

BOARD OF CURATORS APPROVES IT VENDOR PARTNERSHIP



The Cerner-IDX project vigorously continues implementation. In December 1996, Cerner Corporation, located in Kansas City, and IDX Corporation, located in Burlington, VT, were approved by the Board of Curators to accomplish the integration of clinical and administrative processes and data for HSC. The total cost of the project will be \$14 million and will be funded by the Information Services capital account.

Cerner and IDX meet the criteria needed to accomplish integration because:

- They share a common vision with HSC in terms of technology and cost effectiveness;
- Both have highly integrated solutions that span in-patient, out-patient and other service delivery sites;
- They recognize the need to foster strong partnerships with academic medical entities to effect a plan that will handle the current and future demands of the health care industry.

There are other benefits in using the Cerner/IDX vendor partnership. First, HSC may purchase existing software at excellent discount rates. Second, HSC and the vendors will approach development of additional systems with a specific agreement for each of the products. Third, to seek benefits of the system, a joint study will be conducted.

Mike Frankenberger, Chief Information Officer for the University Hospitals and Clinics, reports that each of the Cerner/IDX project managers have profiled all projects and maintenance activities. University Physicians is currently setting up IDX for numerous tasks, most notably billing, accounts receivable and registration. Clinic Administration approaches the ability to generate automatic patient appointment reminder cards at patient check-out time.

Watch upcoming issues of **InfoSphere** for the latest information, "bit by bit," on the Cerner/IDX project.

MIAIMS EXTERNAL ADVISORY BOARD VISITS



A team of information technology and IAIMS experts comprises the MIAIMS External Advisory Board that made its first visit to the project in December. The members are:

- J. Robert Beck, MD; Vice President for IT, Baylor College of Medicine;
- Sam Schultz, PhD; VP and CIO of IS, University Hospital Consortium, Chicago, IL;
- W. Ed Hammond, PhD; Professor of Informatics and President of the American College of Medical Informatics; Duke University;
- Judith Ozbolt, RN, PhD; Professor of Nursing Informatics and Director of the Division of Patient Care Services; University of Virginia;
- Wayne Peay, MLS; Director, Eccles Health Sciences Library, University of Utah.

The External Advisory Board met with MIAIMS project leaders and committee members. Their observations and recommendations were made to the MIAIMS Policy Committee. The Board gave the MIAIMS project overall a very high score for its first year of implementation. The Board noted that the new organizational structure with Joyce Mitchell (Principal Investigator) as Associate Dean for Integrated Technology Services was a step in the right direction. The Advisory Board supported the concept of a department of medical informatics as a proper direction for MU. The Board thought the institutional strategy for departmental strengthening and extramural research support could be helped by the IAIMS project. The Board stressed seizing the opportunity to standardize data, identifiers and vocabulary before the implementation of the new clinical and financial systems (Cerner/IDX).

The Board members recommended a strategic planning retreat to define goals for the electronic health care record efforts. They suggested nursing insights on health promotion and disease management be incorporated into the strategy. They stressed a common development of practical systems.

Network management and security need to be made a top priority by campus leadership and IAIMS needs to take the lead. The Health Sciences Library should see IAIMS as a tremendous opportunity to take a leading educational role and to extend the IAIMS philosophy throughout MU. The Board also suggested that priorities for research programs at MU be identified. IAIMS can provide technical leadership for high performance computing projects and facilitate molecular biology and genomics support.



NEW STAFF

Karen Apple

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Project Development Specialist,
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National Information Infrastructure
Project

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tions, Hospitals and Clinics

Michael Owens

Manager, Mt. Vernon Rehabilitation
Center IS



ICONOGRAPHY

To help our readers identify those articles of interest to them, we have identified the topic of each article with one or more icons.



Electronic Health Care Record



Information Access



Infrastructure



Organizational Structure

EDITORIAL STAFF

Linda Cooperstock: Coordinator, MIAIMS
Alan Arnold: LAN Manager, Internal Medicine
Karen Apple, Senior Information Specialist,
MIAIMS

Rebecca S. Graves: Information Services
Librarian, J. Otto Lottes Health Sciences
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Melanie Johnson-Moxley: Information
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Lamar Henderson: Information Specialist,
MIAIMS

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InfoSphere is available on the World Wide Web at <http://www.hsc.missouri.edu/infosphere/docs/infosphere.html>.

