Big Sky Country, “The Last Best Place”, “The Treasure State”… Just saying all these descriptive phrases extolling the virtues of Montana is exhilarating and exciting. Exhilarating and exciting are also fitting descriptions for the 62nd Annual Conference of the Association of Medical Illustrators. The Planning Committees have assembled a unique blend of Rocky Mountain science, New York City business and world-class illustration techniques, to make the next few days filled with insight and inspiration. Connect with your colleagues in this vibrant atmosphere and fire up your creative spirit for another year.

This year we are pleased to have the AMI meeting overlap and co-locate with the Guild of Natural Science Illustrators (GNSI) meeting July 15 – 21, 2007, so you can double up on your professional enrichment opportunities. The AMI extends a very warm welcome to those GNSI members attending our workshops and meeting events.

We hope you top off your glass full of knowledge at the rousing Barn Party on Saturday night. We are pleased that so many of you have pre- or post-meeting vacation plans to enjoy the magnificent scenery and outdoor activities. Have fun, learn a lot and take home wonderful memories.

We will look forward to greeting you at the Salon Opening.

Pat Thomas, CMI, FAMI  
President, Association of Medical Illustrators 2006-7

Pam Little, MA, CMI, FAMI  
Montana 2007 Meeting Coordinator

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The AMI Montana Committee is supporting responsible use of forest resources by printing on a verified post-consumer fiber paper. Our program book is printed on EverGreen 30PC, paper that is produced with 30% post-consumer fibers, which meets EPA guidelines for recycled papers is ECF (Elemental Chlorine Free) and all Post-consumer fibers are PCF (Processed Chlorine Free).
The Guild of Natural Science Illustrators
The GNSI conference is at MSU from July 15 - 21, 2007.

Featured Presenters and Speakers

→ **Peter Hassrick**, art historian, author and museum curator, discusses his latest book, *Drawn to Yellowstone: Artists in America’s First National Park*.

→ **Andrew Berger**, attorney, and **Teri McDermot**, medical illustrator, will steer us around “Agreements From Heaven or Hell.”

→ **David Bolinsky**, medical director of XVIVO Scientific Animation, will describe the creation of the award-winning animation *The Inner Life of a Cell*.

→ **Elizabeth Fischer**, with the Electron Microscopy Unit at the NIH NIAID’s Rocky Mountain Laboratory in Hamilton, MT, will talk about “Developing Applications of Electron Microscopy”.

→ **Steven Heller**, *New York Times* art director and co-chair of the MFA Designer as Author program at the School of Visual Arts, will videoconference in from NYC to share insights from his book, *Inside the Business of Illustration*.

→ **Betsy Palay**, medical illustrator, moderates the popular Futures Forum, “Medical Illustration 2.0: The Next Generation”.

→ **Charles Falco**, physics professor in optics, will describe, “The Science of Optics: The History of Art,” his collaboration with David Hockney and their evidence that artists from the early Renaissance used optical devices in the creation of their artwork.

→ **Kip Carter**, **Robert Morreale**, **Jeff Loerch** and **Tom Weinzerl**, academic department service center directors, will talk about problems faced and solutions found in their “Institutional Departments Panel Discussion.”

AMI Awards Banquet
A night of networking and socializing with colleagues as awards are given for some of 2007’s best biomedical visualization. Thursday, 6:00 to 9:00 pm

Salon
The Salon will be displayed in the Strand Union Building (SUB). Two-dimensional artwork will be located in the SUB ballrooms and animation, multimedia, fine art, books and models will be housed in the SUB Leigh Lounge.

The Salon Opening Reception, a unique opportunity to view the newest in medical art while mingling with members, will be held at SUB, from 6:00 to 9:00 pm on Wednesday, July 18.

Salon Schedule:
Wednesday, 6:00 – 9:00 pm Opening Reception
Thursday and Friday, 8:00 am – 7:00 pm
Saturday, 8:00 am – 2:00 pm

Barn Social and Vesalius Trust Live Auction
Join us for a fun, farewell party at MSU’s S.O.B. (Save Our Barn). Saturday, 6:00 to 10:00 pm

Client/Employer Services *(Pre-registration Required)*
Person to Person for the 62nd Annual Meeting in Bozeman. A format for initiating communication between prospective clients and illustrators is strictly a benefit to members, meeting attendees and clients of the AMI wishing to conduct interviews concerning prospective employment positions available.

Currently scheduled clients/employers:
Nucleus Medical Art: Thursday, July 19th from 1:00 to 5:00 pm
medmovie.com: Friday, July 20th from 1:00 to 5:00 pm

Registration Desk
Tuesday 3:00 – 6:00 pm
Wednesday-Thursday 7:00 am – 5:00 pm
Friday-Saturday 7:00 am – 4:00 pm
Location: SUB Ask Us Foyer

Board of Governor’s Annual Meeting
Wednesday 8:00 am – 5:00 pm
Location: SUB Room 275
Sunday 8:00 am – noon

Artist Rights/ARC2 Committee Meeting
Thursday 12:30 – 1:30 pm
Location: Gaines Hall 33

Accreditation Committee Meeting
Thursday 12:30 – 1:30 pm
Location: Roberts Hall 301

Meeting Planning Council:
**Anna Altemus**
**Mike Belknap**
**Joan Tycko**
**Kip Carter**
**Pat Thomas**
**Marcia Hartsock**

Meeting Committee Members:
**Pam Little** Meeting Coordinator/Program Chair
Amber Gehl, Zina Deretsky, Kristine Johnson PR
Jennifer Fairman, Wayne Heim Website and logo design, artwork
Mary Jordan, Lynn Kitagawa Workshops
Emily Shaw, Lynn Kitagawa Techniques Showcase
Crista Mason, Jane Watson Salon Hanging
Todd Buck, Nicole Manning Salon Judging
Daniel Muller Salon anim/interactive entry compilation
Jill Gregory, Ling H. Yang Awards
Jodie Jenkinson, Lori Messenger, Jill Rhead Professional Exhibits

Other volunteers:
**Jin Yoon**, **Sarah Samaroo**, and all of the wonderful Students

AMI HQ Staff:
**Vanessa Reilly**, Executive Director AMI,
**Allen Marketing and Management**
Kate Counter, Meeting Manager, Allen Press, Inc.
**WEDNESDAY**

**pre-conference workshops**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>8:00 am</td>
<td>H1: First Timer’s (room: sub 275)</td>
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<tr>
<td>9:00 am</td>
<td>H2: PrePress (room: Gaines Hall 33)</td>
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<tr>
<td>10:00 am</td>
<td>H4: Mudbox (room: Reid 303 pc computer lab)</td>
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<tr>
<td>11:00 am</td>
<td>H5: The Ear, Temporal Bone, &amp; Skull Base (room: Roberts Hall 113)</td>
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</tbody>
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**Salon open 8:00 am – 7:00 pm**

