

SCIENTIFIC ILLUSTRATION BOOKS & REFERENCE MATERIALS

Following is a list of useful and informative books on Scientific Illustration.

This list has been compiled with the assistance of GNSI members. We have tried to be as accurate and as current as possible; however we cannot guarantee this list is either error-free or complete. We appreciate your updates; please contact the GNSI Communications Director with corrections and/or additions.

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GENERAL REFERENCE

- Barlowe, Dorothea and Barlowe, Sy. Illustrating Nature: How to Paint and Draw Plants and Animals. Dover Publications, 1997.
- Hodges, Elaine R. S., ed. The Guild Handbook of Natural Science Illustration. Wiley, 2003.
- Mayer, Ralph. The Artist's Handbook of Materials and Techniques. Viking, 1991.
- Ridgway, John L. Scientific Illustration. Stanford University Press, 1978.
- Wood, Phyllis. Scientific Illustration. Wiley, 1994.
- Zweifel, Frances. A Handbook of Biological Illustration. University of Chicago Press, 1988.

TECHNIQUES & MEDIA

COLORED PENCIL

- Borgeson, Bet. The Colored Pencil: Key Concepts for Handling the Medium, NY: Watson Guptill, 1995.
- Poulin, Bernard. The Complete Colored Pencil Book. Cincinnati: North Light Books, 1992.

COLOR

- Abers, Josef. Interaction of Color. New Haven: Yale University Press, 1971.
- Edwards, Betty. Color: A Course in Mastering the Art of Mixing Colors. NY: Tarcher/ Penguin, 2004.
- Sidaway, Ian. Color Mixing Bible. NY: Watson Guptill, 2002.

DIGITAL

- Caplin, Steve & Adam Banks. The Complete Guide to Digital Illustration. NY: Watson-Guptill, 2003.
- Monroy, Bert. Photoshop Studio with Bert Monroy: Digital Painting. New Riders Press, 2008.
- De La Flor, Mike. The Digital Biomedical Illustration Handbook. Charles River Media, 2004.

DIGITAL RESOURCES

- <http://www.adobe.com/products/photoshop/photoshop/>
<http://www.adobe.com/devnet/photoshop/>
<http://www.photoshoplab.com/>
<http://tv.adobe.com/>
<http://www.peachpit.com/>
<http://www.medillsb.com/>
<http://www.vtc.com/index.php>
<https://www.lynda.com/>
<http://kuler.adobe.com>

DIGITAL REFERENCES:

- <http://www.photoshopuser.com/>
<http://www.layersmagazine.com/>
<http://www.photoshoptv.com/>
<http://labs.adobe.com/>

DRAWING/GRAPHITE

Edwards, Betty. The New Drawing on the Right Side of the Brain: A Course in Enhancing Creativity and Artistic Confidence. NY: Tarcher/Penguin, 1999.

Dodson, Bert. Keys to Drawing. Cincinnati: North Light, 1990.

Guptill, Arthur L. Freehand Drawing Self Taught. Watson-Guptill Publications, 1984 (1933).

Lee, Katie. Fundamental Graphite Techniques. Self-published: contact artist at www.katieleeartist.com, 2010.

Montague, John. Basic Perspective Drawing: A Visual Approach. NY: Van Nostrand Reinhold, 1985.

PAINTING

Gottsegen, Mark David. The Painter's Handbook: Revised and Expanded. Watson-Guptill Publications, 2006.

PASTELS

Creevy, Bill. The Pastel Book, Materials and Techniques for Today's Artist. NY: Watson-Guptill, 1999.

McDaniel, Richard. On Location, Plein Air Painting in Pastel. International Artist Publishing, 2005.

PEN & INK

Guptill, Arthur L. Rendering in Pen and Ink. NY: Watson-Guptill, 1976.

Simmns, Gary. The Technical Pen. NY: Watson-Guptill, 1992.

SCRATCHBOARD

Cutler, Merritt. How to Cut Drawings on Scratchboard. NY: Watson-Guptill, 1968.

Ewing, Charles. The New Scratchboard. NY: Watson-Guptill, 2001.

Lozner, Ruth. Scratchboard for Illustration. NY: Watson-Guptill, 1990.

