Portland, Oregon
July 21 – 24, 2005

Welcome

Program
Abstracts
Workshops
Meeting at a Glance

Annual Meeting Site
The Benson Hotel
309 Southwest Broadway
Portland Oregon 97205
Voice: 503-228-2000
Fax: 503-471-3920

BioCommunications Association, Inc.
220 Southwind Lane
Hillsborough, NC 27278
Voice/Fax: 919-245-0906
e-mail: office@bca.org
www.bca.org
Welcome!

On behalf of all the meeting organizers, I’d like to extend to you a heartfelt Welcome to Portland! Many have worked diligently over the past year to bring you this unique program. It has been our desire to provide you with an experience that will encourage you, help you to develop professional relationships, and enrich your knowledge in your field.

This is truly a historic milestone as we celebrate our 75th meeting together. Not since George Eastman invented the dry plate has photography undergone such a dramatic shift in materials and methods. Gatherings like this one help us prepare for the challenges of change. Joining us in Portland are Emeritus members and Past Presidents representing service to the association for the past thirty years. These people are a unique treasure to our profession, and I hope each of you will take the opportunity to seek out and tap into this valuable resource while you’re here.

Throughout the program there will be opportunities to catch up with old friends and make valuable new ones. Please keep a lookout for our many “first-timers” this year and bring them into the BCA family. Take full advantage of this gathering to share ideas, experiences, and solutions with your fellow biocommunicators; and when it comes time to return home, go with a renewed vision and passion for your profession. Thank you for participating in BIOCOMM 2005!

Sincerely,
Richard Frederickson
Director of Conferences
BioCommunications Association
This year the BioCommunications Association holds its seventy-fifth meeting. A remarkable feat for any organization. We have come a long way from the technology of our founders when they held the first meeting in 1931. They founded the Biological Photographic Association. The group photo on the steps at Yale has become a part of our culture. The premise was one of any learned society; to bring together people working in a field and provide them with a forum to share information, teach skills, and build a network of colleagues. The Biological Photographic Association became the BioCommunications Association. Old copies of programs tell us where we have been. Not just geographical locations but the tools we have used and the way in which we have evolved. Discussions took place on whether 35mm film was really appropriate for the operating room and in the pathology lab. I can remember at Rochester, NY we took a bus to look at this amazing piece of equipment called a “Genigraphic” that would expose film and allow a department to make 35 mm slides generated from a computer image. Film processing is gone from most departments. The power of the desktop computer eclipses what was once cutting edge. Now we talk about how many megapixels is enough.

While we have come a long way from the technology we have tried to stay true to that original idea. Bring like-minded people together and they will learn from each other. They willingly share their knowledge. Their knowledge builds a common repository upon which the participants can draw. This has always been at the core of the BioCommunications Association. I am inviting you to participate, learn, teach and expand your network of colleagues. Take part in a seventy-five year tradition.

John Hendrix, RBP, FBCA
President, BioCommunications Association
Keynote Speaker
James W. Henderson, RBP

James W. Henderson is the owner of Applied Photograph Research, and specializes in providing solutions to difficult imaging problems associated with science and medicine. He is a Registered Biological Photographer, holds degrees from Oberlin College and The Rochester Institute of Technology. He has served on the Board of Registry and as Chairperson, Pacific Northwest Chapter BPA. Henderson was a medical photographer and later Chief, Medical Media Production Service, Department of Veterans Affairs from 1977 until 1994. In 1992 he developed cross-polarized lighting equipment for portable field photography and a hybrid enhancement procedure to record faded American Indian rock paintings and Oregon Trail inscriptions. His current research projects focus on preserving images of archaeological artifacts. His most recent publication, Use of Cross-Polarized Lighting in Archaeological Photography, can be found in the Journal of Biocommunication Vol. 30 No. 3 (in print). Henderson is the recipient of numerous grants and awards for his work, including the 1999 Lennart Nilsson Award in Photography.

Pioneer Lecturer
Stephen Johnson

Art and technology merge for digital photography pioneer Stephen Johnson who will present an exploration of high-end digital cameras in landscape photography. Spend an hour exploring the groundbreaking digital landscape photography project “With A New Eye” with its creator, digital photography pioneer Stephen Johnson. The idea, the tools, the inspiration and the means of accomplishing this massive 8 year project will be discussed in detail as Steve walks us through his travels to over 53 national parks and the arduous task of organizing and funding a complex project. The bleeding edge of technology has left its marks on Steve, and left us all with new icons in the history of landscape.

