

Incorporating the Journal of Biological Photography

PUBLISHED BY The Journal of Biocommunication, Inc. Nancy Hurtgen (Business Manager) 220 Southwind Lane Hillsborough, NC 27278 Phone: 919-245-0908 Fax: 919-245-0906 JBCoffice@aol.com http://www.jbiocommunication.org

INCORPORATING THE Journal of Biological Photography

IN ASSOCIATION WITH

Association of Biomedical Communications Directors (ABCD) c/o James C. Huff University of Colorado Health Science Center 4200 E. Ninth Ave Box A066 Denver CO 80262 303-315-7144 jim.huff@uchsc.edu http://www.abcdirectors.org/index.htm

Association of Medical Illustrators (AMI) P.O. Box 1897 Lawrence, KS 66044 U.S.A. Phone: 866-393-4AMI Fax: 785-843-1274 hq@ami.org http://www.ami.org

Australian Institute of Medical and Biological Illustration (AIMBI) c/o Julie Murray

Director, Medici Graphics St Vincent's Hospital Sydney 230 Barcom Ave NSW 2010 Australia (612) 838-22168 jmurray@stvincents.com.au http://www.aimbi.org.au

BioCommunications Association (BCA) 220 Southwind Lane Hillsborough, NC 27278 (919) 245-0906 phone/fax office@bca.org http://www.bca.org

Health Sciences Communications Association (HeSCA) c/o Eastern Business Service 39 Wedgewood Drive, Suite A Jewett City, CT 06351 (860) 376-8150 Fax (860) 376-6621 http://www.hesca.org

Direct editorial communications to the respective Association Editors:

ABCD Editor: Manny Bekier, Biomedical Communications, SUNY Downstate Medical Center, 450 Clarkson Avenue, Box 18, Brooklyn, NY 11203, (718) 270-7551

AIMBI Editor: Julie Murray, Medici Graphics, St. Vincent's Hospital, Victoria St., Darlinghurst NSW AU, 2010, (02) 8382 2168

AMI Co-Editor: Gary Lees, Art as Applied to Medicine, Johns Hopkins School of Medicine, 1830 E. Monument, St. Suite 7000, Baltimore, MD 21093, (410) 955-3213

AMI Co-Editor: Mark Lefkowitz, Biomedical Visuals, 132 Oak Hill Dr., Sharon, MA, 02067, (781) 784-5293

BCA Editor: Mark Marzolf, Media Services, Shriners Hospitals for Children, Fairfax Road at Virginia Street, Salt Lake City, UT 84103, (801) 536-3750

HeSCA Editor: Lori Klein, Reference Department, National Library of Medicine, 8600 Rockville Pike, Bethesda, MD 20894, (301) 435-4891

FEATURES

- 17 Information Design and Usability Testing of a Migraine Diagnostic DVD Teaching Aid Julie Saunders BA, MScBMC, Ralph Z. Kern, MD, MHSc, FRCP(C), Linda Wilson-Pauwels, AOCA, BScAAM, MEd, EdD, Nicholas Woolridge, BFA, BScBMC, MSc
- 23 Simulation Training in Medical Education - An Opportunity for Biocommunicators Bobb Sleezer, RBP, FBCA
- 28 Effects of Compression in Digital Images Used for Image Analysis *Alan C. Opsahl and Mark W. Tengowski*
- 34 What Exactly is Digital Image Workflow? *Paul Crompton, MA, MIMI*
- 37 Ranice W. Crosby: A Tribute to Fifty Years of Teaching John Cody, MD

Journal Management Board: Gary Schnitz, Chairman (The Indiana Hand Center), Bob Turner (The Scripps Research Institute), Connie Johansen (National Geospatial Intelligence Agency), Gary Lees (Johns Hopkins School of Medicine), Lee Potts (Merck Research Laboratories), Manny Bekier (SUNY Downstate Medical Center), Gillian Duncan (Graphica Medica), Julie Murray (Medici Graphics, NSW Australia)

Managing Editor: Joe Ogrodnick, Entomology, NYS Ag. Experiment Station, Communications Services, NYSAES, 632 W. North Street, Geneva, NY 14456, (315) 787-2324