**6:00 – 9:00 pm**

Salon Opening Reception

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**THURSDAY**

**conference general sessions in the SUB**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>8:00 am</td>
<td>welcome (room: Ballroom A1)</td>
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<tr>
<td>9:00 am</td>
<td>plenary 1 (room: Ballroom A1) <em>Drawn to Yellowstone: Artists in America’s First National Park</em></td>
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<tr>
<td>10:00 am</td>
<td>break</td>
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<tr>
<td>11:00 am</td>
<td>plenary 2 (room: Ballroom A1) <em>Virtually™ - Virtual Eye</em></td>
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<tr>
<td>12:00 noon</td>
<td>break</td>
</tr>
<tr>
<td>1:00 pm</td>
<td>plenary 3 (room: Ballroom A1) <em>Topics in Interventional Cardiology</em></td>
</tr>
<tr>
<td>2:00 pm</td>
<td>open lunch and committee meetings</td>
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<tr>
<td>3:00 pm</td>
<td>concurrent 1 (room: 276) <em>Agreements From Heaven or Hell - You Choose!</em></td>
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<tr>
<td>4:00 pm</td>
<td>concurrent 2 (room: Ballroom A1) <em>The Making of the Mayo Exhibit Scalpel to Sketch</em></td>
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<tr>
<td>5:00 pm</td>
<td>concurrent 3 (room: 276) <em>Rocky Mountain Labs</em></td>
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<tr>
<td>6:00 pm</td>
<td>break</td>
</tr>
<tr>
<td>7:00 pm</td>
<td>concurrent 4 (room: 275) <em>What Do You Really Know About Copyrights?</em></td>
</tr>
<tr>
<td>8:00 pm</td>
<td>concurrent 5 (room: Ballroom A1) <em>The Development of UIC Virtually™</em></td>
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<tr>
<td>9:00 pm</td>
<td>concurrent 6 (room: 276) <em>Developing Applications of Electron Microscopy</em></td>
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<tr>
<td>10:00 pm</td>
<td>concurrent 7 (room: 276) <em>Short Topics in Business</em></td>
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<tr>
<td>11:00 pm</td>
<td>concurrent 8 (room: 276) <em>Short Topics in Art</em></td>
</tr>
<tr>
<td>12:00 noon</td>
<td>concurrent 9 (room: Ballroom A1) <em>Medical Applications of Biomfilm Technology</em></td>
</tr>
<tr>
<td>1:00 pm</td>
<td>break</td>
</tr>
<tr>
<td>2:00 pm</td>
<td>6:00 – 9:00 pm (room: strand union building: Ballroom BCD) <em>Awards Banquet</em></td>
</tr>
</tbody>
</table>
**FRIDAY**

**8:00 am**
- announcements | room: Ballroom A

**9:00 am**
- plenary 4 | room: Ballroom A
*Inside the Business of Illustration*

**10:00 am**
- break

**11:00 am**
- plenary 5 | room: Ballroom A
*Inner Life of a Cell*

**noon**
- I room: Hannon Hall Cafeteria
*Business Meeting* (lunch is provided)

**1:00 pm**
- members forum | room: Hannon Hall Cafeteria
*Talk Back to the Board of Governors*

**2:00 pm**
- break

**3:00 pm**
- I room: Ballroom A
*Adobe® Presents: Creative Suite 3*

**4:00 pm**
- break

**5:00 pm**
- I room: Ballroom BCD
*Techniques Showcase & Vesalius Trust Silent Auction*

**6:00 pm**
- Free evening to explore Bozeman Alumni activities

**SATURDAY**

**8:00 am**
- announcements | room: Ballroom A

**9:00 am**
- plenary 6 | room: Ballroom A
*The Science of Optics, The History of Art*

**10:00 am**
- break

**11:00 am**
- plenary 7 | room: Ballroom A
*Medical Illustration 2.0: The Next Generation*

**noon**
- I room: Ballroom BCD
*Presidential Luncheon* (lunch is provided)

**1:00 pm**
- break

**2:00 pm**
- concurrent 10 | room: Ballroom A
*Art & Science of the Motorcycle*

**3:00 pm**
- concurrent 11 | room: 276
*Medical Legal Business Practices*

**4:00 pm**
- concurrent 12 | room: 275
*Surgical Planning*

**5:00 pm**
- concurrent 13 | room: Ballroom A
*Visual Effects in Biomedical Animation*

**6:00 pm**
- concurrent 14 | room: 276
*Institutional Departments Panel Discussion*

**7:00 pm**
- concurrent 15 | room: 275
*Jewels of the Jungle: A Documentary Film*

**8:00 pm**
- concurrent 16 | room: 276
*New Medical-Legal Presentation Techniques*

**9:00 pm**
- concurrent 17 | room: Ballroom B
*Vesalian Scholars*

**10:00 pm**
- break

**6:00 – 10:00 pm**
- I S.O.B. (save our barn)
*Barn Social with Vesalius Trust Live Auction*
First Timer’s  
*Emily Shaw, MA, CMI and Megan Bluhm Foldenauer, MA*

This session will introduce students, new AMI members and all others attending the AMI meeting for the first time to each other, the AMI, the Annual Meeting, AMI Headquarters, the AMI Board of Governors and much more. Attendees will gain a sense of appreciation for the AMI and how it can facilitate advancement in a medical illustrator’s career. AMI members will discuss reasons for becoming involved in the AMI and will give presentations on their careers as medical illustrators, showing pieces from their student and professional portfolios, while giving insight into their development as professional artists.

**PrePress**  
*Bruce Barnhart*

This workshop will demystify prepress issues such as color management, image resolution, fonts and metadata.  

*About the Instructor*  
With over twenty years experience in design and print media, Bruce brings an enlightened real world approach to the use and role of today’s technology. From digital cameras to direct to plate, from scanning to application use, he has experienced first-hand the use of digital technology to create and reproduce designs and imagery. With a fine art design degree from Colorado State University, Bruce has worked for small and large firms, designing and producing material for reproduction from global sources. Bruce, a full-time instructor at MSU, specializes in helping artists and designers to bring their artwork and dreams into the digital world.

**Molecular Visualization: From raw data to polished presentation**  
*Graham Johnson, MA, CMI, PhD candidate*

This workshop will cover principals of molecular biology, ranging from organic chemistry to structural biology and provide a tutorial of software for viewing, exporting and rendering molecular models with manipulation in Cinema 4D.

**Workshop H4**  
8:00 am - noon  
*PC Computer Lab*  
0.35 CEU Art  

About the Instructor  

**Mudbox**  
*Cameron Slayden, MS*

This seminar will introduce attendees to the new modeling tool Mudbox, and requires a basic understanding of 3D modeling. Mudbox works at ultra-high resolutions and is far simpler to use than Zbrush, and models in real 3D space. Attendees will learn how to produce photo-realistic organic models in very little time using this powerful program.

*About the Instructor*  
Cameron Slayden is a graduate of the Medical Illustration Graduate Program at the Medical College of Georgia and is the director of Medical and Scientific Animation and Illustration of Cosmocyte, Inc.

**Workshop H5**  
8:00 am - noon  
*0.35 CEU Business*

**The Ear, Temporal Bone, and Skull Base: An exploration of surgical anatomy, and the development of an immersive simulation environment**  
*Nikolas Blevins, MD*

The ear, temporal bone, and skull base are as anatomically complex as any region of the body. Creating a mental construct of the three-dimensional interrelationships is difficult, and poses a challenge to anyone trying to teach or learn related surgical techniques. This workshop will discuss the anatomy of this complex region, and will present a novel approach to surgical education through the use of immersive simulation technology.