Johnson's subtle use of color, unbelievable detail, all wrapped in his light-filled pastel images reveal a fundamentally new way of seeing, redefining “straight” photography in an age of endless manipulation. His photographs ring true, because his images mimic our eyes view, revealing a world we know, often fail to notice, and never see on paper. This lecture is a companion to the upcoming exhibit, giving us all a rare chance to see just how good photography can be, and far beyond film digital photography has already gone. Discussions will include the dramatic increases in quality now possible with digital photography, the limitations of film, and the empowerment the technology enables for artists and educators.
BioCommunications Association
Board of Governors

President  John Hendrix, RBP, FBCA
Vice President  Jim Fosse, RBP, FBCA
Secretary/Treasurer  Tom Hurtgen, FBPA
Past President  Anita Tellier, FBCA

Directors of:
Chapter Operations  Thomas S. Merrill, FBPA
Conferences  Richard Frederickson
Certification  Adam Cooper, RBP
COPE  Susanne Loomis
EFFE  Cheryl Montgomery
Communications  Charlene Baron

Office Manager  Nancy Hurtgen

Journal of BioCommunications

Management Board
Bob Turner, RBP, FBPA
Carol Gray, RBP, FBPA

Editor
Joe Ogrodnick, FBPA

Thursday, July 21

9:00 AM  Website Redesign Brainstorm Session

10:00  Certification Committee
(Brighton Room)

1:00 PM  Registration Opens
(Mezzanine, Mayfair Ballroom Foyer)

1:00-5:00  Board of Governors Meeting
(Regency Room)

6:00  Opening Reception
Music provided by Celtic Muse
(Kent Room)

7:00  BioImages Awards Ceremony
(Mayfair Ballroom)

BioImages 2004, Award of Excellence
Series
Retinoblastoma
Seth Dixon
Jere Parobek

BioImages 2004, Best in Show
Still Media Specimen
Presence of LacZ Beta-galactosidase Activity
Richard Frederickson
Friday, July 22

6:45-7:45  **Full Buffet Breakfast** (Mayfair Ballroom)

8:00 AM  **Welcome** (Mayfair Ballroom)

*Keynote Address*  James W. Henderson

8:00-4:00  **Certification Exams** (Meeting Room 227)

8:00  **Knowledge Management – The Digital Language of Stuff**  Brian Demings

9:30  **What’s New in the Digital Camera World?**  Bill Fortney

10:00 Break (Mayfair Ballroom)

10:20  **Revealed: The Secrets of the Masters - Part 1**  Joyce Michaud

10:50  **Psychology of Group Photography**  Zuhair Kareem

11:10  **The Group Photograph**

11:30  **Lunch and Business Meeting** (Cambridge/Oxford Room)

Town Hall Meeting

1:00 PM  **Revealed: The Secrets of the Masters - Part 2** (Mayfair Ballroom) Joyce Michaud

2:00  **Put it in Writing! Hints for Getting the Things You Need With Persuasive Written Justifications**  Ken Michaels, FBPA

2:30  **Lessons Learned From Upgrading an Auditorium**  Terry King

3:00 Break (Mayfair Ballroom Foyer)

3:20  **Small Department Video Production**  Daniel Hallett

4:00  **Authoring DVDs in the Modern World**  Dan Austin

4:45  **Ten Days at Sea in the Aleutian Islands, Photographic Documentation of a NOAA Research Cruise**  Karna McKinney

5:30 Program ends - Open Evening in Portland

---

**Knowledge Management - The Digital Language of Stuff**  
*Brian Demings, Shriners Hospitals for Children, Portland, OR*

This presentation will discuss the technical terminology (language) that defines data categories, how they relate to each other and where our visual communications services fit in this hierarchy. The following points will be covered: KM (Knowledge Management), CM (Content Management), MAM (Media Asset Management), DAM (Digital Asset Management). Final Archiving Solutions? Jukeboxes vs. Daisy Chained Servers. Brian Demnings is Senior Media Specialist and Manager of Graphic Arts at Shriners Hospitals for Children-Portland, Oregon. He is Co-Chair of The Media Services Work Group, and is tasked with converting the 22 hospital proprietary visual communications departments from analog to digital. Brian is the author of the article “The Psychological and Physiological Impact of Color in Healthcare Environments,” and Co-author of “Documentation of Joint Motion.”

