

Dear Colleague:

The thirteenth Slice of Life Workshop and Computers in Healthcare Education Symposium returns to the University of Utah in 2000 after traveling to Vancouver, Copenhagen, Chicago, Tampa, and Philadelphia. The Slice of Life workshop began at the Eccles Library in 1988 and has continued on an annual basis. In 1998 Gold Standard Multimedia offered to host the Web site, and handle logistics and registration. The purpose of the workshop is to bring together developers of medical and health-related educational multimedia. Attendees usually fall into one of the following categories: (1) Medical educators (including library staff and course directors) that want to see how new technology is used and get ideas about what is available. (2) Software developers (includes WWW) who may or may not also be faculty and who want feedback on projects completed or under development. (3) Current and potential developers wanting to see new directions in software and technology. (4) Those eager to network with colleagues with similar academic or technical interests. (5) Those who know nothing about computers and learning but were sent by some dean or committee who said they should come so their school could get with it! The workshop program involves more than half the attendees in some way and avoids concurrent activities in order to stimulate communication and networking. The workshop is limited to 250 registrants.

The event has two major parts. An optional 2 days of hands-on or lecture/demo Pre-workshops on June 27 and 28 and two and one-half days of auditorium presentations, demonstrations, breakout sessions, posters and special interest groups on June 29-July 1. The Web site archives contain the program and abstracts from the previous three meetings for those interested in seeing the content of previous events.

Special events will include dinner and an evening at the Red Butte Arboretum and something special Wednesday night before the main workshop begins. A traditional Saturday afternoon and evening extravaganza (extra \$) following the conclusion of the workshop will be a journey up one of the canyons to sit or exercise, consume good food and enjoy entertainment. If this is not enough there are 15 places left on a White Water Rafting Trip, July 3-7 on the Yampa River in Dinosaur National Monument near Vernal, Utah.

This year Suzanne Stensaas and the Knowledge Weavers at the Eccles Health Sciences Library together with Media Solutions are handling the program, equipment and facilities. Gold Standard Multimedia is mounting the Web site and handling registration and logistics. Thomas Jefferson University is in charge of the mailing list.

PROGRAM INFORMATION:

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REGISTRATION:

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AUDITORIUM EQUIPMENT:

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DEMONSTRATION EQUIPMENT:

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ACCOMMODATIONS: If you choose to stay elsewhere you will be responsible for your transportation. Being together is an important part of the workshop and we hope you will stay at one of the two conference lodgings. There are *NO* other hotels near the campus. You would need to rent a car or take taxis (local buses infrequent) if you stay elsewhere. Salt Lake is not New York and taxis must be called in advance.

Option 1: Marriott University Park Hotel, 480 Wakara Way, Salt Lake City, UT 84108. (*Caution*, there is a downtown Marriott). The hotel web site: www.marriott.com/slucup

To make reservations call or fax the hotel directly, (801) 581-1000 or fax (801) 584-3321. Central booking at (800) 637-4390 is less likely to give you the Slice of Life rate. Credit card guarantee required. Identify yourself as a Slice of Life Workshop or The Computers in Healthcare Education Symposium attendee to insure the special rate. Beautifully situated in Research Park at the base of the mountains and connected to the medical campus by shuttle bus, bike or walking path. Consider sharing a room as the price is \$114 for one or \$124 for two plus 11% tax. This includes an abundant full buffet breakfast. The Gold Standard Multimedia Hospitality Suite will be located on the fifth floor. We have reserved a limited block of rooms which will only be **held until June 1**. After that the price will be about \$140 without breakfast. Each room has either two doubles, a queen or a king. Small suites are \$124 with breakfast additional. Please indicate, if you desire a no-smoking room. Parking is free. Walking, biking and campus busses are encouraged. There is a trolley bus to downtown. The zoo and pioneer village are adjacent to the campus and the arboretum is part of the university. The campus also has a Museum of Natural History, Fine Arts Museum, student union, large university book store with excellent computer equipment, software and books. Suzanne Stensaas will try to connect you with a roommate if you are interested in sharing a room. The hotel provides transportation from the airport in a free van but you may have to wait 30-40 mins. for the van to come and get you. Or take a taxi (approx. \$25). The hotel has a restaurant, bar, pool and exercise room. (**Option 2 is on page 2**)

University of Utah

Knowledge Weavers

KUED Media Solutions

Eccles Health Sciences Library

Slice of Life Development Fund

Thomas Jefferson University

Gold Standard Multimedia

invite you to the

Slice of Life Workshop *and*

Computers in Healthcare Education Symposium

PREWORKSHOP TUTORIALS

Tuesday and Wednesday

JUNE 27-28, 2000

PRESENTATIONS AND DEMONSTRATIONS

Thursday, Friday, Saturday

JUNE 29 –JULY 1, 2000

Salt Lake City, Utah

<http://www.slice.gsm.com>

Accommodations Option 2:

University Guest House. 110 S. Fort Douglas Blvd, Salt Lake City, UT 84113-5036. Toll free reservations 1-888-416-4075. Local phone 801-587-1000. Ask for the Slice of Life or CHES block of rooms to get the special rate. Web site: www.guesthouse.utah.edu

This newly opened (11/99) 136 room facility is adjacent to the Health Sciences Center and about 2 blocks from the meeting site. It is more convenient, because it is on campus and is less expensive. However, it has no restaurant or bar. A continental breakfast is included and food can be purchased at the hospital cafeteria about 3 blocks away. Rooms have coffee makers, refrigerator, microwave, iron, and hairdryer. There is no pool. There is an exercise room. We have reserved a small block of rooms priced as follows:

\$75 for room with single king or double queen beds. A third person is \$10 extra.

\$90 for a deluxe king with sitting room that sleeps 2.

\$121 for king suites that sleep 2. Tax is 10%. Parking is \$3/ day. Transport from airport is taxi(\$20) or the city airport bus goes to down town and transfers to a city bus to the front of the hospital about 4 blocks away. (Buses run about every 30 mins..) Campus shuttle buses run over to research park and the Marriott Hotel (about 3/4 mile) until 6 p.m. Walking or taxi to the Marriott Hotel are alternatives. We have reserved fewer rooms at this location so if you are interested book early. **Rooms held until June 1.**

HOSPITALITY SUITE OPENS, MARRIOTT UNIVERSITY PARK HOTEL

Monday, Tuesday, Wednesday and Friday 6:00 p.m. On the 5th Floor (near the elevators)

Pick up your registration materials here. This is a site for meeting new and old friends and sharing ideas. A place to bring your portables and swap ideas. Workshop attendees and families can have a snack or drink and inquire about places to eat. Join a group for dinner, catch a ride with those who have cars.

The Hospitality Suite is sponsored by Gold Standard Multimedia

PRE - WORKSHOP TUTORIALS

TUESDAY, JUNE 27 AND WEDNESDAY, JUNE 28, 2000

The location of the Pre-workshop tutorials will be posted in the hotel and on the Web site, best to check for last minute changes.

Workshops are open to non-workshop registrants after June 1 depending on availability.

An additional fee of \$50/ full day and \$25/half day will be charged to non-registrants except to University of Utah staff.

We reserve the option of cancelling workshops with fewer than six registrants.