*The workshop will cover:*

- Surgical anatomy of the ear, temporal bone, and skull base as visualized by interactive 3D models, radiology images,
surgical video, and illustrations.
• An overview of the normal function of related structures
• Clinically relevant aspects of structural geometry as it impacts common surgical approaches.
• Design and utility of the surgical simulator developed at Sanford to simulate temporal bone surgery.
• How simulation technology can be applied more generally towards more effective surgical education and anatomic understanding.

About the Instructor Nikolas Blevins, MD, is an Associate Professor at Stanford University in the Department of Otolaryngology - Head and Neck Surgery. He is the Division Chief of Otology and Neurotology, and is the Director of the Stanford Cochlear Implant Center. He has a particular research interest in the use of computer modeling and surgical simulation as applied to teaching the anatomy and surgery of the ear and temporal bone.

Workshop F6
8:00 am - 5:00 pm
0.7 CEU Art

Painter: Tips and Techniques
Bill Andrews, CMI and Don Seegmiller

This session will feature extensive live demos with accompanying handout/take-away materials. Don will focus on Painter X features, tips and techniques that have a universal appeal to artists and Bill will focus on those tips and techniques especially useful for the medical illustrator. This demonstration of this powerful digital painting tool will inspire enthusiasm in new Painter users, and experienced Painter users will benefit from watching a new workflow and techniques.

About the Instructor Don is an instructor of senior level Illustration courses, traditional head painting, figure drawing, and digital painting for the Department of Visual Design at Brigham Young University and was the art director of Saffire Corporation. He has written tutorials for Corel Painter and his work is featured in the Painter 6, 7, 8, and IX Wow Books, Step by Step Electronic Design, Design Graphics, and both Spectrum 7 and 8. He wrote the book Digital Character Design and Painting and coauthored the book Mastering Digital 2D and 3D Art.

About the Instructor Bill began his professional career as a medical illustrator at the University of Arizona Health Science Center at Tucson before moving to Houston in 1981 to work in the Texas Medical Center. He is an Associate Professor at MCG and serves as Education Program Coordinator and Gallery Director. He has served as President of the AMI and on the Board of Governors, and is a Fellow of the AMI.

Workshop F7
8:00 am - 5:00 pm
Hyalite Canyon, Hood Creek Campground
0.7 CEU Art

Landscape Painting en Plein Air
Deb Ravin, MFA, CMI

This workshop will focus on painting outdoors from life. With its endless views of mountains, prairies, and rivers, and its changing skies and variety of cloud formations, the vast “Big Sky” country provides a great opportunity to work beyond merely making a picture. Learn how to see shapes rather than objects, use atmospheric perspective to create depth, and design compositions that draw the viewer into the painting. Capture the moment and express what you see and feel on canvas.

About the Instructor Deb has been painting “en plein air” since moving to Phoenix, Arizona in 1989. Deb, a graduate of the University of Michigan program in Medical & Biological Illustration, teaches at the Desert Botanical Garden Certificate Program in Botanical Illustration.

6:00 - 9:00 pm
Strand Union Building

Salon Opening Reception

Special thanks to Wacom, Skymatter (Mudbox), Maxon (Cinema 4D) and Corel (Painter) for their generous support of the Workshop sessions with in-kind donations of product use and software.
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
<th>Description</th>
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</table>
| 8:30 – 9:30 am | Plenary 1                                                               | 0.1 CEU Art                                                                | **Drawn to Yellowstone: Artists in America’s First National Park**  
Peter Hassrick, MA  
In this informative session based on his book, *Drawn to Yellowstone: Artists in America’s First National Park*, Mr. Hassrick will discuss how in the 19th century, two of America’s most prominent landscape painters, Thomas Moran and Albert Bierstadt, battled for ascendancy in the eyes of the nation’s public, its patrons and its critics. Much of that battle took place over the Yellowstone region and over who should best present their vision of its wonders to the world. The story of their conflict is the story of national expectations during the post-Civil War era, of divergent cultural traditions contesting for prominence and of the fierce competition between artists for patronage and a place in history.  
*Peter Hassrick* is Director of the Institute of Western American Art at the Denver Art Museum. Prior to that appointment, he was a writer and independent American art scholar who focused on the West. He is the Founding Director Emeritus of the Charles M. Russell Center for the Study of Art of the American West at the University of Oklahoma in Norman, Oklahoma. He served as the Director of the Buffalo Bill Historical Center in Cody and is the founding Director of The Georgia O’Keeffe Museum in Santa Fe, New Mexico. |
| 10:00 – 11:00 am | Plenary 2                                                               | 0.1 CEU Biomedical Science                                                 | **Virtually™ - Virtual Eye**  
Michael Fiscella, RPh, MPH  
Dr. Fiscella will discuss his team’s use of 3D computer modeling and virtual reality (VR) technology to create an affordable, portable VR application which provides an interactive exploration of eye anatomy showing both normal anatomy and ocular disease states, as well as a simulation of impaired vision. This interactive, stereo visualization provides a compelling experience where the participants can better understand the complex 3D structures of the eye and have a unique opportunity to experience diminished vision.  
This project was led by Professor Mary Rasmussen and Professor Richard Fiscella and funded by Allergan Inc. Collaborators include faculty and students from the Virtual Reality in Medicine Lab (VRMedLab), the Department of Biological and Health Information Sciences, the Department of Pharmacy Practice, Electronic Visualization Laboratory (EVL) and the Department of Ophthalmology and Visual Sciences at the University of Illinois at Chicago. Professor Zhuming Ai was instrumental in the realization of this project and with Professor Richard Fiscella will be leading future developments.  
*Richard G. Fiscella, RPh, MPH,* is a Clinical Professor in the Department of Pharmacy Practice and an Adjunctive Assistant Professor in the College of Medicine, Department of Ophthalmology at the University of Illinois at Chicago. He received his BS Pharmacy from UIC, College of Pharmacy and his MPH from UIC, School of Public Health.  
*Mary Rasmussen* founded the Virtual Reality in Medicine Lab (VRMedLab) at UIC in 1997. Mary directed the VRMedLab’s first project, the Virtual Temporal Bone Application—produced in collaboration with UIC’s Department of Otolaryngology. This application received the 1998 Frank Netter Award for Outstanding Contribution to Medical Education. She is also recognized for her interface design and programming for an image-processing system that predicts facial growth in children. Its application in identifying missing children resulted in the 1989 Computerworld/Smithsonian Award for Innovative Use of Information. |
| 11:30 am – 12:30 pm | Plenary 3                                                               | 0.05 CEU Art,  
0.05 CEU Biomedical Science                                                | **Topics in Interventional Cardiology**  
John Carroll, MD and Adam Hangsen, BS Biology  
Dr. Carroll will discuss his work with Medical Simulations Corp. SimSuite, and their use of simulation technology, haptics and patient data to provide advanced medical device and procedure education, training, technologies and services for nurses, technicians and physicians. Adam Hangsen will discuss his current work that involves taking cardiac CT images from patients, applying special segmentation to them, and exporting them to a 3D printer to make an accurate 3-D physical model of the patient’s heart. |
Dr. Carroll is a Full Professor of Medicine at the University of Colorado and Director of Interventional Cardiology and the Cardiac Catheterization Laboratories at University of Colorado Hospital in Denver. He has 24 years of clinical experience with board certification in internal medicine, cardiovascular and interventional cardiology. Dr. Carroll is a regional leader in the clinical community and the founder of the Cardiovascular Intervention Society of Colorado and Wyoming. He is a cum laude graduate of Princeton University and Pritzker School of Medicine of the University of Chicago, and received advanced cardiovascular training at Tufts New England Medical Center in Boston and University Hospital in Zurich.