Editorial Review Board: Scott Barrows (Medical Art Associates) • Janis Brown (University of Southern California) • Susan G. Deihl (Virginia Commonwealth University) • Zina Deretsky (National Science Foundation) • Marc Dryer (University of Toronto) • Gillian Duncan (Graphica Medica) • Brian Dunham (Children's Hospital of Philadelphia) Craig Gosling (Indiana University) • Christine Gralapp (Fairfax, CA • Carol Asimow Gray (UCLA Medical Center) • Jamie Guth (World Health Organization) • Kenneth Heyman (Immersion Medical) • Tom Hurtgen (Duke Clinical Research Institute) • Dale Kennedy (VA Medical Center, San Diego, CA) • Gregory Lucier (University of Calgary) • Patrick Lynch (Yale University) • Ken Michaels (National Cancer Institute) • Steven Moon (Ohio State University) • Darisse Paquette (Tufts-New England Medical Center) • Stephen Pendry (Mary Greeley Medical Center) • Michael Peres (Rochester Institute) • Stephen Pendry (Rochester Institute of Technology) • David Rini (Johns Hopkins School of Medicine) • Sue Seif (Seif & Associates) • Bobb Sleezer (Christiana Care Health Services) • Keith Stenehjem (Mayville State University) • Bob Turrer (Austin, Texa) • Linda Wilson-Powells (University of Toronto)

Business Manager: Nancy Hurtgen (Hillsborough, NC) Webmaster and Production Group: Michael Getz (Illumina Interactive, Boston, MA)

PUBLISHER'S COMMENTS

Another season of our professional association meetings has come to an end, bringing with it once again a great opportunity to gather up those meeting papers, exhibition critiques, and workshop presentations for publication in the Journal of Biocommunication. The JBC can become a invaluable tool for not only archiving these written articles, images, and motion media, but also for sharing this information throughout the visual communication and allied-health professions. The five organizations making up our publishing consortium (ABCD, AIMBI, AMI, BCA, and HeSCA) continue to educate and empower their respective members through their annual meetings. Why not extend your annual meeting experience and share these presentations with a member of one of our other organizations, or perhaps with a member who was unable to attend the meeting.

Our Journal's 33-2 Gallery features the award-wining photographic images from the BioImages Salon at BIOCOMM 2007, the BCA's Annual Meeting, which was held in Tucson, Arizona. Be sure to check out these striking photographs and other media.

We have five articles for you in JBC 33-2 including "Simulation Training in Medical Education - An Opportunity for Biocommunicators" written by Bobb Sleezer, RBP, FBCA. This article provides an excellent overview relating to the development of training simulations. Mr. Sleezer also discusses the opportunities this particular area may hold for biocommunicators. Also featured is "Information Design and Usability Testing of a Migraine Diagnostic DVD Teaching Aid" by Julie Saunders BA, MScBMC, Ralph Z. Kern, MD, MHSc, FRCP(C), Linda Wilson-Pauwels, AOCA, BScAAM, MEd, EdD, Nicholas Woolridge, BFA, BScBMC, MSc. This article describes the development and use of a prototype physician-patient interview video.

Another article, "Effects of Compression in Digital Images used for Image Analysis" by Alan C. Opsahl and Mark W. Tengowski, describes the effects of digital image compression on photomicrographs of rat liver tissues, using the JPEG compression component of Adobe Photoshop and Media Cybernetics Image-Pro Plus. These results are analyzed and compared to an uncompressed TIFF image as the gold standard.

"What Exactly is Digital Image Workflow?" by Paul Crompton, MA, MIMI, describes the relatively new concept of Digital Image Workflow for biocommunicators.

The last one is a wonderful piece celebrating the remarkable life, legacy, and teaching of medical illustrator Ranice W. Crosby. The article entitled, "Ranice Crosby: A Tribute to Fifty Years of Teaching," was written by John Cody, M.D. Part I of the article is included here, with Part II scheduled to appear in JBC issue 33-3.

Finally, the JBC Viewpoint offers some of my personal thoughts about the business model of one of America's corporate success stories... Starbuck's Coffee.

Welcome to issue 33-2. Enjoy.

Mary Jeh

Gary Schnitz, CMI, FAMI Chair, JBC Management Board gschnitz@indianahandcenter.com