TUE SDAY, JUNE 27, 2000

8:30 a.m. – 12:00 p.m. Creating Web-based Multimedia with SMIL (\$85 with lunch). Hands-on, Limit 20

Preregistration Required. Cost to non-workshop registrants is \$110. **Marriott Library Computer Lab Room 1745.**

INSTRUCTORS: *Sebastian Uijtdehaage and Zhen Gu, UCLA School of Medicine, Los Angeles, CA*

Who Should Attend: Anyone who realizes that effective learning environments can be created with synchronized multimedia. The workshop will help participants start creating SMIL multimedia presentations.

Prerequisites: The participants should be familiar with basic HTML, digital image formats (e.g., jpeg, gif), and with RealPlayer G2.

Synopsis: Creating synchronized multimedia for the Web was cumbersome until the recent introduction of Synchronized Multimedia IntegrationLanguage (SMIL). SMIL is a surprisingly simple, HTML-like language with which a Web designer can synchronize video, audio, text and images. In this hands-on workshop the participant will: (1) learn how to prepare media for streaming delivery over the Web, (2) create a simple SMIL presentation, (3) review SMIL authoring tools, (4) assess SMIL alternatives.

8:30 a.m. – 12:00 p.m. The Wonders of QuickTime Pro Player as a Video Editing Tool. (\$85 with lunch). Lecture/Demo format.

Preregistration Required. Cost to non-workshop registrants is \$110. **Marriott Library Room 1715**

INSTRUCTORS: *Paul E. Burrows, Media Solutions, University of Utah, Salt Lake City, UT*

Synopsis: Whether working from a Windows or Macintosh computer, most think of the QuickTime Player (formerly known as Movie Player) as a way to view digital movies. It's much more than that. With the professional upgrade of your QuickTime Player, you have in your hands a powerful editing tool. You gain entrance into the multiple tracks of multimedia data that can be part of a QuickTime "movie." This workshop will demonstrate the editing functions of the QuickTime Pro Player. We will illustrate the various tracks (video, sound, music, text, 3-D, Sprite, MPEG, Flash) and show how the Player can be a great editing tool.

No prerequisites. Benefit in Attending Session: Don't want a full non-linear editing software package for your digital videos? What if your editing needs for QuickTime are straight forward and you want to prepare a finished movie for distribution? The QuickTime Pro Player may be the tool of choice.

8:30 a.m. – 12:00 p.m. Technologies for Building Interactive, Database-Driven Web Applications: Features, Frustrations and Foibles (\$85 with lunch) Lecture/Demo. Preregistration Required. Cost to non-workshop registrants is \$110.

History of Medicine Room, Eccles Health Sciences Library

INSTRUCTOR: *Sharon E. Dennis, M.S., Spencer S. Eccles Health Sciences Library, University of Utah, Salt Lake City, UT*

Prerequisites: For a beginner audience. Familiarity with basic Web terminology (Web server, browser, URL, etc.)

Synopsis: Everyone agrees that the best way to create and maintain Web site content and interactive Web applications is to build dynamic Web pages linked to a database. The question is, which technology to use to accomplish this? If you're confused by the alphabet soup of dynamic Web technologies (ASP, JSP, PHP) then attend this workshop to help you decide which technology is right for you. (If you'd like to learn how to code ASP's, see the pre-workshop "Introduction to ASP: Building Interactive, Database-driven Web Applications.")

Topics to be covered: Compare and contrast advantages and disadvantages of three dynamic Web server technologies: Active Server Pages (ASP), Java Server Page (JSP), and PHP: Hypertext Preprocessor³. Explore various options for the back-end database to hold your content, depending on the type of content, your platform, technical expertise and how much traffic you expect to generate. Discuss experiences with graphical tools that claim to make it easier to generate dynamic Web pages without programming. Demonstrate a small application using all three technologies.

8:30 a.m.– 12:00 p.m. Encoding, Editing and Authoring DVD and Streaming Video(\$85 with lunch). Lecture / Demonstration. Preregistration Required and limited to 10. Cost to non-workshop registrants \$110. **Eccles Health Sciences Library, Upper level**

INSTRUCTORS: Jimmy Miklavcic, Univ. of Utah Center for High Performance Computing, and Nancy Lombardo, Eccles Health Sciences Library

Synopsis: The information age is demanding new ways to present information to those who seek it. Tools to produce multimedia presentations, whether they are passive or interactive, are abundant. This workshop will take the participant through the process of creating multimedia presentations for the Web, DVD, and video on demand (VOD). From capturing and encoding to editing and authoring, attendees will learn the basics in video streaming and servers, video production (edit, compositing & titling), and CD/DVD authoring.

9:00 a.m.-4:30 p.m. Getting Started with Macromedia Director 7. A Hands-on Introduction to a Popular Authoring Environment. (\$150 with lunch) Preregistration Required. Limited to 15. Cost to non-registrants \$200. **Room 1705A Marriott Library**

INSTRUCTORS: Michael Schacht Hansen and Jens Dørup, Section for Health Informatics, University of Aarhus, Denmark.

Prerequisites: No prior experience with Director is required, but basic computer skills are.

Synopsis: Director is not something that can be mastered in a day, but this introduction will help the participants to get past the first few hurdles. The program will be divided into a morning session where everything is done by pointing and clicking with the mouse and an afternoon session where the attendees will get a first taste of Director's very powerful scripting language, Lingo. The following topics will be covered:

- Introduction to the environment. Understanding the Director metaphor.
- Basic animation (without scripts).
- Basic navigation (using the behaviors that ship with Director).
- An introduction to scripting in Director.
- Creating the first behavior.
- Deployment. Stand-alone application or the Web.

9:00 a.m. -4:30 p.m. Beginning JavaScript. (\$150 with lunch) Hands-on. Preregistration Required. :Limit 10. Cost to non-workshop participants \$200. **Computer Lab, Eccles Health Sciences Library, lower level.**

INSTRUCTOR: Ulrich Woermann, Division for Instructional Media, University of Bern, Switzerland

Prerequisites: Working knowledge of HTML (especially forms) and a basic understanding of programming

Who should attend: Anyone who wants to add interactivity to a Web site without too much effort.

Synopsis: JavaScript is a world wide standard that allows Web authors to create cross-platform interactivity by controlling the various elements of HTML. JavaScript is not as powerful as compiled programming languages such as C++ or Java, but it is much easier to learn and to implement. Included are how to change an image (rollover effect), change the content of a frame, open a new window, and simple calculations. Debugging with the Netscape Console and Internet Explorer will be covered as well as MIME type mapping on the WWW-Server.

1:00 p.m.-5:00 p.m. Using LiveStage Pro to Create Interactive QuickTime Movies. (\$75) Lecture/Demo. Preregistration Required. Cost to non-registrants \$100. **Marriott Library Room 1715**

INSTRUCTOR: Paul E. Burrows, KUED Media Solutions, University of Utah, Salt Lake City, Utah

Synopsis: The software from Totally Hip Software, Inc. called LiveStage Professional was released in January of 2000. With it, a novice or an advanced user can create cross-platform QuickTime movies with multiple tracks of data (video, sound, music, 3D, text, Flash, MPEG, etc.) with clickable interactivity and hyperlinks. The finished movies can be distributed via the Web, as stand-alone, or embedded media.