Adam Hangsen is a Senior Professional Research Assistant at the University of Colorado Hospital’s Cardiac Catheter Laboratory, 3D Imaging Laboratory, which focuses predominantly on x-ray based cardiac imaging, creating 3D models from both angiography and cardiac CT.

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**Agreements From Heaven or Hell - You Choose!**

**Teri McDermott, MA, CMI and Andrew Berger, JD**

The importance of “paperwork” is too often overlooked. Illustrators like to create images, not draft agreements. Agreements are often as important as the wonderful work that you do. Teri J. McDermott, a veteran of many copyright disputes, and Andrew Berger, who has represented her in many of them, will demystify the legal drafting process. They will point out the red flags you should avoid in the legal language that you use, and equip you with the knowledge you need to make your Agreements enforceable when those you deal with ignore them.

Andrew Berger practices with the firm of Tannenbaum Helpern Syracuse & Hirschtritt in New York City where he focuses on protecting the rights of creators of intellectual property. He has successfully prosecuted claims for infringement on behalf of photographers, writers, illustrators and artists against, among others, Time Warner, Microsoft, Walt Disney, Hearst and Hachette Filipacchi. This year Andrew was selected as a “SuperLawyer” in intellectual property and litigation in the first New York SuperLawyers listing published by Law & Politics. Andrew is a graduate of Cornell Law School and currently serves as the President of the Cornell Law Association.

Teri J. McDermott, MA, CMI, is a Fellow and past President of the Association of Medical Illustrators. She has run her own business since 1981, and her creative excellence has garnered over 30 awards from the AMI, World Congress on Biomedical Communications, DESI, New York’s RxClub and others. She is a Founding Member of the Illustrators Partnership of America (IPA). An avid spokesperson for the power of a registered copyright, Teri teaches graduate level copyright and contract classes annually.

This presentation is supported in part by a grant from the Vesalius Trust for Visual Communication in the Health Sciences.

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**The Making of the Mayo Exhibit Scalpel to Sketch**

**Bob Morreale, MS, CMI**

For the first time ever Mayo Clinic has developed an extensive museum exhibition of medical illustration, allowing the public to experience the intricacies of this little-known art form that is rarely seen by individuals outside the medical profession. This exhibition, named *Scalpel to Sketch: The Science and Beauty of Medical Illustration at Mayo Clinic*, examines the vital role that medical artists and their illustrations occupy in advancing the study and practice of medicine. *Scalpel to Sketch* is intended to evoke awe for the exquisite precision of medical illustration and recognize its significance in the practice of medicine and patient care. This presentation will provide detail and insight into how *Scalpel to Sketch* originated and will offer rich stories of how medical illustration has grown into the profession that it is today with a particular focus on unique aspects of how medical illustration has flourished at Mayo Clinic. A virtual tour of the exhibition space (the Rochester Art Center in Rochester, MN) will help provide insight into seven thematic areas that make up the gallery experience. Moreover, an in-depth visual presentation of both historic and contemporary works produced in a wide range of media will highlight the influence of medical illustrators throughout Mayo Clinic’s existence, including some rare works from notable artists such as Ralph Sweet, Eleanor Fry and Russell Drake.

Robert F. “Bob” Morreale is Director of Mayo Clinic’s Medical Illustration and Animation Unit. Before joining Mayo, he was Assistant Professor and Chair of the Department of Medical Illustration at the Cleveland Institute of Art (CIA) with an adjunct appointment in the Department of Anatomy at Case Western Reserve School of Medicine. Prior to CIA, Bob was a medical illustrator at The Johns Hopkins University in the departments of Pathology and Surgery and within the Emerging Technologies Division. Bob received both a BFA in Medical Illustration and a MS in Fine Arts Education from RIT in Rochester, New York.

This presentation is supported in part by a grant from the Vesalius Trust for Visual Communication in the Health Sciences.

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**1:30 – 2:30 pm**

**Concurrent 1**

0.1 CEU Business

**Concurrent 2**

0.1 CEU Art
Rocky Mountain Labs: A Century of Biodefense Research in the Bitterroots  
Marshall Bloom, MD

The Rocky Mountain Laboratories (RML), located in the Bitterroot Valley of western Montana, are part of the Division of Intramural Research of the National Institute of Allergy and Infectious Diseases (NIAID) of the National Institutes of Health (NIH). The origins of RML can be traced back to 100 years ago when medical scientists were dispatched to the Bitterroot Valley to unravel the etiology of a serious new “emerging” disease, variously referred to as “black measles” or Rocky Mountain spotted fever. After these initial studies, which were performed in log cabins, tents and abandoned school houses, RML scientists went on to record a distinguished history that spanned the 20th century and included cutting-edge research on important infectious diseases like Q fever, yellow fever, typhus, tuberculosis, tularemia, pertussis, Lyme disease and prion diseases.

Dr. Marshall Bloom is Associate Director, NIH NIAID Rocky Mountain Laboratory in Hamilton, MT.

What Do You Really Know About Copyrights?  
Andrew Berger, JD

This question and answer session will assess the audience’s knowledge of copyright issues and follow up with insightful answers regarding actual terms and conditions of copyright.

Andrew Berger is an attorney with Tannenbaum Helpern Syracuse & Hirschtritt in New York City.

The Development of UIC Virtually™ - Virtual Eye / Virtual House  
Zhuming Ai, PhD and Scott Dixon, MS

Discover the visual design process behind the Virtual Eye / Virtual House project. This project was developed on a portable virtual reality (VR) system using a VR software development tool kit with models built by several different software packages. The software is developed at the VRMedLab, UIUC using Electro, a VR software development tool kit developed at the Electronic Visualization Lab, UIUC. The creative process involves 3D modeling, texturing and evaluation within the virtual environment. Programs used in the process include 3D Studio Max, Photoshop, PolyTrans.

Scott Dixon is a Visiting Clinical Assistant Professor at the University of Illinois at Chicago (UIC). He has a BS in Digital Media from the University of East Tennessee State and MS in Biomedical Visualization from UIUC earning the College of Applied Science Achievement Award. While a student at UIC, Scott worked as a Research Assistant in the VR MedLab and earned the College of Applied Science Achievement Award.

Zhuming Ai, PhD is a Research Assistant Professor in the Virtual Reality in Medicine Lab, the Department of Biomedical and Health Information Sciences and an Adjunctive Assistant Professor in the Department of Bioengineering at UIC. He received his PhD in Biomedical Engineering from Southeast University, China. Before he joined UIC, he was a guest researcher at the Department of Visualization and Virtual Reality, Fraunhofer Institute for Computer Graphics, Germany, working on molecular modeling in virtual environment. He developed and taught the Virtual Reality for Biovisualization course at UIC.