**What’s New in the Digital Camera World**  
*Bill Fortney, Nikon Technical Sales Representative for the Southern United States*

**Revealed: The Secrets of the Masters**  
*Joyce Michaud, Hood College, Frederick, MD*

What do all great works of art have in common? What makes them relevant regardless of time and culture? This presentation explores the simple principles behind classical forms. The audience will learn to integrate their intuitive aesthetics with universal design concepts in a practical application that will help them create their own masterpieces, whether they be brochures, posters, displays or photographs. Joyce Michaud holds a Master of Fine Arts degree from The George Washington University, Washington, D.C., and is an assistant professor at Hood College in Frederick, Maryland, where she also serves as the Coordinator for Studio Arts and Director of the Ceramics Program. A multi-media artist and educator who is very active in her field, Joyce is recognized for her teaching and in-depth research into 2D and 3D composition and the aesthetics of nature. Her work is highly sought after and is found in over three hundred private collections as well as the Smithsonian American Art Museum's Renwick Gallery in Washington, D.C.

**Psychology of Group Photography**  
*Zuhair Kareem, Johns Hopkins University, Baltimore, MD*

Photographing a large group of people is something most of us have to do at one time or another, whether in our professional careers or in our personal life. For many it can be a stressful undertaking. By following some simple guidelines and putting some extra thought into our efforts, we can not only produce memorable photographs but also document, and preserve for posterity, memorable occasions. Our customers will be satisfied and you might be less nervous about, and even excited about your next group photo assignment. This presentation will discuss and describe this thought process.
Put it in Writing!
Hints for getting the things you need with persuasive written justifications.
Ken Michaels, FBPA, SAIC-Frederick, Inc., NCI-Frederick, Frederick, MD

This presentation is about getting what you want (need) at work. Do you want additional staff? Probably, you’ll be told to put it in writing and justify the need. How about some new equipment - need a slug of money to upgrade your technology? Again, more than likely, the boss’ response will be to put it in writing, and be sure to justify the expenditure. Of the many chores of management, one that most of us would be very happy to do without, if we could, would be writing justifications. This presentation describes proven techniques for writing justifications that get the job done, and draws upon some underlying theories of effective management. Ken Michaels has published or presented more than forty journal articles and oral presentations on management topics and is the author of the chapter on biocommunications department management in Biomedical Photography. (Butterworth: 1992, J.P. Vetter, ed.)

Lessons Learned From Upgrading an Auditorium
Terry King, Virginia Mason Medical Center, Seattle, WA

This presentation will look at the process of updating the audio-visual capabilities of a 200 seat auditorium. The presentation will cover: defining the goals, design considerations, choices made, problems encountered, solutions found, final result and future needs. Terrance King is one of four staff photographers at Virginia Mason Medical Center in Seattle, WA. Virginia Mason is a private, non-profit 336-bed hospital and clinic. The center employs 400 providers, 100 residents, 1100 nurses and 3500 other staff at 9 locations. Terrance has 25 years of experience as a general medical photographer with special emphasis in ophthalmic photography, and has taught ophthalmic photography at the national level.

Small Department Video Production
Dan Hallett, Swedish Medical Center, Seattle, WA

This presenter will introduce the audience to useful tools for the one-person video department. The talk will take a peek at the past, a look at today’s technology and a glimpse of what we have to look forward to in the future. After taking an adult education class in photography at Spokane Falls Community College, Daniel Hallett moved to the Puget Sound area to attend the Biological Photography Program at Bellevue Community College under Warren Criss. He graduated with honors and a degree in Medical Photography. While attending school, Daniel worked in the Medical Photography Department at Swedish Hospital, Seattle, WA. He was offered a full-time position after graduation in 1981 and has been on staff at Swedish since. As the hospital’s needs have changed, so has the photography department. In 1998 Daniel began providing video & multimedia services to the medical center, developing considerable expertise in digital video. Daniel has been an active participant in the Northwest Chapter of BCA for most of his career, sharing his knowledge through presentations at nearly every meeting.