Benefit: Get under the hood of QuickTime without being a programmer. With the use of LiveStage Professional, you can create multi-track QuickTime movies with interactivity and hyperlinks. These movies can be embedded in any Web page, just like regular QuickTime movies. QuickTime is more than a digital movie format, it is an entire architecture that acts as a container program for a host of digital media and interactive events. From linear digital movies and audio files, to VR, animated sprites and interactive buttons and hyperlinks...QuickTime can house them all within its "movie" format.

1:00 p.m.-5:00 p.m. QuickTime for Java (QTJ) for Project Coordinators and Developers. Hands-On. (\$75). Preregistration Required. Cost to non-registrants \$100. **Marriott Library Room 1745.**

INSTRUCTORS: *Martin Adler, Inga Hege, Ludwig-Maximilians-University, Munich, Germany*

Who should attend: A technical overview of QTJ for programmers: demonstrating sample code and the use of the API. If you bring your own laptop you can experience the demonstrations on your own machine.

Synopsis: QuickTime became a quasi-standard for multimedia productions. With its low-priced streaming capabilities, QuickTime still holds its ground against competitors like REAL or Microsoft's Media server technologies. QuickTime for Java (QTJ), first presented in 1998 and published in 1999, was the next logical step. This workshop will provide project coordinators and developers with all the information they need for the use of QuickTime for Java in their own multimedia projects. Integrate movies into Java applications and applets. QuickTime for Java and SUN's Media Framework seemed to be the only available solutions. We

1:00 p.m.-4:30 p.m. Finding and Using Rich Content for Medical Education. Hands-on. (\$75) Preregistration Required. Limit 15. Cost to non-workshop registrants is \$100. **Computer Lab, Eccles Health Sciences Library, lower level.**

INSTRUCTOR: *Robert S. Stephenson, Department of Biological Sciences, Wayne State University, Detroit, MI*

Prerequisites: None. This session is designed to show faculty how to enrich their courses by finding, evaluating and linking material already on the Web into their courses. A great place to get started if you are an instructor and NOT interested in creating new content.

Synopsis: Rich Content, such as simulations, animations, 3-D models and interactive quizzes and tutorials, helps students to learn better, learn more, remember better and enjoy it more. Since it leads to more effective teaching Rich Content will soon be a staple in every course. Besides scientific accuracy, Rich Content must adhere to principles of sound design and pedagogy. The Harvey Project (<http://harveyproject.org>), an open course collaboration to build rich content for physiology, has developed procedures and standards for peer review of Rich Content. There are a number of databases that allow you to search for Rich Content of a particular sort on a particular topic. This introduces Beads & String, an open source tool which allows a faculty member to assemble a collection of Web pages into a particular sequence (like stringing beads for a necklace) and then give that string to students to follow in a Web browser.

WEDNESDAY, JUNE 28, 2000

8:30 a.m. – 12:00 p.m WWW Online Courseware Development & Delivery Tools: Comparisons & Contrasts. (\$85 with lunch) Panel/Demo. Preregistration Required. Cost to workshop non-registrants is \$110. **Marriott Library Room 1725.**

COORDINATOR: *Paul E. Burrows, KUED Media Solutions, University of Utah, Salt Lake City, Utah*

Who Should Attend: Beginners and experts who are investigating Web-based curriculum development and delivery for a course or institution. Save time selecting a "package" by taking advantage of the experts who have worked with different course development and administration management packages. Find out how usable and modifiable they are.

Synopsis: Strengths, weaknesses, and a comparison of Blackboard, WebCT, and Lotus Learning Space will be discussed. Update yourself on the competitive and expanding training and eLearning environments. Participants are encouraged to submit or bring questions as well as contribute their experiences with other development tools they have used.. Internet demonstrations of courses built with each of these tools will be included. This is NOT a teaching session, it is a comparison session. It is designed to assist course directors and institutions in selecting the best tools for Web-course development.

9:00 a.m. – 4:30 p.m. Automating the Evaluation Process: From Form Design to Results Reporting. (\$150 with lunch). Hands-on. Limit 32. Preregistration Required. Cost to non-workshop registrants is \$200. **Marriott Library Room 1745**

INSTRUCTOR: *Richard Rathe, Associate Dean for Information Technology and Associate Professor of Family Medicine, University of Florida, Gainesville, FL. with assistance from Nancy Lombardo, Eccles Library.*

Who Should Attend: This workshop is intended for educators, administrators and support staff who must evaluate programs, faculty, and students. Participants should have a basic knowledge of Web browsers and text editors. Familiarity with spreadsheet and presentation software is helpful but not required. No computer programming or HTML authoring skills are required.

Synopsis: This workshop will start with issues of evaluation and examination online. The class will learn to use EvalCGI and the Evaluator's Tool Kit (both programs are free to participants) by building a functional evaluation Web site during the sessions. Exercises include: form definition, form security, submission tracking, item analysis, data manipulation, and results reporting. Both tools have data export functions for use with spreadsheets, databases and presentation software. Participants are strongly encouraged to bring prepared materials such as paper forms you would like to begin using online. Contact: rrathe@ufl.edu with questions.

9:00 a.m. – 4:30 p.m. Producing and Using Quicktime Virtual Reality in Medical Education. Lecture/Demo/Hands-on (\$150 with lunch) Preregistration Required. Limit 30. Cost to non-workshop registrants is \$200. **Marriott Library Room 1715**

INSTRUCTORS: *Jens Dørup, Section for Health Informatics, University of Aarhus, Denmark, Robert B. Trelease, Department of Pathology and Laboratory Medicine, UCLA School of Medicine, Los Angeles and Gary L. Nieder, Department of Anatomy, Wright State Univ., School of Medicine, Dayton, OH.*

Who Should Attend: Those curious about using QTVR to make "movies." Basic computer skills required (Mac or PC). We recommend for workshop participants to read/bring: Susan Kitchen's book, "*The Quicktime VR Book*".

Synopsis: A practical hands-on session where you will produce QTVR movies, as well as capture images for a simple panorama and object QTVR movie. Topics include: preparation of images, use of QTVR Authoring Studio (Mac), VR Toolbox (Mac/PC) and other tools to produce 3D object movies and zoom in panoramas for visualization. Use of the macropanorama technique for visualizing small anatomic spaces. Produce virtual bones and joints, a virtual microscope or virtual MR scanner and put it on the web for your students. Multiple examples will be shown.

9:00 a.m. – 4:30 p.m. XML - An Overview of eXtensible Markup Language. Hands-on. Limited to 10. (\$150 with lunch). Cost to non-workshop registrants is \$200. **Preregistration Required. Marriott Library Room 304B**

INSTRUCTOR: Chris Candler, University of Oklahoma, College of Medicine, Oklahoma City, OK.

Prerequisites: A working knowledge of HTML is strongly recommended.

Synopsis: Participants will be presented with an overview of XML 1.0 and the XML family of standards as a way to structure information. Like HTML, XML (eXtensible Markup Language) is a new subset of the Standard Generalized Markup Language (SGML). HTML is more of a page layout language. XML permits user defined discipline-specific tags to give meaning to content. XML has the ability to separate style from data, which will allow media-independent portability (e.g., CD-ROM, hard copy, PDA). In these ways XML will bring more features to the Web as it provides a more powerful framework to visualize, manage and share information. Advantages include more precise searching and more advanced linking within and among courses. When fully implemented across the curriculum it will allow schools to better understand the information they are teaching by revealing discrepancies, duplications, and new relationships between courses and topics.

