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# INFOFAIR '97

## *INTERNET STRATEGIES for Health Data and Education*

THURSDAY, APRIL 24, 1997

presented by  
The University of Utah  
Spencer S. Eccles Health Sciences Library

sponsored by  
THE UNIVERSITY OF UTAH  
HEALTH SCIENCES CENTER

**INFOFAIR** is an annual event at the University of Utah Health Sciences Center with the goal of providing up-to-date information on computer applications, resources and services as well as a glimpse into the future of computers and computing in the health sciences.

The theme of InfoFair '97 is: **Internet Strategies for Health Data and Education**. Paul D. Clayton, Ph.D., Professor and Chair, Department of Medical Informatics, Columbia University will present The Clifford C. Snyder and Mary Snyder Lecture on the morning of InfoFair '97. Dr. Clayton's presentation titled: "Confidentiality of Patient Data in the Age of the Internet" will explore the issues of maintaining privacy, confidentiality and security of electronic medical records in today's networked environment. The "Meet the Experts Panel Discussion" will feature panelists who will join Dr. Clayton in discussing the broader issues of privacy, confidentiality and security for all types of data (educational, research, financial, personal) and will answer your questions on where we are today at the University of Utah and where we want to be in the future.

The afternoon presentations at InfoFair '97 offer two possible tracks to pursue: The Health Data Track or The Education Track. In the Health Data Track, find out about the Utah Health Information Network, the Utah Hospital Discharge Database and expert systems based on clinical data. Creating and using Web-based course materials in support of health sciences education will be the focus of the Education Track.

There is NO EXHIBIT AREA this year. InfoFair '97 exhibits are reachable via the InfoFair '97 Web site: <http://www-medlib.med.utah.edu/infofair/> with links to vendors of hardware, software and databases, and to University of Utah services and applications.

## **INFOFAIR '97 COORDINATOR**

## **THE CLIFFORD C. SNYDER, M.D. AND MARY SNYDER LECTURER**

## **THE CLIFFORD C. SNYDER, M.D. AND MARY SNYDER LECTURE ABSTRACT**

**JOAN M. GREGORY** *Associate Librarian, Technical Services, Spencer S. Eccles Health Sciences Library, University of Utah* Joan M. Gregory received her Masters of Library Science from the University of Rhode Island in 1976 and is a Distinguished Member of the Academy of Health Information Professionals. Joan has coordinated InfoFair since 1988, manages the Library's integrated library system and technical services area and is currently working with all the academic libraries in Utah to implement the Ameritech Horizon integrated library system.

**PAUL D. CLAYTON, Ph.D.** *Professor and Chair, Department of Medical Informatics, Columbia University; Director, Clinical Information Systems, Presbyterian Hospital; and Director, New York State Center for Advanced Technology at Columbia.* Paul D. Clayton, a native of Salt Lake City, received his Ph.D. in physics from the University of Arizona in 1973. He then developed and implemented information systems in cardiology, radiology and surgery at LDS Hospital and the University of Utah. He joined Columbia in 1987 as director of the Center for Medical Informatics and professor of medical informatics. He became chairman of the newly created Department of Medical Informatics in 1994. When Dr. Clayton joined Columbia, he led efforts to build an integrated information system for the medical center, an effort supported by an Integrated Academic Information Management System (IAIMS) grant from the National Library of Medicine. He was also active in creating an advanced clinical information system with decision-making capability now widely used at Columbia-Presbyterian Medical Center. Dr. Clayton is an elected fellow of the American College of Medical Informatics and the Institute of Medicine. Dr. Clayton chairs a National Research Council committee addressing issues of confidentiality of health records on the National Information Infrastructure. He was on the board of directors of the American Medical Informatics Association from 1993 to 1995 and is now president-elect.

### **CONFIDENTIALITY OF PATIENT DATA IN THE AGE OF THE INTERNET**

Is it possible to maintain confidentiality and security of electronic medical records in the Age of the Internet? To answer this question we must define privacy, confidentiality and security of information. We must develop technical means to: identify and authenticate potential users, limit access to authorized users, transport data over public networks, guarantee data integrity and prevent repudiation. However, the most challenging aspects of the problem concern policy at the local, national and global level. Fair information practice dictates that a patient know how clinical data will be used and stored, that the custodian will protect the data appropriately, and that there will be a means of redress. However, authorized users of data desire access for a variety of legitimate reasons. Policy is necessary to determine the trade-offs between absolute security and practical means of access.

A recent scenario published by the Computer Science and Telecommunication Board of the National Research Council illustrates how widely a patient's data can be disseminated and examines the potential damages which might occur. The report surveys current practices and recommends technical and policy measures which should be considered as part of regulations which were recently mandated.