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WELCOME TO THE NEW INFOSPHERE

Coinciding with the big changes resulting from the formation of Integrated Technology Services, **InfoSphere** has a new look, a new focus and a new frequency. Beginning with this issue, **InfoSphere** will now be a four-page monthly newsletter featuring news and information about the many aspects of technology within the MU Health Sciences Community.

We have identified four subject areas into which a majority of information in **InfoSphere** will fall: the Electronic Health Care Record, Information Access, Infrastructure and Organizational Structure.



The **Electronic Health Care Record** project is one of the major foci of ITS, a system in which authorized health care providers can have access to patients' health care records from any workstation anywhere in the HSC.



Information Access refers to any news concerning software and technology that affects the ability of users to have better access to and better use of whatever information they need to do their jobs.



Infrastructure articles will keep you updated on improvements and changes to the HSC's network environment as ITS works hard toward the goal of making network services 100 percent reliable 24 hours a day, seven days a week.



Organizational Structure stories detail the changes and additions as ITS finalizes its organization and adds new personnel to meet the demands of our mission.

Each subject area is identified by the icons illustrated above and summarized each issue in the indicia on page two. This will allow you to identify at a glance the subject of each item in **InfoSphere**.

Some of our best sources of information, however, are you, our readers. If you have some information you think the rest of ITS should know, contact Lamar Henderson by e-mail (lamar_a._henderson@muccmail.missouri.edu), telephone (882-7974) or land mail (626 Lewis Hall).

ITEMS FROM THE ITS MANAGEMENT GROUP



Mike Robertson is systematically meeting with departments to assess support needs and create a plan to provide services.

Mike Frankenberger reports that we are on schedule with the implementation project to replace the obsolete systems at the University Hospital, Ellis Hischel and some Medical School departments for dictation and transcription of clinical documents. A new digital dictation system that does not use tapes was implemented in October 1995, and a local-area-network-based transcription and word-processing system was put in place early in 1996. The departments/units that create clinical documents were added systematically. Meetings are underway to finalize the design of the Oracle database "Doctor Master" that maintains physician identification information and how it will interface with the transcription system.

Biff Barner announced a plan to remove all the Wellfleet routers from the hospital environment and to replace them with the newer, faster Xylan switching technology. He plans a 4-day push to maximize the speed of the changeover rather than making the change in small steps that would prolong the "pain."

David Witten II reports that a working digital signature prototype has been constructed to sign or verify any type of text or image document with a high degree of security. This work will be demonstrated to the groups working on STAR as an avenue to pursue for patient care documents.

February–March 1997
631 Lewis Hall

February 4

Santosh Krishna, EdS
Informatics Fellow, ITS
On-Job Performance Improvement: Health Care Quality Improvement Workstation on the World Wide Web

February 11

Arthur E. Rikli, MD
Professor Emeritus
Regional Medical Programs

February 18

Lynn E. Diel
Assistant Administrator,
UP Data Processing
UP Data Processing

February 25

Craig Klimczak, DVM
Clinical Assistant Professor,
Health Services Management
Michael Ruiz
Senior Programmer Analyst, IS
*The EHCR Development Group
and the STAR Project*

March 4

Jesse W. Bowen, PhD
Informatics Fellow, ITS
*Maintaining Security and
Confidentiality of Electronic Health
Information*

March 11

Spring Break

March 18

Abe Rastkar
Senior Programmer Analyst, IS
*Medical Information Communication
Protocols: HL7 and Beyond*

March 25

Mauricio A. León, MD
Informatics Fellow, ITS
*Delivery of Laboratory Data with
World Wide Web Technology*

NOTES

FROM THE J. OTTO LOTTES HEALTH SCIENCES LIBRARY

NEW DATABASE ON THE BLOCK

If you have had the luxury of scrolling through the list of OVID databases, a new name may have caught your eye. If not, this may be of interest to you, especially if your work is concerned with administration or the effectiveness of procedures and services.

HealthSTAR (Health Services Technology, Administration, and Research) was launched in May 1996. A cooperative venture between the National Library of Medicine (NLM) and the American Hospital Association, HealthSTAR is a combination of two former NLM databases, HEALTH (Health Planning and Administration) and HSTAR (Health Services/Technology Assessment Research). It covers from 1975 to the present, and contains citations from journal articles, monographs, technical reports, meeting abstracts and papers, book chapters, government documents and newspaper articles.

What Does this Mean for You?