9:00 a.m. – 4:30 p.m. Introduction to ASP: Building Interactive, Database-Driven Web Applications. (\$150 with lunch). Limit 14. Hands-on. Preregistration Required. Cost to non-registrants is \$200. **Computer Lab, Eccles Health Science Library, lower lev.**

INSTRUCTORS: Sharon Dennis and Susan Roberts, Spencer S. Eccles Health Sciences Library

Prerequisites: Intermediate knowledge of HTML is REQUIRED; you should have experience hand-coding HTML pages and understand the code, even if you have used a WYSIWYG editor. You should be able to code an HTML form or to quickly pick up on the coding; forms coding will be assumed and not explained in detail. Some experience with a scripting language such as HyperCard or JavaScript is recommended, but not necessary. Windows PCs only.

Synopsis: Are you interested in adding more interactivity to your educational Web sites? Using Microsoft's Active Server Pages (ASP) technology, you can build interactive, dynamic, database-driven Web applications. This makes updating and maintaining your content much easier and less time consuming than manually editing static pages so your content stays "fresh" and interesting for your students. Learn how to move from creating Web "pages" to creating Web "applications". For more details see the Web abstract.

1:00 p.m. – 4:30 p.m. Human Cognition and Graphic Design for Multimedia Authors. (\$75) Lecture/Demo. Preregistration Required. Cost to non-workshop registrants is \$100. **Marriott Library Room 1725.**

INSTRUCTOR: William G. Cole, PhD, Information Design Seattle, Seattle, WA

Who Should Attend: No previous experience is required to benefit from this workshop. Dr. Cole has ten years experience delivering tutorials and workshops that help people understand what works (graphic design principles) and why (cognitive psychology research).

Synopsis: Information design is an emerging multidisciplinary field drawing on several core disciplines, including graphic design, cognitive psychology, statistics, philosophy, semiotics, and linguistics. Very few people are well versed in these core disciplines or in the new multidisciplinary field, yet in health care today many of us are called upon to design human-computer interfaces, Web sites, or multimedia education modules. This workshop covers information design in health care with an emphasis on cognitive psychology research and principles of graphic design. Case studies will be presented from the instructor's experience as a consultant. Attendees are invited to apply lessons learned during the workshop to the improvement of sample designs.

1:00 p.m. – 5:00 p.m. Computer Testing: Use of LXR Software to Create Questions Banks and Examinations. (\$75) Hands On. Cost to non-workshop registrants is \$100. **Preregistration Required. Limit 18. Computer Lab Eccles Health Sciences Library.**

INSTRUCTOR: Larry J. Fabry, Applied Measurement Research, Lenexa, KA and Timothy Fitzharris, Medical University of South Carolina.

Prerequisites: None, only basic computer literacy.

Synopsis: Create and manage question banks for standard written paper exams, as well as online exams using a server or individual computer. Learn how to use commercially available software in a variety of question formats, catalog questions for grouping, analysis and sorting by type and multiple version tests. Import questions from a word processor as well as photos, charts and line drawings. Scoring of exams online will be demonstrated, as well as the creation of grade books by direct importing of test results into standard spreadsheet software.

REGISTRATION MATERIALS may be picked up in the Hospitality Suite on the 5th floor of the Marriott Hotel Wednesday evening from 6-8. On site registration may or may not be possible. Telephone, fax or email first.

****WEDNESDAY AFTERNOON BETWEEN 2-5 P.M. ALL PRESENTERS FOR THURSDAY MORNING SHOULD BRING THEIR SOFTWARE TO TEST IN THE SKAGGS AUDITORIUM OF THE COLLEGE OF PHARMACY. (CHECK THE BULLETIN BOARD IN THE HOTEL LOBBY FOR MAP).****

THURSDAY, JUNE 29, 2000: AUDITORIUM PROGRAM
Skaggs Hall Auditorium, College of Pharmacy

- 8:00 a.m.** **REGISTRATION:** Lobby outside the auditorium.
- 8:30 a.m.** **WELCOME and INTRODUCTIONS:** Wayne J. Peay, *MLS, Director, Eccles Health Sciences Library*
- 8:40 a.m.** **KEYNOTE: Technology, Black Holes, and Wounded Healers.**
Michael Stein, MD, PhD, Executive Director, Co-Founder, medschool.com, Santa Monica, CA and Oxford, UK
Dr. Stein is an author, publisher, and part-time medical teacher at Oxford University in England. Dr. Stein graduated in medicine from the University of Cape Town in South Africa and went on to complete a doctorate in immunology at Oxford as a Rhodes scholar. He will examine why what we have been doing in our individual universities has not worked in terms of rapidly bringing about institutional or global change in medical education despite the effort and investment in equipment and expertise over the past 20 years.
- 9:20 a.m.** ***SLICE OF LIFE...Vintage Wine in New Bottles.***
Paul E. Burrows, MA, Media Solutions, University of Utah, Salt Lake City, UT
- 9:35 a.m.** ***Cognitive Psychology in Information Representation for Multimedia Developers.***
William G. Cole, PhD, Information Design Seattle, Seattle, WA
- 10:00 a.m.** ***Coffee Break***
- 10:30 a.m.** ***Recycling CD-ROM Resources to the Web While Maintaining Graphic Integrity.***
Patrick J. Lynch, MS, Center for Advanced Instructional Media, Yale University, New Haven, CT
- 10:45 a.m.** ***Towards a Peer-Reviewed and Updated Image and Case Bank by the American Society of Hematology (ASH).***
Emmanuel C. Besa, MD, MCP Hahnemann University, Philadelphia, PA
- 11:00 a.m.** ***A Method of Reviewing Student Clinical Skills on Computer-Based Patient Simulations Embedded in a Clinical Clerkship Experience.*** Joel Gordon, MD and Scott Elliott, University of Iowa, College of Medicine, Iowa City, IA
- 11:15 a.m.** ***Impediments to Computer-Based Learning in the Developing World***
Jamsheer Talati, MD, Inam Pal, Kamran Hameed, Kamran Javed, Syed Mehmood Ali Shah, Roger A L Sutton, Camer W Vellani, The Aga Khan University, Karachi, Pakistan
- 11:30 a.m.** ***EtherMed: An Experimental Database of Health Professions Educational Resources on the Web.***
Charles Sneiderman, MD, PhD; Craig Locatis, PhD, Paul Fontelo, MD, MPH; Joe Band, National Library of Medicine, Bethesda, MD
- 11:40 a.m.** ***NetNote: Promoting Structured Data Entry, Medical Education, Data Gathering and Dissemination of Standards.*** Christopher Kreis, MD, MGH Laboratory of Computer Science, Harvard University, Boston, MA
- 11:55 a.m.** ***Animation Showcase: Flash, Freehand and Director.*** Selections from Demonstration Programs
- 12:15 p.m.** ***LUNCH on Skaggs Patio (Provided for all registered). Do not take the vegetarian unless you ordered one!***

Please SET UP YOUR DEMONSTRATIONS and POSTERS between 1:00-2:00 p.m., unless you are leading a break-out session. NO FOOD in the library. You are requested to be present from 2:00 – 3:30 or 3:30 – 5:00. This will give each demonstrator time to see the other demonstrations. Demonstrators are expected to be in the demonstration area even if not at their assigned location so people can talk to them. See final program for your day as some switching between Thursday and Friday may have occurred.