# INFOFAIR PRESENTERS AND PANELISTS

**RICK ASH, Ph.D.**, *Associate Professor, Department of Neurobiology and Anatomy, University of Utah*

**JAMES BAGGOTT, Ph.D.**, *Associate Professor, Department of Biochemistry, Allegheny University of the Health Sciences*

**DONALD BLUMENTHAL, Ph.D.**, *Associate Professor, Department of Pharmacology and Toxicology, University of Utah*

**SHARON E. DENNIS**, *Associate Librarian, Computer & Media Services, Spencer S. Eccles Health Sciences Library, University of Utah*

**REED M. GARDNER, Ph.D.**, *Professor and Chair, Department of Medical Informatics, University of Utah, and Co-Director, Medical Informatics, LDS Hospital*

**BRYAN L. HARMAN**, *Utah 2000 Security Analyst, Administrative Computing Services, University of Utah*

**BART "C" KILLIAN**, *Executive Director, Utah Health Information Network (UHIN)*

**EDWARD KLATT, M.D.**, *Associate Professor, Department of Pathology, University of Utah*

**DENISE LOVE, R.N., M.B.A.**, *Director, Office of Health Data Analysis, Utah Department of Health*

**JEAN E. NASH**, *Director, Resource for Genetic and Epidemiologic Research, Office of the Vice President for Research, University of Utah*

**WAYNE J. PEAY**, *Director, Spencer S. Eccles Health Sciences Library, University of Utah*

**C. MATTHEW PETERSON, M.D.**, *Associate Professor, Division of Reproductive Endocrinology and Fertility, University of Utah*

# INFOFAIR '97

## INTERNET STRATEGIES for Health Data and Education

Thursday,  
April 24, 1997

### Program

## PROGRAM

### THE CLIFFORD C. SNYDER, M.D. AND MARY SNYDER LECTURE AND PANEL DISCUSSION

Location: George and Dolores Eccles Institute of Human Genetics Auditorium

9:30-10:45 AM **Introduction** *Wayne J. Peay*

**Confidentiality of Patient Data in the  
Age of the Internet** *Paul D. Clayton, Ph.D.*

10:45-11:00 AM **Refreshments**

11:00 AM-NOON **Meet the Experts Panel: Confidentiality of Data in the  
Age of the Internet**  
*Paul D. Clayton, Ph.D.; Reed M. Gardner, Ph.D.; Bryan L. Harman; Bart "C" Killian; Denise Love, R.N., M.B.A.; Jean E. Nash; Wayne J. Peay*

**LUNCH** (on your own)

### HEALTH DATA TRACK

Location: George and Dolores Eccles Institute of Human Genetics Auditorium

1:00-1:50 PM **The Utah Health Information Network: Challenges and  
Opportunities**  
*Bart "C" Killian*

2:00-2:50 PM **Utah Health Care Data for Consumers and Professionals  
via the Internet**  
*Denise Love, R.N., M.B.A.*

3:00-3:50 PM **Adding Value with Computerized Decision Support**  
*Reed M. Gardner, Ph.D.*

### EDUCATION TRACK

Location: History of Medicine Room, Upper Level, Spencer S. Eccles Health Sciences Library

1:00-1:50 PM **Creating Web-based Course Materials: Ideas and Possibilities**  
*Sharon E. Dennis*

2:00-2:50 PM **Automatic Generation of Web-based Course Materials**  
*Sharon E. Dennis*

3:00-3:50 PM **Faculty Panel: Using Technology to Support Health Sciences  
Education**  
*Rick Ash, Ph.D.; James Baggott, Ph.D.; Donald Blumenthal, Ph.D.; Edward Klatt, M.D.; C. Matthew Peterson, M.D.*

### EXHIBITS

There is **NO EXHIBIT AREA** this year. InfoFair '97 exhibits are reachable via the Web at the InfoFair '97 Web site: <http://www-medlib.med.utah.edu/infofair/> with links to vendors of hardware, software, and databases, and to University of Utah services and applications.

## HEALTH DATA TRACK ABSTRACTS

### **THE UTAH HEALTH INFORMATION NETWORK (UHIN): CHALLENGES AND OPPORTUNITIES**

*Bart "C" Killian, Executive Director, Utah Health Information Network (UHIN)*

The challenges of gathering a broad cross section of administrative data and the opportunities there are for deriving useful clinical data from the resource will be highlighted. The data is provided by UHIN to a statewide health data repository maintained by the Office of Health Data Analysis.

### **UTAH HEALTH CARE DATA FOR CONSUMERS AND PROFESSIONALS VIA THE INTERNET**

*Denise Love, R.N., M.B.A., Director, Office of Health Data Analysis, Utah Department of Health*

The mission of the Office of Health Data Analysis is to collect, analyze, and disseminate health care information to the public and to support health care reform initiatives. The Utah Hospital Discharge Database and consumer reports are available via the Web at <http://161.119.100.19/hda/hda.html>.

### **ADDING VALUE WITH COMPUTERIZED DECISION SUPPORT**

*Reed M. Gardner, Ph.D., Professor and Chair, Department of Medical Informatics, University of Utah, and Co-Director, Medical Informatics, LDS Hospital*

Clinical data in HELP, a large hospital information system, is used by a variety of expert systems to improve the quality of decision making and of patient care.