Authoring DVDs in the Modern World
Dan Austin, Oregon Health & Science University, Portland, OR

Authoring DVDs is becoming more commonplace as technology advances and cost per disk shrinks. The ability to create multimedia presentations on DVDs with pictures, movies, large graphics and data, that are playable on almost any DVD player in the word makes DVD a perfect tool for biocommunications. The many DVD formats (i.e., DVD-R, DVD+R, DVD-RW and DVD+RW, and others) makes creating compatible DVDs a risky and confusing undertaking. In this presentation I will examine the different worldwide formats for DVDs, movies and video. Additionally, I will discuss some of the authoring programs available for use on the PC and MAC platforms. Dan Austin has worked in research for over 25 years, and has BA and MS degrees in Biology. During his first 15 years he conducted research in Biochemistry, Histology and Neurobiology. In 1994 he was asked to create a graphics core at CROET. He currently serves 15 faculty and over 100 researchers, producing figures and movies for publications, presentations and meetings, as well as developing new communications techniques.

Ten Days at Sea in the Aleutian Islands,
Photographic Documentation of a NOAA Research Cruise
Karna McKinney, Alaska Fisheries Science Center, NMFS, NOAA, Seattle, WA

Are you weary of sitting in front of a computer? Can you remember when getting ready to go to work included wondering what strange and interesting things you might photograph today? Karna McKinney was invited to participate in a NOAA research cruise in the Aleutian Islands, Alaska aboard a 150-foot chartered fishing boat in August 2004. Her presentation will cover training and preparation for the cruise, equipment selection, life on ship, the challenges of the work itself, and will feature photographs of the scientists and crew, the creatures, and the environment. Karna McKinney is a Visual Information Specialist at the Alaska Fisheries Science Center, National Marine Fisheries Service, National Oceanic and Atmospheric Administration (NOAA), US Department of Commerce. She has been a photographer in the biological sciences for over 25 years, first working at the University of Michigan's School of Dentistry, then the Museum of Paleontology. Returning to Seattle, Karna was an instructor for 5 years in the Biological Photography Program at Bellevue Community College. For 12 years she worked as a Medical Photographer/Visual Information Specialist at VA Puget Sound Health Care System. Over the years she has done a variety of freelance projects and her photographs have appeared in natural science books and many scientific and medical publications. Personal interests include aerial and fine art photography. She is a long time member of the Northwest Chapter of BCA.
Saturday, July 23

4:30 -8:00 AM - PreDawn Adventure (Meet in Hotel lobby, breakfast included)
   For those not participating in predawn, breakfast on your own

8:00 AM   Who are we? What are we called?  (Mayfair Ballroom)  Thomas Dickerson
8:00-4:00  Certification Exams  (Windsor Room)

8:35  Its All in the Presentation  James Koepfler

9:00   Submit that Paper Electronically  Dan Austin

9:30   Digital Wound Image Protocol  Brian Demings

10:00  Break (Mayfair Ballroom Foyer)

10:15  Intelligent Digital Imaging  Dennis DaSilva

10:45  iLife Software Overview  Joshua Cooper

11:15  Commercial Exhibitors Introductions

11:30-1:30  Commercial Exhibits  (Mezzaine/ Mayfair Ballroom Foyer)

12:00-1:00  Lunch on your own

1:30   Further 3D Sea Adventures  (Mayfair Ballroom)  John Roll, MD


2:45   Break (Mayfair Ballroom Foyer)

3:00   Maximizing the Power of Photoshop's Masking Tools  Phil Bard

4:30-5:30  Pioneer Lecture
   With a New Eye: Photography Forever Changed  Stephen Johnson

6:30  Honors Reception  (Kent Room)

7:30  Honors Dinner  (Mayfair Ballroom)

Who are we? What are we called?
Thomas Dickerson, UCSF Fresno Medical Education Program, Fresno, CA
The presenter will discuss how his department made the transition to a totally digital environment and will cover such topics as: outsourcing, fulfilling client’s needs by researching and implementing the most effective methods of utilizing and upgrading current equipment, and offering intradepartmental lectures on using PowerPoint and other software. Thomas Dickerson was trained as a US Navy photographer and has worked as a traditional film stripper for pre-press, layout and design artist, medical illustrator and medical photographer. He has an A.A.S in Printing Technology/Graphic Design, and is currently employed as a Media Specialist at UCSF Fresno.