BREAK-OUT SESSIONS: 12:45-1:45 p.m.

- 12:45 p.m.** ***Medicine and Medical Education in the Next Decade: Designing the Applications That Will Be Needed.***
Andy C. Reese, PhD, Gold Standard Multimedia
- 12:45 p.m.** ***Shared Experiences of Animators.***
Valeri Craigle Eccles Health Sciences Library, Utah and Carlos Baptista, OSU, Toledo, OH
- 12:45 p.m.** ***Streaming Video: RealMedia vs. QuickTime.*** Paul Burrows, KUED Media Solutions, Nancy Lombardo, Eccles Health Sciences Library, David Maw, Utah Education Network, University of Utah, Salt Lake City, UT
- 12:45 p.m.** ***Selling or Licensing Content, Graphics, Video and Images: How should it be done to be fair to Creator, Institution and Publisher?*** Terry Clark, MD and Wayne J. Peay, MLS, Univ. Utah, Salt Lake City and Michael Stein, MD, PhD, medschool.com, Oxford, England
- 12:45 p.m.** ***Cognitive Issues in Information Representation and Graphic Design***
William G. Cole, PhD, Information Design Seattle, Seattle, WA
- 12:45 p.m.** ***Assembling a Computer Patient Case. Issues of Cost, Time, and Curricular Integration.***
Joel Gordon, MD, University of Iowa, Hurley Myers, PhD, Southern Illinois University, Carbondale, IL
- 12:45 p.m.** ***Predict the Future: Technology and Medical Education in 2010.***
Tracy Kelly, better health @ here now, Association of American Medical Colleges, Washington DC

****THURSDAY AFTERNOON BETWEEN 1-5 P.M. ALL PRESENTERS FOR FRIDAY MORNING
SHOULD BRING THEIR SOFTWARE TO TEST IN THE SKAGGS AUDITORIUM OF THE COLLEGE OF PHARMACY.**

POSTERS WILL BE DISPLAYED THURSDAY & FRIDAY

2:00 P.M. - 5:00 P.M. Eccles Health Sciences Library, Lower Level

Integration of Information and Communication Technology in a Medical Curriculum May Create a Technology Divide Between 'Have and Have-nots'.

Bengt Kayser, MD, PhD, Daniel Scherly, Jean-Dominique Vassalli, Nu. V. Vu, UDREM, Univ. of Geneva Fac. of Med., Switzerland

Reading and Printing: Incorporating the Computer into the Curriculum.

Mark W. Platt, Louisiana State University Health Sciences Center, Shreveport, LA

Taking on the Web: Using Web-Based Data Collection to Track the Quality of Medical Education.

John Lockwood, PhD, Division of Medical Education, Association of American Medical Colleges, Washington DC

Development of a Technologically-Enhanced Educational Environment for Teaching Human Anatomy.

James J. Walker, J. Leslie Booth, Aaron D. Booth, Peter Ponco, Purdue University and Lafayette Center for Medical Education

Managing an Online Academic Calendar Using Microsoft Outlook Exchange.

Rob Freedman and Chris Candler, MD, University of Oklahoma College of Medicine, Oklahoma City, OK

Automated Indexing of Digital Video Lectures Using Off-the-Shelf Components.

David A. Wheeler, Robert F. Dickehuth, Charles L. Seidel and Boyd Richards, Baylor College of Medicine, Houston, TX

Instructional Technology: Integrating Methods, Facilities, and Curriculum.

James L. Culberson, Jeffrey Altemus and Richard Dey, Department of Anatomy, Univ. West Virginia, Morgantown, VA

Addressing the New Clinical Education Paradigm: Undergraduate Clinician Electronic Data Entry Training (CEDE).

David Bolling, MD and Gary F. Guest, DDS, University of Texas Health Science Center, San Antonio, TX

Prototype for a Case-Based Electronic Dissection Guide: Neurosurgical Simulation for the Anatomy Laboratory.

Frank Hughes, Ph.D. and David Rothbart, M.D., Rush Medical College, Chicago IL

Psychiatric Nursing Multimedia. Cynthia L. Miller, PhD and Collin McKacy, PhD, University of Texas, Houston, TX

Multimedia Database Repository Using XML and IMS.

Chris Candler; Sharon Dennis; Sebastian Uijtdehaage; University of Oklahoma; University of Utah; UCLA, CA

Teaching, Plan B: A Web-Based Course in Research Ethics.

Michael D. Mann, University of Nebraska Medical Center, Omaha, NE

THURSDAY, JUNE 29, SHOW AND TELL/DEMONSTRATIONS

2:00 P.M. - 5:00 P.M. Eccles Health Sciences Library, Lower Level

Demonstrations by the following morning presenters will be also be available although not listed below: Michael Stein, MD

Patrick Lynch, MS, Manny Besa, MD, Joel Gordon, MD, Jamsheer Talati, MD, Charles Sneiderman, PhD, Chris Kreis, MD

Hand-Held Computing for Psychiatry Residents and Medical Students. Robert S. Kennedy, MA, Medscape Inc., NY, NY

Radiologic Holograms: 3-Dimensional Teaching Tools for Gross or Neuroanatomy: Viewed with 3-D glasses on an iMAC or as Film on a Special Light Box. Kurt H. Albertine, Raymond A. Schulz and S.J. Hart, Departments of Neurobiology and Anatomy and Radiology, University of Utah and VOXEL Inc., Salt Lake City, UT

Re-Animating the Health Sciences: Using Flash 4 in the Development of Multimedia for Medical Education.

Valeri Craigle, Eccles Health Sciences Library, University of Utah, Salt Lake City, UT

The Use of Personal Digital Assistants (PDA's) in Health Care Education and Clinical Practice.

Elise S. Eisenberg, DDS, NYU College of Dentistry, NY, NY

Integration of Movies and Image Maps in a Head and Neck Atlas. Phyllis A. Slott, PhD, Inderjit Singh, DDS, PhD, Anthony R. Mercurio, PhD Arvind Suthar, BDS, B Sc, M Sc, Harvey I. Wishe, PhD, NYU College of Dentistry, NY, NY

Computerized Access from Rural Family Medicine Rotations.

Robert W. Foster, DO, Darryl Hale, and Helen Baker, West Virginia School of Osteopathic Medicine (WVSOM), Lewisburg, WV

UCLA Interactive Neuroscience on the WWW and CD-ROM.

Sebastian Uijtdehaage, PhD, Carolyn Houser, PhD, Anju Relan, PhD., Zhen Gu, BS, UCLA School of Medicine, Los Angeles, CA

Cataloging and Exchanging Digital Multimedia.

Sebastian Uijtdehaage, Sharon Dennis, Chris Candler, UCLA, University of Utah and University of Oklahoma, Schools of Medicine.