Developing Applications of Electron Microscopy  
Elizabeth Fischer, MA

Microorganisms invading eukaryotic cells are typically trafficked to the host endosomal/lysosomal pathway where they are destroyed within the harsh degradative environment of the lysosome. Intracellular pathogens use different survival strategies to avoid lysosomal digestion and have evolved mechanisms to harness the host cell machinery for successful replication and survival within the host cell. Beth Fischer will discuss the various microscopy techniques used to study the survival strategies used by the obligate intracellular parasite, chlamydia, for successful replication in epithelial cells.

Beth Fischer received her BA degree in Molecular, Cellular and Developmental Biology from the University of Colorado at Boulder and a Master's degree in Biology from the State University of New York at New Paltz. During graduate school, Ms. Fischer enrolled in intensive electron microscopy courses providing the knowledge and skills necessary for her current position as an electron microscopist for the Rocky Mountain Labs.
Concurrent 7
0.1 CEU Business

4:30 – 5:30 pm

SHORT TOPICS IN BUSINESS:

1. The ABCs of Licensing Medical Illustration
   William B. Westwood, MS, CMI, FAMI
   Explore the “art” of licensing - how to write an effective license, structure a license, and determine a license fee. Participants will learn how to protect their rights, get what they deserve and maximize the income from the work they create!
   This presentation will:
   - Provide participants with a detailed overview of the good contractual language and the legal terms which make a license agreement binding
   - Provide the who, what, when, where, why and how basis and rationale for a properly structured license agreement which will effectively protect an artist’s rights
   - Define and explain the specifications that form the legal limits of a good license agreement
   - Describe the “relationship of rights and value” relative to the licensed usage of a piece of artwork in the various markets for medical artwork
   The following handouts will be provided:
   - Sample license agreements for different medical art markets
   - General license agreement checklist(s)
   - Tips on determining license fees and negotiating good licenses
   Bill Westwood is a graduate of the Medical Illustration Program at the Medical College of Georgia, and worked on the staff of the Mayo Clinic in Rochester, MN for 10 years before starting Westwood Medical Communications, currently located in Albany, NY. Bill is Board Certified and an elected Fellow in the Association. He was twice elected to the AMI Board of Governors, and served as President. Bill is a well-known speaker on the issues of artist’s rights/copyright and business and marketing.

2. Getting Organized with FileMaker Pro
   Jennifer “Jeni” Fairman, MA, CMI
   Jeni will introduce the features and functions of FileMaker Pro as a time- and sanity-saving business tool that organizes vital data that is often easy to lose, such as client contact information, job information and illustration archiving. She will demonstrate why and how FileMaker can help a small illustration studio business owner get more organized with a computer-aided demonstration. Topics will include how to set up a basic database, database types/features including client/contact management systems, job management and building a database to archive stock artwork for easy retrieval. Other organizational tips will address how to make sure all files, both digital and paper, are easy to find using job numbers, archive numbers, file-naming conventions, etc.
   Jennifer Fairman is the Founder and Principal of Fairman Studios, LLC and holds a faculty appointment in the Department of Art as Applied to Medicine where she previously received her MA in Medical and Biological Illustration from the Johns Hopkins University School of Medicine. She serves on the Board of Governors of the AMI and is a professional member of the GNSI, The Illustrators Club of Washington, DC, and is a second-term board member of the Vesalius Trust. She has received numerous grants and awards for her work including Certificates of Merit from the AMI, a Smithsonian Women’s Committee Grant, a James Smithson Society Fellowship, and a Vesalius Trust Research Grant.

3. Quickbooks Pro
   Jennifer “Jeni” Fairman, MA, CMI
   Learn how to integrate this powerful accounting tool into your business practices. Jeni will demonstrate the components of QuickBooks Pro and how its features apply to medical illustration businesses.
   - Print checks, pay bills, tracks sales and expenses
   - Create estimates and invoices
   - Manage contacts to create marketing mailing lists
   - Track time with online timesheets
**SHORT TOPICS IN ART:**

1. **Mudbox**  
   *Craig Foster, MS, CMI*  
   Craig will demonstrate some new concepts from Mudbox 1.0 such as true 3D Layers, which allows artists to organize sculpted forms and details on separate layers; and innovative mirroring technology, which enables artists to sculpt symmetrically on asymmetrical or posed models.

   Skymatter’s flagship product, Mudbox, is a groundbreaking 3D sculpting solution that is helping to redefine the world of digital content creation. Mudbox is a primary tool at many of the most notable film studios and production facilities, including Weta Digital, Blur Studio, Cinesite, Naughty Dog (a subsidiary of Sony Computer Entertainment), Tippett Studio, Epic Studios, The Orphanage and Radical Entertainment.

2. **’06 Salon winners/judges**  
   *Jane Hurd, CMI*  
   *Glen Hintz, MS*  
   *Kip Carter, MS, CMI*  
   *Tami Tolpa, MFA*  
   *John Daugherty, CMI*  
   *Joel Esperanza (judge), MFA, PhD candidate, CMI*  
   Join the 2006 Salon winners as they give a brief overview of the creation of their award-winning work, followed by a look into the Salon judging process and the behind-the-scenes preparations for our yearly art show.

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**Medical Applications of Biomfilm Technology**  
*Garth James, PhD*  
Research suggests biofilms, which consist of microbial cells attached to a surface and enmeshed within an extracellular polymer matrix, are the primary mode of prokaryotic existence. Bacteria within biofilms are distinct from their free-floating counterparts and among other characteristics show tremendous resistance to antimicrobial agents. Biofilms in the human oral environment include plaque on tooth and prosthetic surfaces, periodontal biofilms and tongue coats. These biofilms play roles in the development of dental caries, periodontal disease and oral malodor. Biofilms have also been implicated in a number of other diseases including cystic fibrosis pneumonia, endocarditis and otitis media. Biofilms are also responsible for infections associated with a variety of medical devices including orthopedic devices and catheters.

This presentation will provide an overview of biofilm characteristics including biofilm architecture, physiology and antimicrobial resistance. Examples of dental and medical biofilms will be used to illustrate key concepts. Current biofilm research at the Center for Biofilm Engineering and other biofilm laboratories around the world will also be summarized.

*Dr. James* directs research and testing in the Medical Biofilm Laboratory at the Center for Biofilm Engineering at Montana State University. He received a B.S. in microbiology from the University of Saskatchewan and a Ph.D. in microbiology from the University of Calgary. He has over fifteen years of experience in biofilm research in areas ranging from industrial water treatment to biofilm colonization of medical devices.
FRIDAY
GENERAL SESSIONS

8:30 – 9:30 am  
Plenary 4  
0.1 CEU Business

Inside the Business of Illustration  
Steven Heller

Mr. Heller’s talk will examine the history of illustration and the illustration vs. Fine Art myth. He’ll use this exploration to illustrate how the profession has come to where it is today, and follow up with what can be done, in practical terms, to create new options.

