in 1995; M.L. in Journalism from Peoples University of China in 1988 and B.A. in English from the Institute of International Relations in 1984. Dr. Huang joined the School of Informatics August 1, 2004 to develop the New Media Program, the largest program in the School of Informatics, especially its upcoming Ph.D. program and the exchange program with Taiwan.

2) Pedro Romero is a new assistant professor and received his M.S.E. degree in Chemical and Biochemical Engineering from the University of Pennsylvania, Philadelphia, PA, and his Ph.D. in Computer Science from Washington State University, Pullman, WA. Dr. Romero joined the School of Informatics August 1, 2004, to advance research on machine learning techniques for sequence-based predictions, as well as studies on the systems-biology and evolutionary implications of protein structural characteristics.

3) Jake Chen is an Assistant Professor of Informatics and Computer Science. He has a Ph.D. Computer Science and Engineering, University of Minnesota (2001), M.S., Computer Science and Engineering with supporting minor in Biochemistry, Molecular Biology, and Biophysics, University of Minnesota (1997), B.S., Biochemistry and Molecular Biology, Peking University, China (1995). He has 8 years of bioinformatics and computational biology R&D experience at technical, scientific, and management levels, including 5 years in the biotech/pharmaceutical industry. Dr. Chen joined the School of Informatics in January 1, 2004 as a joint visiting assistant professor and became assistant professor August 1, 2004.

4) Gunther Schadow is received his MD from Humboldt University, Berlin, Germany and his PhD in Medical Informatics from Free University Berlin, Germany. In 1998, he joined the Regenstrief Institute and Indiana University School of Medicine as a Visiting Associate Scientist and since 2000 as Medical Information Scientist. Dr. Schadow joined the School of Informatics November 1, 2004 to develop a medical informatics program.

5) Ikuho Yamada was hired as a joint Assistant Professor with Geography/Informatics. She has a PhD, Geography, University at Buffalo, The State University of New York (2004), ME, Urban Engineering, University of Tokyo, Japan (1999), BE, Urban Engineering, University of Tokyo, Japan (1997). Dr. Yamada joined the School of Liberal Arts and the School of Informatics August 1, 2004.

**Evidence of Progress for 2003-2004:**

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

**Activities planned for 2004-2005:**
Search and Screen Committees have been formed and ads placed in the Chronicle of Higher Education, on the schools website and in various journals to recruit the following positions as follows:

(1) We intend to round out the new Laboratory Informatics Program by adding clinical laboratory informatics to the curriculum with a newly created tenure-track faculty position. The person would have extensive clinical laboratory experience with emphasis in LIS and other clinical information systems. An earned doctorate in clinical chemistry or a related science is required. This is a 10-month appointment beginning August 1, 2005.

(2) Two general informatics tenure-track faculty, but one with expertise in project management. The primary responsibility for both faculty positions will be to teach courses. These persons will engage in an active research program and involved in curriculum development and student advising and mentoring. An earned doctorate in informatics, information technology or a related field is required. These are 10-month appointments beginning August 1, 2005.

(3) A clinical assistant professor for Health Information Administration program. This position would have extensive experience with electronic health records and database management, including data warehousing and data mining. Extensive experience with healthcare privacy and security (HIPAA) and licensure and accreditation organizations. This person will also develop courses to be taught through distributed education. The candidate will have a masters degree or a Ph.D. and a RHIA certification and at least 3 years management experience in Health Information Administration. This is a 12-month appointment beginning July 1, 2005.

(4) A tenure-track dual appointment as an assistant professor with the Department of Computer and Information Technology (CIT), located in the Purdue School of Engineering and Technology, and the Indiana University School of Informatics. The primary responsibility will be to teach undergraduate courses for both CIT and the School of Informatics. This position will also be expected to engage in scholarly activities and curriculum development. The candidate will have a Ph.D. This is a 10-month appointment beginning August 1, 2005.