Both the clinical and the non-clinical aspects of health care delivery are covered in one database. That is, you can search for evaluation of patient outcomes, effectiveness of procedures, programs, products, services, and processes as well as health care administration, economics, planning, and policy. For example, a search on "critical pathways" in MEDLINE 92-96 would result in 110 citations. The same search for the same years in HealthSTAR results in 261 citations, 170 of which are nonMEDLINE. If one stops to do the math, both databases should be used for a comprehensive search; however, if time is pressing, HealthSTAR may be the more appropriate database, especially from an administrative point of view.

Note that if you search MEDLINE first and then switch databases to HealthSTAR, there is the "nonMEDLINE" limit command which allows you to separate out any duplicate citations.

Speaking of Critical Pathways . . .

As of 1996, CINAHL has begun including pdf image files (portable document format) for some of the critical paths which they have indexed. These are images of the actual forms used; and, they can be printed. For easy access, these have been placed on a Web page:
<http://www.hsc.missouri.edu/library/docs/restrict/cpaths.html>. They can also be accessed from the Alphabetical List of Health Related Internet Resources on the Health Sciences Center's home page or from the Nursing Subject List.

Note that you must have Adobe Acrobat installed and configured on your machine in order to for your Web browser to view and print these image files.

Should you have any questions or comments on the above, give us a call at 882-6141 or drop us a note at hsrefer@mizzou1.missouri.edu.

For More Information . . .

For more information, call Health Sciences Library Information Services at **882-6141**, e-mail us at hsrefer@mizzou1.missouri.edu or access the Library's website at <http://www.hsc.missouri.edu/library>.

Ask an Information Question
Request an Expert Search
Register for an OVID Class

Request an Interlibrary Loan
Search MERLIN and OVID Databases
Register for HSLNET

All these services are available from our website:
<http://www.hsc.missouri.edu/library>

**MEDLINE /
CINAHL /
PSYCINFO
WORKSHOP
SCHEDULE**

January–March 1997

January

1/14 Tuesday 10:00-11:30
MEDLINE Graves
1/16 Thursday 3:30-5:00
CINAHL Edwards
1/30 Thursday 10:00-11:30
PsycINFO Jacobs

February

2/10 Monday 3:30-5:00
MEDLINE Edwards
2/19 Wednesday 10:00-11:30
CINAHL Jacobs
2/25 Tuesday 10:00-11:30
PsycINFO Graves

March

3/4 Tuesday 10:00-11:30
MEDLINE Johnson
3/11 Tuesday 10:00-11:30
CINAHL Jacobs
3/19 Wednesday 3:30-5:00
PsycINFO Graves

You can search journal literature on the OVID system using Windows or DOS. These workshops focus on Windows; you may request DOS instructions. Enrollment is limited to eight each. Special dates available. Call **882-6141** or go to <http://www.hsc.missouri.edu/library/docs/wsreg.html> to register or for more information.

POSITIONS OPEN WITH ITS



There are a number of positions open within Integrated Technology Services. If you would like more information about any of the positions listed below, contact the University Human Resources (HR) office at 130 Heinkel Building, 201 S. Seventh St., (573) 882-7976 or the University Hospital and Clinics Human Resources (UHC) office at 1 West 42D, University Hospital and Clinics, (573) 882-4997.

Computer Programmer/Analyst II	Hospital Information Services	UHC * 38872
Computer Programmer/Analyst II	Hospital Information Services	UHC * 40245
Computer Programmer/Analyst II	NII Rural Telemedicine Project	HR * zc39724
Computer Programmer/Analyst II	MIAIMS Project	HR * zc39965
Computer Programmer/Analyst II	University Physicians Data Processing	UHC * 40504
Computer Project Manager	Hospital Information Services	UHC * 38437
Manager, Admin./Financial Applications	Hospital Information Services	UHC * 39761
Manager, Clinical Application Services	Hospital Information Services	UHC * 37009
Microcomputer Specialist	Hospital Information Services	UHC * 40192
(Note: PT/Temp)		
Microcomputer Support Specialist	Hospital Information Services	UHC * 40228
Network Support Specialist I	NII Rural Telemedicine Project	HR * zc39889
Office Support III	Medical Informatics Group	HR * zc40455
Principal Programmer Analyst	Hospital Information Services	UHC * 40633
Sr. Computer Programmer/Analyst	Hospital Information Services	UHC * 37681
Sr. Computer Programmer/Analyst	Hospital Information Services	UHC * 39826
Sr. Computer Programmer/Analyst	NII Rural Telemedicine Project	HR * zc39883
Sr. Computer Programmer/Analyst	Hospital Information Services	UHC (Internal)
Senior Research Scientist	Medical Informatics Group	HR * zc40698



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