Steven Heller wears many hats. For 33 years he has been an art director at the New York Times, originally on the OpEd page, and for almost 30 of those years for the New York Times Book Review. He is currently a senior Art Director, and also writes book reviews and obituaries for the New York Times. He is the founder and co-chair of the MFA Designer as Author program at the School of Visual Arts, New York, where he lectures on the history of graphic design. Prior to this, he lectured for 14 years on the history of illustration in the MFA Illustration as Visual Essay program at the School of Visual arts. He also was director for ten years of SVA’s Modernism & Eclecticism: A History of American Graphic Design symposiums.

As editor of the AIGA Journal Of Graphic Design he published scores of critical and journalistic writers on design, and currently as editor of AIGA VOICE: Online Journal of Design, he continues to help build a critical vocabulary for the field.

This presentation is supported in part by a grant from the Vesalius Trust for Visual Communication in the Health Sciences.

10:00 – 11:00 am  
Plenary 5  
0.05 CEU Art,  
0.05 CEU Biomedical Science

Inner Life of a Cell  
David Bolinsky, BS and Robert Lue, PhD

David will discuss the making of the animation, The Inner Life of a Cell, and Dr. Lue will describe the science behind the images.

David Bolinsky has a BS in Medical Illustration from OSU, and left his tenure as the senior medical illustrator at the Yale School of Medicine in 1983 to found one of the first digital medical animation companies, Advanced Imaging. Teaming with Michael Astrachan, David co-founded XVIVO in 2001, to further explore the complementary concepts of Truth and Beauty in the visualization of complex time and motion dependant concepts medical media.

XVIVO is an award-winning full service digital animation facility specializing in the creation of compelling cinematic-quality animations for medical and corporate clients. XVIVO is currently in a major multi-year commitment to help Dr. Robert Lue, Executive Director of Undergraduate Education at Harvard and Senior Lecturer at the Department of Molecular and Cellular Biology, re-imagine how his students can be taught using complex immersive animation of cellular physiology. The first chapter of this project, The Inner Life of a Cell, which first caught international attention in Siggraph’s Electronic Theater in 2006, became a feature story on the ABC Evening News this January.

Inner Life of a Cell, Copyright © 2006 The President and Fellows of Harvard College

11:30 am – 1:00 pm  
Business Meeting - Lunch provided

1:00 – 2:00 pm  
Member’s Forum:  
Talk back to the AMI Board of Governors Presentation by Tonya Hines, Chair of the Professional Guidelines Committee, on the May 2007 Member Compensation & Pricing Survey. Survey data and the implications of the results will be discussed.

1:00 – 6:00 pm  
Certification Exam in Medical Illustration, Part I
## FRIDAY

<table>
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<tr>
<th>Time</th>
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<tr>
<td>2:30 – 4:00 pm</td>
<td>Adobe® Presents: Creative Suite 3 Presented by the Adobe team, Colin Fleming and the AMI’s Tami Tolpa</td>
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<td>4:00 – 6:00 pm</td>
<td>Techniques Showcase/Vesalius Trust Silent Auction</td>
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<td>Traditional Media Presenters:</td>
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<td>Corinne Sandone</td>
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<td>Cassio Lynm</td>
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<td>Laurie O’Keefe</td>
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<td>Christy Krames</td>
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<td>Alice Tangerini</td>
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<td>Digital Media Presenters:</td>
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<td>Andrew Swift</td>
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<td>Jennifer Fairman</td>
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<td>Mica Duran</td>
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<td>Kimberly Martens</td>
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<td>David Killpack</td>
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<td>Craig Foster</td>
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<td>Jeff Stewart</td>
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| 6:00 pm | Free Evening |
|         | Explore Bozeman or Alumni Activities                                 |

| 8:30 – 9:30 am | Plenary 6 0.1 CEU Art |
| During this session, renowned artist David Hockney observed that certain paintings from as early as the Renaissance seem almost "photographic" in detail. Following an extensive investigation of western art of the past 1000 years, he made the revolutionary claim that artists even of the prominence of van Eyck and Bellini must have used optical aids. However, many art historians insisted there was no supporting evidence for this.

In this talk Dr. Falco will show optical evidence for this claim that he and Mr. Hockney developed during an unusual collaboration between artist and scientist. He will also discuss the imaging properties of the "mirror lens" (concave mirror), and some of the implications this work has for the history of science and art as well as the modern fields of machine vision and computerized image analysis. These discoveries demonstrate optical instruments were in use -- by artists, not scientists -- nearly 200 years earlier than thought possible, and explain the remarkable transformation in the reality of portraits that occurred early in the 15th century.

Charles Falco is a Professor of Optical Sciences at the University of Arizona where he holds the UA Chair of Condensed Matter Physics. He is a Fellow of the American Physical Society, the Institute of Electrical and Electronics Engineers and the Optical Society of America. He has published more than 250 scientific manuscripts, most of which cover physical properties of thin film materials, co-edited two books, has seven U.S. patents and has given more than 200 invited talks at conferences in some 20 countries. His work with David Hockney has resulted in widespread media coverage, including a BBC special, a segment on 60 Minutes and over 60 invited talks in ten countries.

This presentation is supported in part by a grant from the Vesalius Trust for Visual Communication in the Health Sciences.

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<th>Vendor presenters:</th>
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Futures Forum
0.15 CEU Business

Medical Illustration 2.0: The Next Generation

Moderator: Betsy Palay, MS, CMI, FAMI

Are we facing critical changes that will redefine our profession in the future? Join us to continue the exciting dialogue begun at last year’s popular Futures Forum... with a new twist. Our panel members represent Medical Illustration 2.0 – the next generation of comers who have the most to gain by understanding what’s next and being prepared. Our panelists will kick-off the Forum with their perspectives on where we might find land while sailing the unchartered waters of our changing world. Topics include the impact of new technologies, our place in the biocommunication food-chain, the threat of foreign competition, issues about intellectual property access, and much more. Panelists are:

- **Moderator: Betsy Palay, MS, CMI, FAMI**, has over 25 years experience as a consultant to life sciences companies and organizations. Betsy is founder and former president of Artemis Creative, Inc., a visual communications firm which won over 100 industry awards for illustrations and designs for annual reports, IPO’s, and medical product launches.
- **Jennifer Fairman, MA, CMI**, Instructor, Johns Hopkins University School of Medicine, Department of Art as Applied to Medicine, and Founder and Principal of Fairman Studios.
- **Graham Johnson, MA, CMI, PhD candidate and NSF Graduate Research Fellow at The Scripps Research Institute (Olson lab) and cofounder of fiVth.com.**
- **David Rosenberg, MS, CMI, self-employed medical animator, Rosenberg Studios.** David’s work focuses on 3D animation. Recent projects include supplemental DVDs to accompany textbooks and 3D anatomical modeling for virtual simulators to train military personnel. David is the winner of a 2002 AMI Salon award for Interactive Media.
- **Joan M. K. Tycko, MA, MBA, CMI, Medical Illustrator at the National Library of Medicine/Audiovisual Program Development Branch, National Institutes of Health, and founder of Tycko Medical & Biological Art.** Her wide-ranging work has included illustrations for medical textbooks, scientific papers, and mass-market books. In addition, she has worked on multi-media projects for the National Library of Medicine’s Audiovisual Development Branch.