Using Multimedia and Models to Teach Basic Surgical Skills. Roger Kneebone, MD and David Apsimon, University of Bath, UK

Interactive Animation in Medical Education Using Macromedia's Flash. Kent Judkins, Louisiana State Univ., Shreveport, LA

NeuroView: A Computer-Based Learning Tool for Neuroanatomy.

Donna J. Forbes, PhD and Arlen R. Severson, PhD, University of Minnesota-Duluth School of Medicine, Duluth, MN

Blending the Old and the New. Kevin P. Kilgore, MD, Regions Hospital, Dept. of Emergency Medicine, St. Paul, MN

Secure Delivery of Web-Based Teaching Resources Using Smartcards and Public Key Cryptography.

Graham Phillips, Clinical and Biomedical Computing Unit, Cambridge University Clinical School, England

skills.fp3 - An Editable Internet-Database for Media about the Physical Medical Examination

Christof Daetwyler, MD, AUM, IAWF, University of Berne, Switzerland

QuizGenerator: Creating and Viewing Online Interactive Quizzes.

Adnan Abilwani, Susan Roberts, Spencer S. Eccles Health Sciences Library, University of Utah, Salt Lake City, UT

QuizGenerator: A Server-Side Tool for Creating and Viewing Online Interactive Quizzes.

Susan Roberts, Tyler Anderson, Spencer S. Eccles Health Sciences Library, University of Utah

Histology Course: An Outline and Atlas. Hue-lee Kaung, PhD, Case Western Reserve University, Cleveland, OH

Using Virtual 3-D Reality for Teaching Cardiac Surgery.

P Engels, M Preisack, M Schefer, O Goedje, R Friedl, A Hannekum, Heart Surgery, University of Ulm, Germany

Anatomy Revealed.

Roy Schneider, Dennis Morse, PhD, Mark Hankin, PhD, and Carol Bennett Clarke PhD, Medical College of Ohio, Toledo, OH

The Use of the Web to Teach Students in an Interactive Manner How to Design and Analyze a Laboratory Experiment.

Jean D. Deupree, PhD, University of Nebraska Medical Center, Omaha, NE

HistoQuest: An Interactive Computer Program for Teaching Human Histology.

David A. Begg, Marc Brisbourne, Susan Chin and Murray Diduck, University of Alberta, Edmonton, AB, Canada

The Harvey Project: Open Course Development of Rich Content for Physiology.

Robert S. Stephenson, Wayne State University, Detroit, MI

Lipids Online: Resources for Educators and Academics.

Michael Fordis, Doug Alexander, and John Searle, Baylor College of Medicine, Houston, TX

A Tool for XML-Based Image Annotation. William B. Lober, MD, University of Washington, Seattle, WA

Shareable Web-Based Case Bank for All Health Sciences Educators. Sharon Dennis, Library, Univ. Utah, Salt Lake City, UT

Tutorial Development with Metacard. John T. Silver, Ann Bell, Grant Soames, University of Tennessee Center for Health Sci, Memphis, TN and David Muram, Oxford University Press, NY

Using Flash to Publish a Brain Atlas. Derek Cowan and Larry Stensaas, Eccles Library and Dept. of Physiology, Univ. of Utah.

The Peripheral Nervous System on CD-ROM and Other Programs Developed for Curricular Reform and Facility Renovation.

James L. Culberson, Jeffrey Altemus and Richard Dey, Department of Anatomy, Univ. West Virginia, Morgantown, VA

6:00 - 9:00 p.m. Welcome Dinner---Thursday, June 29, 2000

Red Butte Garden Arboretum adjacent to the university and overlooking the city

Tour the gardens anytime after 5 p.m. and join together at 6:00 p.m. for drinks (soda, juice, wine and beer) and buffet dinner, 7:00 p.m. Everyone is encouraged to attend. Cost for attendees is \$10.00. Cost for Guests is \$35.00. Advise us when you register so we can have one of the best caterers in Salt Lake City prepare the right amount of food. The variety of foods will easily satisfy our vegetarians. **Sign up when you register for the meeting.** You may walk and buses will be provided.

FRIDAY, JUNE 30, 2000: AUDITORIUM PROGRAM

Skaggs Hall Auditorium, College of Pharmacy

- 8:30 a.m. KEYNOTE: Next Generation Internet Applications in Healthcare: Promises and Prospects.**
Paul Fontelo, MD, Michael Gill, Craig Locatis, PhD, National Library of Medicine, Bethesda, MD
Examples of Projects that are currently in their early phases of research will be presented with an emphasis on the scalability of these applications in a nationwide setting.
- 9:10 a.m. Using Multimedia to Teach Procedural Skills.**
Robert Wigton, MD, Thomas Tape, MD, Teonne Daye, University of Nebraska College of Medicine, Omaha, NE
- 9:30 a.m. Controlled Trial of a Web-Based Virtual Reality Program in Teaching Diagnosis Skills to Medical Students.**
Julie A. Grundman, Robert S. Wigton, MD, Devin Nickol, University of Nebraska Medical Center, Omaha, NE
- 9:50 a.m. Baggott Award: Presented by Sharon Dennis**
- 10:00 a.m. Coffee Break**
- 10:30 a.m. "Headache Interactive" History Taking Interactive.** Christof Daetwyler, MD, University of Berne, Switzerland
- 10:50 a.m. Integrating Multimedia CD-ROMs into the Teaching of Clinical Anatomy.** Peter H. Abrahams, R. Jordan, C.V. Rao, R. Ambrose, St. Georges University, Grenada and St. Vincent, West Indies
- 11:10 a.m. "The Tale of Tommy's Testing": Weaving New Knowledge into an Old Shell.** Sharon Levy, MD, John Knight, MD, Carolyn Frazer, MD, S. Jean Emans, MD, Sharon Dennis, MS, Valeri Craigle, BS, Harvard Medical School, Children's Hospital, Boston and Eccles Health Sciences Library, Univ. Utah, Salt Lake City, UT
- 11:30 a.m. Didactic Elements in a Web-Based and Case-Oriented Medical Training System.** Claudia Scheuerer, Jochen Bernauer, Torsten Illmann, Alke Martens, Alexander Seitz, Michael Weber, University of Ulm, Germany
- 12:00 p.m. Slice of Life Student Software Award Winner with Demonstration**
- 12:15 p.m. LUNCH**

Please SET UP YOUR DEMONSTRATIONS between 1:00-2:00 p.m., unless you are leading a breakout session. NO FOOD in the library. You are requested to be present from 2:00 – 3:30 or 3:30 – 5:00. This will give each demonstrator time to see the other demonstrations. Demonstrators are expected to be in the demonstration area even if not at their assigned location, so people can talk to them. See final program for your day as some switching between Thursday and Friday may have occurred.

BREAK-OUT SESSIONS: 12:45-1:45 p.m.