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 2003-2004:

1) Dr. Mathew Palakal, Director of the Informatics Research Institute (IRI) at IUPUI, traveled to Macedonia with Clinical Assistant Professor Susan Tennant and Research Associate Skip Comer as part of an International Development Fund grant. The trio worked with colleagues from the Southeast European University and the Museum of Macedonia to lay groundwork toward the creation of a Virtual Museum of Macedonia.

2) An Optix, three dimensional scanning camera was purchased for use in digitally scanning priceless cultural artifacts on the Macedonia trip.

3) With support from the IRI, faculty submitted ten proposals, seeking funds in excess of $1.5 million. Dr. Palakal provided proposal planning guidance and facilitated collaborations. Jeff Hostetler provided budget, administrative and editorial support.
Evidence of Progress for 2003-2004:

Eight of the ten proposals submitted over the past year involved synergistic collaboration with participants from related fields; three from other campus units, three from the Indianapolis area, one interstate and one international.

Activities planned for 2004-2005:

1) Application of the Optix scanner in collaboration with the Indiana State Museum and the Indianapolis Museum of Art.
2) To seek opportunities for intercampus collaborations with the Bloomington Informatics Research Institute, thus capitalizing on strengths native to each.
3) To admit the first students to the IRI Academy, providing a unique research internship to undergraduates.

☑ 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 2003-2004:

- Faculty 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 Gunther Schadows 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 McDonalds 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 Gunthers new appt with us.

Evidence of Progress for 2003-2004:

Faculty continue to receive funding of grant submission proposals. Continue to seek copyright and patent agreements for faculty projects/inventions.

Activities planned for 2004-2005:
• Continue to encourage faculty to write grants and look for opportunities for research.
• Faculty Jake Chen is working on a NIH grant and several other faculty are looking for research opportunities.
• Continue to meet with the Indiana University Research & Technology Corporation (IURTC) for patents and copyright issues for projects that come from grant research such as the Ruth Lilly Health Education Centers project --- Robert Skip Comer, visiting research associate of the New Media Program. Comer and Tom Gospel, a former colleague at Thomson, 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. United States Patent, 6,753,928, Gospel, T.E., & Comer, R.S., 06/22/04, Method and apparatus for providing feedback during programming of a television apparatus.

Abstract:

A television apparatus and method provides visual/audio feedback to a user via the auxiliary image (i.e., PIP window) simultaneously during the menu selection process for configuring the television system. The apparatus enables a user to verify the connection between an auxiliary video/audio source device (e.g., DVD player, satellite receiver, VCR etc.) and a desired input source of the television receiver during the configuration process of the television system. The television apparatus includes a television receiver suitable for generating video output signals for displaying a multi-image on a display device. The multi-image displays comprise a main image corresponding to the currently tuned/selected input signal and an on-screen display ("OSD") of a configuration menu. The multi-images comprise the main image, the configuration menu and an auxiliary image, such as picture-in-picture (PIP) and picture-outside-picture (POP) displays.

☑ 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 2003-2004:

Hardware:

-- Purchased 235 new computers for 7 new computer labs in IT

(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 computers labs and four conference rooms.
-- Purchased additional video and sound equipment for use in the Student Equipment Checkout pool.

-- Anticipate needing to complete construction of room IT 360/360A

-- Anticipate needing to install complete audio and video editing suite of hardware in the Audio Production room (room 360/360a) in ICTC 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), 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).

Evidence of Progress for 2003-2004:

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 2004-2005:

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

-- We increased our license counts for above listed applications due to large increase in the numbers of computers we are maintaining.

☑ d. 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 2003-2004:

1) The Director of Laboratory Informatics Graduate Program has met with officials of over two dozen corporations to obtain support in products, training and internships. 2) Professor Perumal organized the Indianapolis Bioinformatic Interests Group (IBIG) to host monthly meetings of faculty from the Schools of Informatics, Medicine, and Science, and scientists from ECE, Eli Lilly & Co., and Dow AgroSciences interested in bioinformatics to foster collaborative research activities in bioinformatics. 3) The graduate programs continued to sponsor students as teaching assistants and research assistants. Graduate students are also sponsored by faculty members in the Schools of Medicine, Engineering and Technology and Computer Science. 4) The MDL Corporation awarded a $15,000 fellowship for the second year to an international chemical informatics graduate student. 5) Professor Josette Jones in health informatics has an international graduate student working as an RA on a grant project from the School of Mechanical Engineering. 6) A health informatics student is starting as a RA with Dr. Steven Downs in developing a clinical decision support system for
Evidence of Progress for 2003-2004:

1) The school was awarded $1.4 million in corporate support for the Laboratory Informatics Graduate Program. 2) Other schools on campus continue to support research assistants from the bioinformatics program. 3) The MDL company has sponsored a student fellowship now two years for a total of $30,000. 4) AIT Laboratories has made a commitment of approximately $10,000/yr for an internship in Laboratory Informatics.

Activities planned for 2004-2005:

1) The School of Informatics is currently negotiating with Spotfire to obtain a 20-user license of its data mining software for use in the Laboratory Informatics Graduate Program. 2) Will continue to host IBIG meetings organized by Dr. Perumal for bioinformatics research. 3) Dr. Perumal plans to write a grant for student training fellowships with Dr. Todd Skaar from the Division of Clinical Pharmacology and a NSF research grant with Drs. Bob Hickey and Linda Malkas in the Division of Hematology/Oncology. In this grant, there will be a proposal for 1-2 graduate student fellowships. 4) Professor Faiola, Director of the new HCI Graduate Program, will be working with four of his graduate students on a research project related to HCI and Information Visualization. Results of this project were presented in London in June, 2004.

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 2003-2004:

- Established the Health Informatics Program Advisory Board of industry leaders for the Health Informatics Graduate Program, February 12, 2004. There are currently 25 members.
- Science Informatics Advisory Board which serves the science informatics graduate programs on both campuses; its membership was finalized in November of 2004.
- A faculty member and staff person attended the IUPUI booth at TechPoint which is targeted to business leaders.
- In establishing ties with Indiana business leaders for the new Laboratory Informatics Graduate Program, the associate dean met with the following companies: LabWare, Inc., National Instruments, Inc., PerkinElmer Corp.
S-Matrix Corp., Roche Diagnostics, Inc., Kinematic, Inc. and AIT Laboratories.

- Informatics webmaster and faculty developed a part of the website to promote the Laboratory Graduate Program for the Laboratory Informatics Expo 2003 online conference and exhibition held online on November 5, 2003 at: http://www.unisfair.com/demos/lexpo/lexpo.html#Scene_1.

Evidence of Progress for 2003-2004:

1) All events and activities itemized above.

Activities planned for 2004-2005:

- Approximately 450 attended the dedication ceremony on October 13, 2004 and this included legislation and business leaders. Tours followed that event. As part of the dedication ceremony, "The Cell- A Virtual Tour" which is an educational interactive multimedia CD-ROM of a 3D virtual tour of a cell designed to show non-scientific persons the basic functions of a typical cell was shown. This was a project done by Informatics Research Associate Albert William as a New Media Graduate student. Also Research Associate Beth Lykins designed the 3D glasses distributed to the audience. Approximately 100 people have toured the facility. There has been quite a lot of publicity in the Star/News regarding the new IT building.
- TechPoint meetings being held on Tuesdays in the IT building. The executive associate dean spoke at the December 14, 2004 which had 40 business leaders attending in the community.

☑ b. To identify and enhance fundraising and development opportunities.

Campus Planning Theme: Civic Engagement

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

Actions taken for 2003-2004:

- Currently, our fundraising has mostly been internal through the Capital Campaign which is through the Indiana University Foundation and there are several funds that staff and faculty donate to for student scholarships, the new building and then a general fund. On February 7, 2005, our undergraduate student advisor passed away and a new media student scholarship was renamed in his memory, "The David M. Ratts New Media Scholarship." Cards were distributed at his funeral and a news announcement were placed on the websites http://www.informatics.iupui.edu/ and http://newmedia.iupui.edu/n/235 A letter will be mailed out soon regarding this scholarship.
- A new brochure for the Health Information Administration (HIA) was created and has been mailed to HIA alumni, advisory council members, endowed committee members, and special requests that were made from Danita Forgey, who is the director of the program (this brochure is attached).
- The executive associate dean has visited some vendors for financial support with the marketing director of the Bloomington Informatics campus. A promotion flyer was printed to hand out for donations for the Informatics buildings.
- The associate dean for laboratory informatics has received several in-kind donations for the start-up of the new Laboratory Informatics Program.
Evidence of Progress for 2003-2004:

New advisory boards continue to be created for the school and awareness for the School of Informatics is growing.