Its All in the Presentation
James Koepfler, Children’s Hospital Orthopedics, Boston, MA
With the advent of digital presentations, 35 mm projectors and projection booths have become a thing of the past. What we generally rely on today are presentations that utilize notebook computers and digital projectors. Along with this still relatively new presentation technology come new problems – among them, cable interface compatibility, and difficulty getting the laptop and the projector to communicate. The audience is often subjected to watching the speaker figure out screen resolution or laboriously route through their folders searching for their talk. Multiply these problems by the number of speakers during an all day meeting, and one can imagine the impact of both the delays and the “perceived professionalism” of the speakers. Offered as a case history, the author provides a “conference protocol” for dealing with a number of digital presentations by different speakers. Jim Koepfler is a medical photographer and application specialist in the Department of Orthopaedic Surgery at Children’s Hospital in Boston, MA. As the sole photographer in the department, Jim is responsible for all the imagery for physicians and staff in the department. Jim has been with the department for 25 years.

Submit that Paper Electronically
Dan Austin, Oregon Health & Science University, Portland, OR
Electronic submission of manuscripts is revolutionizing scientific publication. Three years ago only a handful of publications accepted electronic submissions. Today, most scientific journals strongly encourage electronic submissions. Even the addition of non-traditional supplementary material such as movies and large databases is becoming commonplace with electronic submission. Submission of illustrations is not as straightforward as it is for text in the digital world. Color, file mode and format, legibility and reproducibly are critical for a successful electronic submission. In this session I will discuss the different methods of electronic submission and how to create illustrations that are ready for a successful submission, review and publication. Dan Austin has worked in research for over 25 years, and has BA and MS degrees in Biology. During his first 15 years he conducted research in Biochemistry, Histology and Neurobiology. In 1994 he was asked to create a graphics core at CROET. He currently serves 15 faculty and over 100 researchers, producing figures and movies for publications, presentations and meetings, as well as developing new communications techniques.
Digital Wound Image Protocol
Brian Demings, Shriners Hospitals for Children, Portland, OR
This presentation will discuss the management of digital captures of intra-op and wound images, stressing the importance of knowing where you stand legally, managing data in a litigious society, and improving patient care. The following points will be covered; “The Driving Forces Behind Ineligible Documentation”, Legal Exposure, Basics of “Rules of Evidence”, File Type Classification, Tools: Forms, Retrieval and Equipment, Patient Preparation. Brian Demings is Senior Media Specialist and Manager of Graphic Arts at Shriners Hospitals for Children-Portland, Oregon. He is Co-Chair of The Media Services Work Group, and is tasked with converting the 22 hospital proprietary visual communications departments from analog to digital. Brian is the author of the article “The Psychological and Physiological Impact of Color in Healthcare Environments,” and Co-author of “Documentation of Joint Motion.”

Intelligent Digital Imaging
Dennis DaSilva, Canfield Scientific, Fairfield, NJ
Digital imaging has made photographic information easier to acquire and more readily available than ever before. Analysis and quantification of this information has led to many new applications for imaging. Quantification of image data includes skin feature counts, lesion analysis, hair density counts, photo-damage assessment, depth, and volumetric data. The presenter will review current technology in this space and present actual case studies. Attendees will leave with knowledge of what state of the art is in digital image analysis and which technologies to apply when quantifying photographic data. Dennis P. DaSilva, B.S., has worked in the field of medical and clinical research documentation for more than ten years. He is currently Director of Research and Development for Canfield Scientific, Inc. He specializes in meeting the changing photographic needs of the clinical practice and research environments, which includes: the conception, development, design and implementation of a wide range of imaging solutions. He also serves as senior technical advisor to the company’s clinical research, production and direct sales teams.