- 12:45 p.m. *Motivating the Faculty: What it Takes to Move a Course into Cyberspace.***
Debra Moulton, MAMS and Robert J. McAuley, PhD, William G. Hendrickson, PhD, Univ. Illinois, Chicago, IL
- 12:45 p.m. *Advantages of Web vs. MS Access or Visual Basic Front-End Database Clients for Assessment and Reporting.***
Scott Beadenkopf, MCP, Hahnemann University, Philadelphia, PA
- 12:45 p.m. *Integration of Computer-Based Multimedia into the Curriculum.***
Linda Lanier, MD, Gold Standard Multimedia and University of Florida, Gainesville, FL
- 12:45 p.m. *PDAs: Sharing Ideas and Experiences with Hand-Held Devices and Their Clinical Uses.***
Elise Eisenberg, DDS, NYU Dental School, NY, NY and Chris Kreis, MD, Harvard University, Boston, MA
- 12:45 p.m. *Technical Issues Relating to Wireless Live Video Broadcasting.*** John C. Pearson
- 12:45 p.m. *Integrating Methods, Facilities, and Curriculum.*** Jeffrey Altemus, PhD, Univ. West Virginia, Morgantown, VA
- 12:45 p.m. *Wireless Application Protocol (WAP): You Can Access the Web on Your Cell Phone. How Can this New Technology be Used in Medical Education.*** Sharon Dennis, MLS, Eccles Library, University of Utah.

FRIDAY, JUNE 30, SHOW AND TELL/DEMONSTRATIONS

2:00 P.M. – 5:00 P.M. Lower Level, Eccles Health Sciences Library

Demonstrations by the following morning presenters will be also be available although not listed below: Robert Wigton, MD, Peter Abrahams, MD, Sharon Levy, MD, Claudia Scheuerer, Julie A. Grundman

Wireless Live Video Streaming From Desktop Computers Using Sorenson Broadcaster.

John C. Pearson, PhD, Gary L. Nieder, PhD, and Mark Anderson, BT, Wright State University, School of Medicine, Dayton OH

Applications of Hand-Held Personal Computers in Healthcare.

Hisham (Sam) Mahrous, MBA, PhD and George E. MacKinnon III, MS, RPh, Midwestern University, Glendale, AZ

OSCAR: OSCE Assessment and Reporting Database.

Scott Beadenkopf, Diane Cohen, and Dennis Novack, MD, MCP Hahnemann University

Online Atlas for Introductory Courses in Neuroscience.

John I. Johnson, PhD and Keith D. Sudheimer, Michigan State University, East Lansing, MI

Functional Neuroanatomy CD-ROM: A Virtual Laboratory.

Patricia A. Stewart, A. Agur, B. Liebgott, M. Wiley and D. Mikulis, Department of Surgery, University of Toronto, ON, Canada.

Opioid Management of Pain: Web-Based Tutorials for Second-Year and Third-Year Medical Students.

Kathryn L. Lovell, Karen S. Ogle, Heather Zalusk, Michigan State University College of Human Medicine, East Lansing, MI

You Make the Diagnosis: A Combined Standardized Patient and Virtual Pediatric Physical Examination.

Robin Deterding, MD; Carol Kamin EdD; Monica Younger, MS; Ted Wade, PhD, University of Colorado, Denver, CO

Interactive Computer-Aided Assessment, An Adjunct to Behavioral Science Courses.

Iverson C. Bell Jr., MD, Kim Sutton PhD, Perry Riggins, Morehouse School of Medicine, Atlanta, GA

CD-ROM and Web-Based Self-Learning Modules in Geriatric Medicine Have Extended the Classroom.

Thomas A. Teasdale, DPH, Huffington Center on Aging, Baylor College of Medicine, Houston, TX

MacOS X Server, NetBoot, QuickTime Streaming, AppleScript; How do they fit together in the Classroom or Learning Resource Center? Is the Zero Administration Classroom Here Yet? Marc M. Batschkus, MD, IBE, University of Munich, Germany

Using Vision to Think: Development of Visualization Media for Human Anatomy.

Ewa Soliz, Ahmet Sinav, Richard T. Ambron, Pat Molholt, Curriculum Design Studio, Columbia University, NY

A FileMaker Pro Web-Based Interface Module to Enhance Patient-Care Services in Andrology.

Jannie Woo, PhD and Siddhartha Sarkar, PhD, SUNY Upstate Medical University, Syracuse, NY

QTVR Electron Microscopy on Web and CD. Jens Dørup, Michael Schacht Hansen, University of Aarhus, Denmark

Beyond Heart Sounds -The Interactive Cardiac Exam.

John Michael Criley, MD, Harbor-UCLA Medical Center, Los Angeles and David and Stuart Criley, Armus Corp., Burlingame, CA

One Stop Shopping for Creating Health Sciences Educational Web Sites: Prototype of Java-Based Integrated Template

Sharon Dennis, Eccles Health Sciences Library, University of Utah, Salt Lake City, UT

Designing a Cold Fusion Database for Image Contributors Incorporating IMS and XML Standards.

Sebastian Uijtdehaage, PhD, Instructional Design and Technology Unit, UCLA School of Medicine, Los Angeles, CA

The Jefferson DNA Project. Ken M. Williams, Richard H. Hallick, Ph.D., Madeleine La Pointe, University of Arizona, Tucson, AZ

Using Flash 4 Animations to Teach Basic Concepts in Health Care Education.

Carlos A. C. Baptista, MD, PhD, and Susan W. G. Batten, Medical College of Ohio, Department of Pathology, Toledo, OH

Distance Learning with VirtualUnknown:Microbiology.

Gary R. Wilson, McMurry University and Henry L. Outland III, University of Texas at Dallas, TX

XML and IMS and LRN. What Does This Alphabet Mean for Designing and Defining Software?

Chris Candler, MD, University of Oklahoma College of Medicine, Oklahoma City, OK

Using Flash for Interactive Animation (HyperBrain). Derek Cowan, Univ. of Utah, Eccles Health Sciences Library, Salt Lake City

A Webtextbook for the Teaching of Radiology Concepts and Interpretation to Senior Medical Students and Interns.

Stan G. Alexander, MD, Dept. Radiology, Indiana University School of Medicine, Indianapolis, IN

The Educational Resources Web and Computer Aided Learning (CAL) Reviews: An Integrated Web-Based Medical Education Environment for Students at Cambridge University, England.

Kim Whittlestone, BVetMed, Clinical & Biomedical Computing Unit, Cambridge University Clinical School, England

Learning Occupational Medicine via the Internet.

Inga Hege, Katja Radon, Martin Dugas, Dennis Nowak, Ludwig-Maximilians-University, Munich, Germany

Inside the Outside: Viewing Anatomical Spaces with Macropanoramic QuickTime VR.