Activities planned for 2004-2005:

We need a staff person with public relation and marketing experience to help locally on campus for fundraising donors for the school. We have new advisory boards that have been created and hope to find some sponsorship for events through these boards.

☐ c. To provide ongoing internship opportunities.

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

Actions taken for 2003-2004:

1) Informatics students were engaged in internships and projects for forty-four non-profit organizations, including WFYI-PBS TV, the Discovery Channel, the Indianapolis Colts, and the Pacers Foundation. 2) The Deans Advisory Council provided contacts for projects and networking opportunities for students. 3) Updated the SoI and New Media websites to provide job opportunities, internships, and collaborative projects for interactive and multimedia corporations. 4) Extended invitations to multimedia venues for student assistants to work on projects related to the skill sets taught in the classroom. Corporations have repeated invitations for additional students, indicating the good work done by their predecessors. 5) Proctor and Gamble, Eli Lilly and Co., Beckman Coulter, Inc. and AIT Laboratories formally committed to providing internships for Laboratory Informatics graduate students. 6) Partnered with the IUPUI Lilly Solution for venture money to fund three student internships for students from Herron, journalism, etc. 7) Work with eRecruiting to post jobs, internships, and student resumes matching services for students. 8) Organizations such as MCEIA, provide resources for our students.

Evidence of Progress for 2003-2004:

1) One Laboratory Informatics graduate student has recently been placed in a paid internship in AIT Laboratories, an Indianapolis-based analytical lab. 2) When a student inquires for an internship opportunity, faculty have been responsive to refer those students. Students in turn interview for those internship opportunities. 3) Corporations are asking for repeat students indicating good work by their predecessors.

Activities planned for 2004-2005:

1) As the Laboratory Informatics graduate students progress towards their thesis work, some of them will be placed in internships related to their theses. 2) Student opportunity at Barnes and Thornburg who have requested graphics and animation work for litigation case work. 3) Continue to post job and internship opportunities on web sites and refer interested students to employers.
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 2003-2004:

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Evidence of Progress for 2003-2004:

1) Timeline, strategy and initial activities were identified. The Dean’s Council will meet twice this year to carry this forward.

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Activities planned for 2004-2005:

1) Will continue the efforts of the working committees of Deans Advisory Council to develop lines of communication and establish new contacts in the Indiana state government.

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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.

Actions taken for 2003-2004:

Informatics students were engaged in internships and projects for forty-four non-profit organizations, including WFYI-PBS TV, the Discovery Channel, the Indianapolis Colts, and the Pacers Foundation.

Professor Joseph M. Defazio won the Presidents Award from the Board of Trustees of The Renal Network, Inc., which covers Illinois, Indiana, Ohio and Kentucky, for his work on *The Uninvited Guest*, an animation video for patients who suffer with end-stage renal disease. The video was unveiled at the annual Nephrology Conference Awards Banquet along with the presentation of the award [http://www.therenalnetwork.org](http://www.therenalnetwork.org).

Dr. Darrell L. Bailey, Executive Associate Dean, and Robert S. (Skip) Comer, Research Associate, participated in Operation Walk. They traveled to document a humanitarian team of physicians doing hip and knee replacement surgeries in Guatemala in March 2004 with still photography. This included the creation of a web site at [http://www.operationwalk.org](http://www.operationwalk.org), which was developed by Skip, Professor Susan Tennant and graduate student Brian Miller.