Concurrent 10

Presidential Luncheon

Pat Thomas: Thanks for the AMI Memories

President Pat Thomas will give her presentation, *Thanks for AMI Memories - Part II*, a second edition of Teri McDermott’s presentation given at the Fiftieth Anniversary Meeting in 1995. Pat interviewed the AMI presidents from 1996 through 2006 and assembled their stories of nostalgia, inspiration and friendship.

Concurrent 11

Medical Legal Business Practices to Protect and Add Value to Your Work

Bob Shepherd, MS, CMI

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Concurrent 11

Medical Legal Business Practices to Protect and Add Value to Your Work

Bob Shepherd, MS, CMI

The business of medical-legal illustration is associated with a unique set of challenges compared to other areas of illustration. The development and execution of several business practices can provide the illustrator with multiple benefits. Some of those benefits include 1) improved public relations for the individual illustrator as well as for the profession of medical illustration, 2) protection against unauthorized usage of your artwork, 3) education of your clients regarding copyright laws and the associated fines and 4) payment for services provided.

Art & Science of the Motorcycle

Charles Falco, PhD

In 1871 Louis Guillaume Perreaux installed a compact steam engine in a commercial bicycle, and thus produced the world’s first motorcycle. By 1903, thanks to a period of extraordinarily rapid technological advance, essentially all the components of a modern motorcycle were in place, and changes to the motorcycle since then have been largely the result of evolutionary refinement rather than revolutionary invention.

Like many other objects of industrial design, motorcycles have played a variety of roles in society over the 136 years since the Michaux-Perreaux. This talk examines the interrelationship of the relevant technological, cultural and aesthetic factors over the past century that have, among other things, resulted in standard production motorcycles -- incorporating such materials as carbon-fiber composites, maraging steels and “exotic” alloys of magnesium, titanium and aluminum -- that can exceed 190 mph straight from the show room floor.
This presentation will share real “school of hard knocks” experiences that lead to the development of some of these practices. It will also delve into specifics regarding the business practices and contractual language that can be incorporated into legal documentations, presentations, web sites, legal exhibit panels, digital illustrations, animations, etc. in order to help achieve the above-stated benefits.

Bob Shepherd is the Vice President and Director of Eastern Region Operations of MediVisuals Incorporated. He holds a master’s degree in Medical Illustration from the Medical College of Georgia. He manages a 15-person office, which is part of a 28-person company that specializes in medical demonstrative evidence.

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<th>2:00 – 3:00 pm</th>
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<th>0.1 CEU Art</th>
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Conjoined twins are one of the rarest congenital malformations occurring in about 1 out of 200,000 live births. Within the last year, Mayo Clinic has performed three separation surgeries. All have survived.

This presentation will outline a medical illustrator’s role in the separation of conjoined twins through developing a “roadmap” for surgery to visually orient a 70-person care team to the twins’ anatomy. The complete surgical planning approach, the multidisciplinary collaborations and the resulting visuals will be discussed.

Conjoined twin anatomy is very tricky to visualize, as they share organ structures and what is typically lateral and medial presents as posterior and anterior when they lie on a table. The omphalopagus twins in this case were connected at the chest and abdomen, sharing a fused pancreas, duodenum, liver and part of the hepatic portal and biliary system.

Bob Morreale is Director of Mayo Clinic’s Medical Illustration and Animation Unit.

Michael A. King is a staff medical illustrator in Mayo Clinic’s Medical Illustration and Animation Unit. Previously, he was a staff illustrator at Baylor College of Medicine in Houston, Texas. Michael received a BA in Studio Art/Art History from Oberlin College in Ohio and a MFA in Medical Illustration from the University of Michigan in Ann Arbor.

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Successful biomedical animation is the product of good aesthetic judgment, sound story-telling, scientific knowledge and expansive technical prowess. As a technician, the biomedical animator must knit together the skills of the character animator, lighter, rigger, renderer, compositor and texture artist.

However, frequently the skills of the visual effects artist are needed as well. These include work with dynamics systems, particles, fluid, soft bodies, rigid bodies, hair and fur, to name a few. Control of these tools and the creation of visual effects demand some knowledge of expression writing and coding.

The presenters will show through examples of their own work and their students’ projects how the tools of the visual effects artist are critical to the solution of many biomedical visualization challenges. This is not a technical workshop: but a demonstration of innovative ways to approach problems in 3D biomedical visualization. Examples will be based on the tools available in Maya and After Effects.

Eddy Xuan worked for 10 years in film and television creating the visual effects for shows like Everyone’s Hero, the first prime time CG TV series Game Over, and the DVD series Veggie Tales. He holds an M.Sc.BMC from University of Toronto, a Bachelor of Engineering in Industrial Design from Shanghai Jiao Tong University and a Postgraduate Diploma in computer animation from Sheridan College. Eddy is co-founder of AXS Biomedical Animation Studio, Inc. and teaches Visualization Methods and Technology at the Department of Biomedical Communications, University of Toronto.

Marc Dryer teaches 3D biomedical visualization at the University of Toronto’s Department of Biomedical Communications program. Following his undergraduate work in anthropology he received an MS in paleoanthropology, a postgraduate diploma in 3D animation from Sheridan College and an MS in Biomedical Communications. His fieldwork includes two seasons in Ireland as well as research in human ecology and agricultural practices in Himalayan foothills. Marc worked as multimedia designer and medical illustrator at the Credit Valley Hospital in Mississauga, Ontario, and as the lead medical animator at Jack Digital Productions, a company producing materials for oncology patients.
SATURDAY

3:30 – 5:00 pm

**Concurrent 14**

**0.15 CEU Business**

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**Institutional Departments Panel Discussion**

Academic medical illustration service centers - how did they start? What do they look like now? What’s the future? And how might they enhance your career opportunities?

Medical illustration has its roots in academic medicine. In 1894, artist Max Broedel traveled from Germany to America to partner with renowned physicians at The Johns Hopkins University and revolutionized the appearance of medical literature.

The early part of the 20th century was full of groundbreaking medical procedures. Physician pioneers were sharing their findings with their colleagues at a rapid pace in the form of medical textbooks, articles and presentations. Good illustrations were crucial. Developing illustrator-physician partnerships within academic medicine was essential.

In this panel discussion you’ll hear from current academic medical illustration service center directors. They’ll discuss topics such as the current state of illustrator/physician partnerships, access to dissection labs and operating rooms, their ability to incorporate the latest technology and its long-ranging effects, staffing, current studio environments, institutional policy regarding illustration and animation freelance opportunities, administrative challenges, strategic relationships and their predictions for the future.

- **Kip Carter, MS, CMI**, Chief of Medical Illustration Services, Educational Resources, College of Veterinary Medicine, University of Georgia
- **Gary W. Schnitz, MA, CMI, FAMI**, Director of Medical Illustration, The Indiana Hand Center
- **Robert F. Morreale, MS, CMI**, Creative Services Director, Mayo Clinic, Medical Illustration and Animation Unit
- **Thomas Weinzerl, MA, CMI**, Director, IUSM Office of Visual Media

3:30 – 4:30 pm

**Concurrent 15**

**0.05 CEU Art, 0.05 CEU Biomedical Science**

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**Jewels of the Jungle - The Search for New Medicines: A Documentary Film**

**Gary Strobel, PhD and John Shier, MFA**

*Jewels of the Jungle* is a documentary dealing with studies underway by Dr. Gary Strobel on endophytic microorganisms at Montana State University (MSU). These microbes, found in virtually all plants, provide a new rich source of microbial processes and secondary natural products which can be used in medicine, agriculture and industry. Because the biggest diversity of microbes is to be found in the world’s rainforests, the film was made in forests in Australia, Peru and Bolivia.