Gary L. Nieder and Mark D. Anderson, Wright State University School of Medicine, Dayton OH

SATURDAY, JULY 1, 2000: AUDITORIUM PROGRAM

9:00 a.m. KEYNOTE: *The Medical Internet.*

George Lundberg, MD, Editor-in-Chief, Medscape, Inc., New York, NY

A pathologist by training, our speaker left academia to become editor-in-chief for the AMA including various multimedia and Internet products as well as the Editor of JAMA. In 1999, after 17 years with the AMA, he became the Editor-in-Chief of Medscape, the world's leading site for medical information on the net as well as founding Editor-in-Chief of both Medscape General Medicine and CBS HealthWatch.com

9:40 a.m. *The Educational Resources Web and Computer Aided Learning Reviews: An Integrated Web-Based Medical Education Environment for Students at Cambridge University, England.*

Kim Whittlestone, BVetMed, Clinical & Biomedical Computing Unit, Cambridge University Clinical School, UK

10:00 a.m. *Building Humanizing Elements into Technology-Based Learning.*

Denice Warren, Program in Integrative Medicine, University of Arizona, Tucson, AZ

10:20 a.m. *Coffee Break*

10:40 a.m. *Presenting at a Conference When you are 2000 Miles Away.*

Sonia Hutton-Taylor, MBBS FRCS FRCOphth DO, The Stables Northington Farm Overton Hants, England

11:00 a.m. *Virtual Problem-Based Learning with Digital Video Cases.* Carol Kamin, EdD, Robin Deterding, MD, Monica Younger, MS, and Ted Wade, PhD, University of Colorado School of Medicine, Denver, CO

11:20 a.m. *A Webtextbook for the Teaching of Radiology Concepts to Senior Medical Students and Interns.*

Stan G. Alexander, MD, Dept. Radiology, Indiana University School of Medicine, Indianapolis, IN

11:40 a.m. *Laparoscopic Operative Setup Training: A Virtual Reality Approach at the University of Kentucky.*

Michael J. Mastrangelo Jr, MD, et al., Dept. Surgery, University of Kentucky College of Medicine, Lexington, KY

12:00 p.m. *Learning Occupational Medicine via the Internet.*

Inga Hege, Katja Radon, Martin Dugas, Dennis Nowak, University of Munich, Germany

12:20 p.m. *Welcome to Munich 2001, August 1-4, 2001*

Martin Adler and Marc Batschkus, Ludwig-Maximilians-University, Munich, Germany

12:30 p.m. *Closing Remarks, Acknowledgments, Extravaganza Logistics.*

Suzanne S. Stensaas, PhD, University of Utah, Salt Lake City, UT

1:00 p.m. *Bus departs for Grand Extravaganza from University Guest House.*

The Traditional Grand Extravaganza: An absolute must and really part of the Workshop.

SATURDAY, JULY 1, 2000 *Experience the Wasatch Mountains you have been seeing all week!!*

Save on airfare and stay over Saturday night. Explore the beautiful Wasatch Mountains. Lunch will be provided on the bus. We will return late to the hotel ... so avoid early Sunday morning flights. Cost: \$65/person. Guests Welcome. **Sign up when you register** for the meeting so you will not be disappointed. This event is **not included** with workshop registration. Sign up early to help us plan. The event will depend on site availability which can only be booked 60 days in advance. We will either go to Little Cottonwood Canyon or Provo Canyon. In the former we will hike, mountain bike, ride the tram and/or just sit in the sun before a sumptuous buffet dinner. In Provo Canyon we will explore Timpanogos Caves National Monument with a Ranger (1 mile uphill walk) or for the less hearty, Cascade Springs. Both groups will end up at Sundance Resort for a buffet dinner followed by "Fiddler on the Roof" in an outdoor theater. Both events are casual and require a warm jacket and long pants at night and shorts in the daytime. Watch the Web site for more information.

Post Conference 5-Day Rafting/Camping Trip

Yampa River in Dinosaur National Monument, July 3-7, 2000.

You should not plan to depart SLC until the 8th unless you have a midnight red-eye on the 7th or are driving. The price for the trip is \$592/person. Deposit of \$250 needed. Balance 60 days before the trip. Do not delay in booking. National Park limits the size to 25. There are 17 spots left. See the Web site for more info <http://www.oars.com>. You must make your own arrangements. Please notify Suzanne Stensaas if you sign up. Contact person with OARS (the outfitter) is Kelley, kellezy@oars.com. Her phone is 1-800-346-6277 ext. 721. We are called the Slice of Life Group. More details about this trip are on the Web site. Those who did Westwater Canyon in 1994 can tell you about the fun we had.

CHES/Slice of Life Workshop Registration Form

PERSONAL DATA – PLEASE TYPE OR REGISTER ONLINE http://www.slice.gsm.com/register.htm			
NAME (<i>Last Name, First Name</i>)		WORK PHONE	
PROFESSIONAL AFFILIATION		FAX	
MAILING ADDRESS (Number & Street)			
		E-MAIL:	
CITY/COUNTRY	STATE	ZIP	HOME PHONE

Workshop Registration (Limited to 250)	<i>COST</i>	<i>DATE</i>	<i>FEE PAID</i>
Slice of Life Workshop <i>Until</i> May 30	\$295	June 29 – July 1	
Slice of Life Workshop Student Rate <i>Until</i> May 30	\$195	June 29 – July 1	
Slice of Life Workshop <i>After</i> May 30	\$345	June 29 – July 1	
Welcome Dinner at Red Butte Gardens and Arboretum	\$10	June 29	
Welcome Dinner, Guest Tickets	\$35	June 29	
The Grand Extravaganza in the Wasatch Mountains	\$65	July 1	

Pre-workshops Registration	<i>Conf. Registrants/Non Registrants</i>
SMIL: Synchronized Multimedia Integrative Language	\$85/\$110 June 27 a.m.
QT Java	\$75/100 June 27 p.m.
QTPro Player Video Editing Basics	\$85/\$110 June 27 a.m.
LiveStage Pro Interactive QT movies	\$75/\$100 June 27 p.m.
Beginning Javascript	\$150/\$200 June 27 all day
Director 7.0	\$150/\$200 June 27 all day
Finding Rich Content for Medical Education	\$75/\$100 June 27 p.m.
Interactive DB Driven Web Pages	\$85/\$110 June 27 a.m.
Editing and Authoring DVD	\$85/\$110 June 27 a.m.
Automating Web Evaluation Forms	\$150/\$200 June 28 all day
QTVR: QuickTime Virtual Reality	\$150/\$200 June 28 all day
Online Courseware Development Tools	\$85/\$110 June 28 a.m.
Cognition and Good Design: Analysis and Redesign	\$75/\$100 June 28 p.m.
XML: Extended Markup Language	\$150/\$200 June 28 all day
ASP: Active Server Pages	\$150/\$200 June 28 all day
LXR Test Bank Software	\$75/\$100 June 28 p.m.

PAYMENT	TOTAL FEES PAID \$
<input type="checkbox"/> Check or Money Order (<i>Make checks payable to: Gold Standard Multimedia</i>) <input type="checkbox"/> Visa <input type="checkbox"/> Mastercard <input type="checkbox"/> American Express	
Card#	Exp. Date
Exact Name Card Holder	Signature Card Holder
Date	
<i>Please indicate any special physical or dietary needs:</i>	

Mail or fax completed form to:
 Leah Smith, Gold Standard Multimedia Inc., 320 West Kennedy Blvd, Suite 400, Tampa, FL 33606, Fax (813)259-1585, Tel (813) 258-4747

CANCELLATION POLICY:
 Cancellations accepted through June 13; a \$50 administrative fee will be retained for cancellations.

CALL FOR SUBMISSIONS FOR THE SLICE OF LIFE 11TH ANNUAL \$1000 STUDENT SOFTWARE AWARD
Deadline is JUNE 1, 2000. A letter from the faculty person involved with the project, a copy of the software and instructions on how to use it should be submitted to Suzanne Stensaas. The submission does not need to use the Slice of Life or Slice of Brain videodiscs and may run on any platform and be in any language. Submission form is on the web site. **Mail to :** Suzanne S. Stensaas PhD, Eccles Health Sciences Library, 10 North 1900 East, Salt Lake City, UT 84112-5890