Professor Susan Tennant has been appointed Executive Director of the Virtual Heritage Network (VHN), an international organization designed to promote the utilization of technology for the education, interpretation, conservation and preservation of natural, cultural and world heritage. [http://www.virtualheritage.net/](http://www.virtualheritage.net/)
The New Media Program is leading a large-scale project sponsored by the Indiana Pacers to redesign the displays of historic memorabilia and graphics in Conseco Fieldhouse and will collaborate with IUPUI's Herron School of Art in this $200,000 effort. Professor Steve Mannheimer will direct a multi-disciplinary project team of faculty and students.

The New Media Program, under the direction of Professor John B. Ludwick, produced a 30-second commercial for the Pacers Foundation that will be used during Fever games and later during the Pacers season.

A visual display was provided at the Indianapolis Museum of Art for a special Second Century Society hardhat tour and reception on November 19, 2004 of the "Digital Museum Experience," a pilot project between the IRI and the IMA. The display explained that project will be an application that runs on a hand held--PDA device. The pilot targets one gallery, the American Galleries. The PDA offers visitors, a deeper, multi dimensional understanding about the Art objects. The program threads audio and visual media with engaging content through user interactions.

Evidence of Progress for 2003-2004:

The School of Informatics continues to receive many requests for web-based type or computer animation projects that involve faculty and student collaboration.

Activities planned for 2004-2005:

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 2003-2004:

The School of Informatics hosted a New Media Tech Camp in June 2004 with 16 minority students from Pike High School participating.

New Media/Informatics undergraduate students of the Informatics Women's Organization continue to participate in a mentoring program for young minority women (junior high ages 12-16) in technology through the Indianapolis Urban League.

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 the National Association of Health Care Centers (NAHEC) Conference in Philadelphia in 2003 as well as at the Internet 2 Conference with a reception at the Ruth Lilly Health Education Center on October 27, 2004. As part of the reception, Albert William, Visiting Research Associate, demonstrated a 3-D version of his cell animation using Vis-Box, provided by Dr. Polly Bakers Pervasive Computing Laboratory. The project demo also featured the RFID computer interface developed by Mary Pietrowitz from Dr. Bakers laboratory, as well as the special communications protocol developed for the project, which allows a variety of devices, such as audience response...
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 preschedule-adult in health education.

Evidence of Progress for 2003-2004:

1) $1.2 million awarded to Dean Darrell Bailey for the Ruth Lilly Health Education Project.

Activities planned for 2004-2005:

1) Continue work on the Ruth Lilly Health Education Project.

2) Continue to work with K-12 populations.

c. To work with diverse populations in the community.

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

Actions taken for 2003-2004:

The School of Informatics hosted a New Media Tech Camp in June 2004 with 16 minority students from Pike High School participating.

New Media/Informatics undergraduate students of the Informatics Womens Organization continue to participate in a mentoring program for young minority women (junior high ages 12-16) in technology through the Indianapolis Urban League.

Evidence of Progress for 2003-2004:

1) Activities as specified above.

Activities planned for 2004-2005:

Continue to work with the Indianapolis Urban League.

Fiscal Health

*** Fiscal health report for 2004-05 is attached as PDF file. ***

Reallocation Plan
The School did not request funds from campus reallocation to support an initiative. However, joint appointment monies received by other schools from the campus reallocation fund will be supported by the School of Informatics. Our funding has been through state appropriation and student fees.

Other Question(s)

How do you plan to maintain/increase quality in the face of diminishing resources? What processes do you have in place to do this, for example, how are faculty involved in decision-making?

How do you cultivate a climate for diversity -- how do you recruit, develop, and retain diverse students, faculty, and staff? How do you incorporate diversity in the curriculum, in research, in civic engagement?

Five years from now what proportion of your faculty do you expect to be in the following categories: tenure track faculty, clinical faculty, research faculty, lecturers, or other academic specialties (percentages should total 100%)?

Please prepare an EXECUTIVE SUMMARY of no more than one page summarizing your most significant accomplishments of the past year (including items from the period from July 1, 2003 to the present) and the major initiatives you plan to undertake in 2004-05.