Fundus Photography & Fluorescein Angiography
Dennis E. Frye Jr., Springfield Clinic Eye Institute, Springfield, IL
This presentation will provide an overview of fundus photography and retinal fluorescein angiography. The presentation will include historical aspects, techniques, review and interpretation of case studies and the relevance and significance of fundus photography and retinal fluorescein angiography to the field of ophthalmology today. Dennis Frye is an Ophthalmic Photographer/Retinal Angiographer. He studied commercial and medical photography in college and has had many of his clinical works published. He has been an instructor of digital photography for Daimler/Chrysler and is a digital retoucher. He is a member of both BCA and OPS.

Further 3D Sea Adventures
John Roll, MD
Here’s an opportunity to experience the beauty and majesty of ocean creatures without getting wet! John Roll’s presentation provides a breathtaking look into the sea in 3D! John Roll, M.D. is a Diagnostic and Interventional Neuroradiologist from Portland, OR. He began taking stereo photographs at age 16 using his father’s Stereo Realist camera. In 1996 he became certified in scuba diving in order to be able to photograph underwater in stereo. He has three customized camera systems for underwater stereo photography. Dr. Roll has presented underwater stereo slide shows in Chicago, San Francisco, Austria, Zurich, Switzerland, Sydney and Melbourne, Australia. His first underwater stereo slide show took first place at the International Stereoscopic Union Congress in 1999 in Lindau, Germany. With his second slide show in 2003, in Besancon, France, he again took first place. John is a member of the Cascade Stereoscopic Club, Inc. The CSC in Portland, Oregon is a non-profit 501(c)(3) public corporation devoted to all aspects of stereo photography, and is the founder and sponsor of the 3D Center of Art and Photography, a non-profit museum/gallery that features the best in antique and contemporary 3D imagery. The Center houses everything from antique stereocards to View Master, contemporary 3D photography, lenticulars, anaglyphs, and computer-generated 3D art. It is, perhaps, the only enterprise of this genre worldwide.

iLife Software Overview
Joshua Cooper
Joshua Cooper is a student from Oceanside, New York. He is an enthusiastic user of Apple’s iLife software and will share with us his expertise using iPhoto, iTunes, Garageband, iMovie and iDVD. He will demonstrate how these software applications work together to create finished products.

Maximizing the Power of Photoshop's Masking Tools
Phil Bard, Cirrus Digital Imaging, Lake Oswego, OR
This presentation will deal with the use of Photoshop's extremely powerful masking capabilities. By using the various types of masks, including Layer, Adjustment Layer, QuickMask and Alpha Channel masks, one can elevate an image from ordinary to spectacular in just a few easy steps. There is virtually no limit to what can be achieved when these tools are incorporated into one's workflow. You now have unprecedented control over highlights, shadows, contrast and color balance in any physical region of the image or area of the tonal range. Your images will be as good as you can imagine them. Phil Bard is owner of Cirrus Digital Imaging. Cirrus supplies fine B&W and color printing, and retouching and drum scanning to the artistic and commercial community in Portland as well as clients nationwide. He is a founding member of the Digital Printmakers Guild, an organization that fosters high standards in the business of digital imaging. He ran commercial photography studios in LA and Portland for 15 years and currently markets his personal work, landscapes in B&W produced via digital methods, to galleries across the country. He has used PhotoShop professionally for nearly 15 years.
### Workshops — Sunday, July 24

<table>
<thead>
<tr>
<th>Session 1</th>
<th>Session 2</th>
<th>Session 3</th>
<th>Session 4</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>8:00 - 9:50 AM</strong></td>
<td><strong>10:00 AM - 12:00 PM</strong></td>
<td><strong>1:00 - 2:50 PM</strong></td>
<td><strong>3:00 - 5:00 PM</strong></td>
</tr>
<tr>
<td>3. Implementing Color Management in Photoshop (Brighton)</td>
<td>7. 3D Image Capture - to extract volumetric and distance information (Brighton)</td>
<td>11. Implementing Color Management in Photoshop (Brighton)</td>
<td>15. 3D Image Capture - to extract volumetric and distance information (Brighton)</td>
</tr>
</tbody>
</table>

*A Continental Breakfast will be provided for workshop participants. Lunch is on your own.*

