

PUBLISHED BY

**The Journal of Biocommunication, Inc.**

Carol Gray (Business Manager)  
2772 Woodwardia Drive  
Los Angeles, CA 90077  
Phone: 310-475-4708  
carolagray@gmail.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

- 3** A Biologically Inspired Mechano-optical Imaging System Based in Insect Vision  
*Susanne K. Williams BSc, BAppSci (Photography)*  
*David Reser Ph.D*  
*Adrian G. Dyer BAppSci (Photography), Ph.D*
- 8** Remembering Bob Wabnitz  
*Jim Perkins, MS, MFA, CMI, FAMI*
- 12** Designing A Web-Based Clinical Counseling Tool About Disorders Of Sex Development  
*Shelley L. Wall, AOCAD, BA, MA, MScBMC, PhD;*  
*Michael J. Wiley, BSc, MSc, PhD;*  
*Barbara J. Neilson, Res Dip SW, RSW;*  
*Jodie Jenkinson, BA, MScBMC;*  
*Gordon Tait, PhD;*  
*Darius J. Bägli, MDCM, FRCSC, FAAP, FACS*

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 Ogradnick, 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) • Jamie Guth (World Health Organization) • Kenneth Heyman (Immersion Medical) • Tom Hurtgen (Duke Clinical Research Institute) • Dale Kennedy (VA Medical Center - Albuquerque, NM) • Lori J. Klein (National Library of Medicine) • Dale Knorr (Naval 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 of Technology) • James Perkins (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 Turner (The Scripps Research Institute) • Judy Tyler (National Student Nurses Association) • Linda Warren (Austin, Texas) • Linda Wilson-Pauwels (University of Toronto)

Business Manager: Carol Gray (Los Angeles, CA)

Webmaster and Production Group: Michael Getz (Illumina Interactive, Boston, MA)

With the launch of *JBC* 34-1, the first issue of 2008, we now have fourteen online *JBC* issues available. These online issues when combined with the prior printed volumes represent a significant educational achievement, and without question have added to our professional body of knowledge.

The *JBC* Representatives from each of our five member Associations, as well as the Association Editors, have worked extremely hard to provide yet another informative issue. Please take a moment to email one of the *JBC* Board Members or Editors and let them know what you think about our latest *JBC* offering.

Our *Journal's* 34-1 Gallery features the award-winning print media, website design, and video programs from HeSCA's most recent Media Festival, which was held in Toronto, Canada, at HeSCA's 2007 annual meeting. Be sure to check out these creative and educational print pieces, web, and motion media entries. Of course, one aspect featured in our *Journal's* Gallery is the opportunity to see these motion media winners in video trailer form. As *JBC* Management Board Chair, I personally want to thank those many HeSCA producers and directors, as well as Michael Getz and Karen Henriquez, who kindly assisted with the re-creation of this Media Festival.

Included in *JBC* 34-1 is "A Biologically Inspired Mechano-optical Imaging System Based in Insect Vision," written by Susanne K. Williams, David Reser, and Adrian G. Dyer. This article recognizes that nature has devised a number of biological imaging systems that allow animals to view their surroundings. This study investigates the principle of making photographs with a mechano-optical device, which freely transmits all wavelengths of radiation, and accurately simulates the frontal foveal region of a bee's vision.

We also include a wonderful article celebrating the remarkable life, legacy, and teaching of medical illustrator Robert Wabnitz, who passed away in 2007 at the age of 82. Mr. Wabnitz had studied medical illustration under Max Brödel at Johns Hopkins University, and for many years had directed the Medical Illustration Unit at the University of Rochester in Rochester, NY. Mr. Wabnitz is fondly remembered by colleagues and former students alike as a kind, gentle man with a passion for teaching and an infectious sense of humor. The article is simply entitled, "Remembering Bob Wabnitz," and was written by Jim Perkins.

Our 34-1 *JBC* Showcase supplements Jim's tribute and highlights an excellent selection of some of Bob Wabnitz's many surgical illustrations.

We also offer the article, "Designing a Web-based Clinical Counseling Tool About Disorders of Sex Development," written by Shelley L. Wall, Michael J. Wiley, Barbara J. Neilson,

Jodie Jenkinson, Gordon Tait, and Darius J. Bägli, M.D. This article discusses the development and use of an online clinical counseling website to address the need for sensitive, highly visual, and easily understood instructional material to teach parents about disorders of sex development (DSD). During the design process, focus groups were conducted with parents at the DSD clinic of a large pediatric teaching hospital to assess the usability, optimum levels of visual complexity, and educational value of the website.

We also feature a Book Review of *Photoshop CS3 for Forensic Professionals: A Complete Digital Imaging Course for Investigators* written by George Reis. Mr. Reis is author of "Forensic Imaging - An Overview," which appeared in an earlier issue of the *JBC* (*JBC* 31:2).

The *JBC* Viewpoint offers some personal insight about survival strategies for institutional-based biomedical communication departments.

We continue to ask for your support of the *JBC*. You can assist us in this effort by submitting an article or a *JBC* Book Review for publication. In addition, we invite you to write a *JBC* Viewpoint about some aspect of your work, a personal philosophy, or something that you feel is of importance to the biomedical communication community. These Viewpoints are not intended to be fully illustrated or multi-referenced articles, but are designed to be thoughtful essays about subjects appropriate to all of us.

Finally, with this issue we warmly welcome Carol Gray as our new *JBC* Business Manager. You might remember that Carol was a *JBC* Board member some years ago, and she has now rejoined our team. Please welcome Carol back into the *JBC* family.

Sadly, we say a fond good-bye to our previous Business Manager, Nancy Hurtgen. Nancy was an important and strategic part of our management team, and she will be greatly missed. I'd like to personally thank Nancy for her exemplary service to the *JBC*, and wish her good luck.

Welcome to 34-1.



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