The documentary was produced by John Shier, recent graduate of MSU’s MFA program in Science and Natural History Filmmaking with help from a National Science Foundation grant. He will discuss his experiences creating this film.

**Gary A. Strobel** completed a BS at Colorado State University and a PhD at the University of California, Davis and is currently on the faculty of MSU. His research interests have centered on microbe -higher plant relationships. His work on the modification of tree micro flora to preclude plant disease received major national attention in his efforts to biologically control Dutch elm disease. More recently, he has begun to examine endophytic fungi and bacteria for their novel bioactive compounds and their unique biology. He has received numerous awards including awards from NIH, from the Royal Nepal Chemical Society and from MSU. He was elected to membership in the American Academy of Microbiology and elected to full fellow of the Explorer’s Club of the World.

**John Shier** holds BS and MFA degrees and was trained in physics and engineering. His first love is the filming of Grizzly bears wherever they may roam.

5:00 – 6:00 pm

**Concurrent 16**

**0.1 CEU Art**

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**New Medical-Legal Presentation Techniques**

**Steven Mader, BSc, BScAAM, MScBMC, CMI; Sue Seif, MA, CMI; and Bob Shepard, MS, CMI**

Illustrators are developing and implementing new communication tools, but how far has the day-to-day practical application of new technologies progressed in the medical-legal field? Are lawyers and judges receptive to innovative visuals? Are the courts equipped to utilize them? Is it profitable for medical-legal illustrators to produce them? Is there a difference in how they are accepted by defense versus plaintiff attorneys and in the med-mal versus personal injury areas? Can these techniques also be used outside the courtroom for other types of presentations?

These are some of the questions that will be addressed by practicing medical-legal communicators. They will share their experiences and discuss what does and doesn’t work for them as well as what the future may bring.

**Stephen Mader** is the President of Artery Studios Inc, a Toronto-based visualization company that specializes in medical illustration.
animation and interactive media for plaintiff lawyers litigating personal injury and medical malpractice claims. He holds undergraduate and graduate degrees in medical illustration from the University of Toronto. He has contributed illustrations to numerous publications, including Grant’s Atlas of Anatomy and has extensively presented and written papers on medical-legal visualization.

Sue Seif earned her MA in medical illustration at Johns Hopkins School of Medicine and joined the faculty of the Medical College of Virginia after graduation, leaving in 1983 with the rank of associate professor. She is past-president of the AMI and past-chairperson of the Board of Certification of Medical Illustrators; she remains on that board. Sue is a frequent lecturer to insurance and legal groups around the country. She was a founding member of MediVisuals and left to start her own business in 1994. Seif & Associates, Inc., offers consultation services and produces high-quality demonstrative evidence for use in the defense of medical malpractice and medical products litigation.

Bob Shepherd is the Vice President and Director of Eastern Region Operations of MediVisuals Incorporated.

**VESALIAN SCHOLARS:**

**Vesalius Trust for Visual Communication in the Health Sciences**

*Jennifer E. Fairman, MA, CMI - Moderator*

The Vesalius Trust for Visual Communication in the Health Sciences is proud to host the 2007 Vesalian Scholars’ session. The Trust, which provides funding in support of student research in the areas of medical illustration and biomedical communication, awarded financial grants this year to 17 medical illustration students, five of whom will present the research done as part of their graduate studies:

- **Adrian Yen,** University of Toronto, Alan Cole Scholar
  Visualizing Cardiac Drugs Used in Treating Atrial Fibrillation: A Web-based Learning Tool Examining Visual Complexity in Communicating Antiarrhythmic and Rate Controlling Drug Actions

- **Kate Burnett,** The Johns Hopkins University, Vesalian Scholar
  Visualizing Dynamics and Forces of Vaginal Delivery Through Animation

- **David Cheney,** The Johns Hopkins University, Vesalian Scholar
  Virtual Resurrection of a New Species of Hadrosaurid Dinosaur Provides Novel Insights into Chewing Biomechanics

- **Lydia Gregg,** The Johns Hopkins University, Vesalian Scholar
  Can Covered Stents Treat Cerebral Aneurysms? A Visual Exploration of the Dynamics and Mechanisms of a Semipermeable Stent Graft

- **Rachel Stork,** University of Illinois at Chicago, Vesalian Scholar
  A Computer Interactive Educational Tool as an Aid in Pediatric Metabolic Diet Counseling and Compliance

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**5:00 – 6:30 pm**

**Concurrent 17**

0.15 CEU Biomedical Science

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**6:00 - 10:00 pm**

**Barn Social and Vesalius Trust Live Auction at S.O.B. (Save Our Barn) Barn**

Be there for a make-your-own fun kind of party at S.O.B. Barn! Come as you are or as your favorite western character. Join in the music making with our own AMI musicians, then pull on your boots and learn how to line dance. Good food and good memories are on the agenda!
The 2008 annual meeting in Indianapolis will offer an amazing selection of educational sessions and social events that you simply won’t want to miss. Some of the topics explored will be orthopaedics, sports medicine, adipose-derived stem cell research, and cancer treatment. The illustration topics will include both traditional and digital techniques, with an emphasis on illustration problem solving.

Our 2008 meeting will take place at the upscale University Place Hotel and Conference Center, near downtown Indianapolis on the combined campus of Indiana University - Purdue University at Indianapolis (IUPUI). The world-class Indiana University Medical Center and Lilly Medical Library are within easy walking distance.

Indianapolis is commonly referred to as the “Crossroads of America” and is easily accessible with four interstate highways bisecting the city from all directions. In addition, half of the nation’s population is within a one-day’s drive, which makes traveling to Indy by car an attractive option for many AMI members.

You’ll find Indianapolis to be a fresh cultural city with a diverse array of arts, attractions, and historical sites. In Indianapolis, it’s so easy for you to do so much.

Illustration, medical history, technology, science, sports medicine, education, and of course wonderful AMI camaraderie... Come to Indianapolis in 2008 and Accelerate Your Career!

Your AMI-Indy Meeting Team

July 16 - 20
AMI Activities
AMI Dorm
Parking
Dining
Coffee Shop
Streamline Bus Stop
Main AMI Conference Center (Strand Union Building)

MSU Area Restaurant Guide
1. Casa Sanchez
2. Union Market (in the basement of the Strand Union Building).
Bobcat Court, Standing Room Only, and Plaza Grill.

3. Columbo's Pizza & Pasta
4. I-Ho's Korean Grill
5. Junga Juice
6. The Lighthouse
7. Mama Mac's II
8. Pickle Barrel
9. Plaza Grill
10. Spectator's Bar and Grill
11. The Habit Restaurant
12. Miller Dining Hall
13. The Daily Coffee Bar
15. Granny's Gourmet Donuts

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