### Workshop Abstracts

**Cyanotype Workshop “1840’s printing technique meets digital negatives”**

**Bruce McCaughey, University of British Columbia**

This workshop is a creative combination of modern technology and a 19th century print technique. The participants will have an opportunity to convert one of their digital images to a digital negative and then coat, dry and contact print the negative onto water color paper. This workshop offers a combination of demonstration and hands-on activities. Upon completing the workshop participants will be able produce a cyanotype prints from a digital negative with a minimal amount of equipment and cost. Participants should bring one of their own digital images. The files should be 300 PPI 5x7 inch grayscale images saved as JPEGs. Bruce McCaughey’s passion for alternative photography started in the 70s when he first saw a gallery show of albumen prints by Francis Frith. The clarity and depth of the prints are still unmatched by today’s B&W printing methods. Since then, Bruce has worked with gum prints, cyanotype, salted paper, Kallitype, Van Dyke and other alternative processes. In order to pay the bills to support his passion, he have worked as a photographer at the Faculty of Dentistry, University of British Columbia.

**Psychology Behind Group and Location Photography**

**Zuhair Kareem, Johns Hopkins University**

Photographing a large group of people is something most of us have to do at one time or another, whether in our professional careers or in our personal life. For many it can be a stressful undertaking. By following some simple guidelines and putting some extra thought into our efforts, we can not only produce memorable photographs but also document, and preserve for posterity, memorable occasions. Our customers will be satisfied and you might be less nervous about, and even excited about your next group photo assignment. This presentation will discuss and describe this thought process, techniques will be demonstrated, and participants will get some hands-on experience.

**Presentation Graphics**

**Sam Giannavola, University of Arkansas Medical Sciences**

What makes a good slide? Pretty colors, pretty text, lots of information? Maybe not. This workshop will look at what constitutes a good slide and how to determine that. Feel free before the meeting to e-mail your examples of really good slides and really bad slides to the workshop leader. If time permits we’ll critique these images.
Implementing Color Management in Photoshop
Anne Taylor, Chromix Corp.

If one wants to implement color management into their workflow, Adobe Photoshop is a good place to start. The challenge is making sense of all the color management options and selecting the best choice to suit your workflow. This session unravels the mystery of color management and Photoshop's color management options so that predictable quality output can be obtained.
## Meeting at a Glance

<table>
<thead>
<tr>
<th>Thursday, July 21</th>
<th>Friday, July 22</th>
<th>Saturday, July 23</th>
<th>Sunday, July 24</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00  BCA Website Redesign Brainstorm</td>
<td>6:45-7:45 AM Full Buffet Breakfast</td>
<td>4:30 - 8:00 AM - PreDawn Adventure</td>
<td>Workshops</td>
</tr>
</tbody>
</table>
| 10:00 Certification Committee Meetings | 8:00 Welcome **Keynote Address**  
*James Henderson*  | 8:00 Technical Program | 8:00 - 9:50  
**Session 1** |
| 1:00  Registration Opens | 8:00-4:00 Certification Exams | 8:00-4:00 Certification Exams | 10:00 - 12:00  
**Session 2** |
| 1:00-5:00  Board of Governors Meeting | 9:00  Technical Program | 10:00  Break | 1:00 - 2:50  
**Session 3** |
| 6:00  Opening Reception  
Music by Celtic Muse | 10:00  Break | 11:30 -1:30  
Commercial Exhibits | 3:00 - 5:00  
**Session 4** |
| 7:00  BioImages Awards Ceremony | **Technical Program**  
10:20 | **Technical Program**  
11:30 | **Technical Program** |
|  | 11:00  Group Photograph | 12:00-1:00  
Lunch on your own |  |
|  | 11:30  Lunch and Business Meeting  
Town Hall Meeting | 1:30  Technical Program |  |
|  | 1:00  Technical Program | 2:45  Break |  |
|  | 3:00  Break | 3:00  Technical Program |  |
|  | 3:20  Technical Program | 4:30-5:30  
**Pioneer Lecturer**  
*Stephen Johnson* |  |
|  | 5:30 End of Friday Program  
Enjoy Portland! | 6:30  Honors Reception |  |
|  |  | 7:30  Honors Dinner |  |

---

**Equipment and Support for this Meeting Provided by:**

- brightline.
- H A S S E L B L A D
- Nikon
- NORITSU
- DSL
- JVH Technical LLC