## EDUCATION TRACK ABSTRACTS

### **CREATING WEB-BASED COURSE MATERIALS: IDEAS AND POSSIBILITIES**

*Sharon E. Dennis, Associate Librarian, Computer & Media Services, Spencer S. Eccles Health Sciences Library, University of Utah*

What can the World Wide Web do to enhance teaching and learning? Web-based course materials created by the Knowledge Weavers team at the Spencer S. Eccles Health Sciences Library will be demonstrated. Information will be presented about services which the team can offer University of Utah health sciences faculty who are interested in creating online resources. Examples will include lecture materials, slide and video databanks, interactive case studies, multimedia lectures, and quiz banks.

### **AUTOMATIC GENERATION OF WEB-BASED COURSE MATERIALS**

*Sharon E. Dennis, Associate Librarian, Computer & Media Services, Spencer S. Eccles Health Sciences Library, University of Utah*

Do you want to create learning materials on the World Wide Web to support your courses, but don't have the time to learn the technical details? Come see a variety

## EDUCATION TRACK ABSTRACTS

of online templates which allow faculty to easily generate course materials by simply filling out online forms using any Web browser! Demonstrations will include the *Faculty Instructional Toolkit* for creating an online course syllabus; *ImageCat*, an automated document generator for displaying image banks; *VideoCat*, an automated document generator for displaying digital video; a template for creating multiple choice quizzes with feedback; and a presentation building program for creating online lectures using *RealAudio*.

### **FACULTY PANEL: USING TECHNOLOGY TO SUPPORT HEALTH SCIENCES EDUCATION**

*Rick Ash, Ph.D., James Baggott, Ph.D., Donald Blumenthal, Ph.D., Edward Klatt, M.D. and C. Matthew Peterson, M.D.*

Come and ask questions of other faculty who have created learning materials using technology. Rick Ash, Ph.D. created the *HyperHistology* computer-based learning program. James Baggott, Ph.D. created the *Integrated Biochemistry Learning Series HyperCard* program as well as *NetBiochem*, a Web-based learning program. Donald Blumenthal, Ph.D. created *NetPharmacology* on the World Wide Web to help students learn cardiac pharmacology. Edward Klatt, M.D. created *WebPath*, an internationally acclaimed pathology learning resource on the Web. C. Matthew Peterson, M.D., created a Web site to support the Human Reproduction component of the sophomore organ systems course.

Dr. Clifford C. Snyder, Professor of Surgery, founded the Division of Plastic and Reconstructive Surgery at the University of Utah School of Medicine in 1967 and served as chair of that division until 1985 when he was appointed Professor Emeritus of Surgery and Associate Dean of the School of Medicine. Throughout his career, Dr. Snyder has been an ardent supporter of the library. Dr. Snyder's endowment of The Clifford C. Snyder, M.D. and Mary Snyder Lectureship provides funding for the featured presentation at InfoFair.

## THE CLIFFORD C. SNYDER, M.D. AND MARY SNYDER LECTURESHIP

The Staff and the Public Relations Team of the  
Spencer S. Eccles Health Sciences Library  
The George & Dolores Eccles Institute of Human Genetics  
The University of Utah School of Medicine  
Department of Medical Informatics  
Office of Continuing Medical Education  
The University of Utah Health Sciences Center  
Office of Public Affairs

## SPECIAL ASSISTANCE PROVIDED BY

## REGISTRATION

InfoFair '97 is **FREE. REGISTRATION IS NOT REQUIRED.**

## DIRECTIONS

The Spencer S. Eccles Health Sciences Library is located on the University of Utah Health Sciences Center Campus just south of the University Hospital/School of Medicine Building and northeast of the Nursing Building. The George and Dolores Eccles Institute of Human Genetics is located southeast of the Library. Signs on Wasatch Drive and North Medical Drive mark the route to the Spencer S. Eccles Health Sciences Library. A brochure on "Transportation to Eccles Library" is available by calling (801) 581-5534 or via the Web at: <http://www-medlib.med.utah.edu/infofair/trans.pdf>

Parking at the University is quite a challenge at times. Parking passes are available from the Parking Services Office located on the west side of Wasatch Drive. Come early as parking spaces fill up quickly! For a parking brochure or further information about parking at the University of Utah, contact Parking Services at (801) 581-6415. Parking Service Office hours are: 7:30 am - 5:00 pm Monday - Friday. The University Department of Parking and Transportation Services provides free shuttles across campus from 6:00 am to 6:00 pm Monday - Friday. Contact Shuttle Customer Service (801) 581-4189 for details. The Utah Transit Authority (UTA) serves the University of Utah with 21 direct routes including two express routes from Weber and Utah counties. Call UTA at (801) 287-4636 for details and schedule information.

## COORDINATORS

Christopher R. Anderson, Financial Coordinator  
Patricia Y. Arter, Chair, Public Relations Team  
Niloofer Bakhti, Facilitators Coordinator  
Sharon E. Dennis, Education Track Coordinator  
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Faye K. Hadley, Hospitality Coordinator  
Nancy E. Litz, Equipment Coordinator  
Wayne J. Peay, The Clifford C. Snyder, M.D. and Mary Snyder  
Lectureship Coordinator

## QUESTIONS

If you have questions about InfoFair, please contact us:

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URL: <http://www-medlib.med.utah.edu/infofair/>

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