SUBJECTS

ANATOMY - HUMAN

Agur, Anne & Arthur Dalley. Grant's Atlas of Anatomy. Lippincott Williams & Wilkins, 2008.

Clemente, Carmine. Anatomy: A Regional Atlas of the Human Body. Lippincott Williams & Wilkins, 2010.

Cody, John. Visualizing Muscles: A New Ecorche Approach to Surface Anatomy. University Press of Kansas, 1991.

Cody, John. Atlas of Foreshortening: The Human Figure in Deep Perspective. Wiley, 2002.

Cunningham, Daniel John. Cunningham's Textbook of Anatomy. Oxford University Press, 1981.

Fairley, Robert. Drawing and Painting Hands & Feet. Watson-Guptill,

Goldfinger, Eliot. Human Anatomy for Artists: The Elements of Form. Oxford University Press, 1991.

Goodsell, David. The Machinery of Life. Springer, 1997.

Gordon, Louise. How To Draw the Human Figure: An Anatomical Approach. Penguin (Non-Classics), 1980.

Gordon, Louise. How To Draw the Human Head: Techniques and Anatomy. Penguin (Non-Classics), 1983.

Moore, Keith; Anne Agur, Arthur Dalley. Clinically Oriented Anatomy. Lippincott Williams & Wilkins, 2009.

Netter, Frank. Atlas of Human Anatomy: Professional Edition. Saunders, 2010.

Netter, Frank. Collection of Medical Illustrations (8 Volumes/13 Books), CIBA.

Putz, Reinhard. Sobotta Atlas of Human Anatomy. Lippincott Williams & Wilkins, 2008.

Rohen, Johannes et al. Color Atlas of Anatomy: A Photographic Study of the Human Body. Lippincott Williams & Wilkins, 2006.

Simblet, Sarah. Anatomy for the Artist. DK Adult, 2001.

Tank, Patrick. 2008. Grant's Dissector. Lippincott Williams & Wilkins, 2008.

ANIMALS/ANIMAL ANATOMY

Calderon, Frank. Animal Painting and Anatomy. Dover Publications, 1975.

Ellenberger, W, & Brown, Lewis. An atlas of animal anatomy for artists. Dover Publications, 1956.

Evans, Howard & Lahunta, Alexander. Guide to the Dissection of the Dog. Saunders, 2009.

Fairley, John. The art of the horse. Abbeville Press, 1995.

Knight, Charles. Animal Drawing: Anatomy and Action for Artists. Dover Publications, 1959.

Muybridge, Eadweard. Animals in Motion. Dover Publications, 1957.

Norman, Adams & Singer, Joe. Drawing Animals. Watson Guptill, 1989.

Seton, Ernest Thompson. Art Anatomy of Animals. Dover Publications, 2006.

Stubbs, George. The Anatomy of the Horse. Pallas Athene, 2005.

BOTANICAL: Artists: Botanical Art and Illustration

Glimn-Lacey, Janice & Peter B Kaufman. Botany Illustrated. Springer, 2006.

Sherwood, Shirley. A Passion for Plants. London: Cassel and Co., 2001.

Sherwood, Shirley. Contemporary Botanical Artists. New York: Cross River Press, 1996.

Showell, Billy. Watercolour Fruit & Vegetable Portraits. Search Press, 2009.

Zomlefer, Wendy B. Guide to Flowering Plant Families. The University of North Carolina Press, 1995.

BOTANICAL: History of Botanical Art and Illustration

Jonas, Patricia. Drawing From Life: Maud Purdy and 90 years of Women Artists at Brooklyn Botanic Gardens. NY: Brooklyn Botanic Gardens, 2007.

Mabberley, David. Arthur Harry Church: The Anatomy of Flowers. Merrell, 2000.

Sherwood, Shirley. A New Flowering: 1000 Years of Botanical Art. Oxford: The Ashmolean, 2005.

Stiff, Ruth. 1997. Margaret Mee: Return to the Amazon. HMSO Books

Burger, Thomas (ed.). 1999. Maria Sibylla Merian : New Book of Flowers. Prestel Publishing, Facsimile edition

Redoute, Pierre-Joseph. 2007. The Roses: The Complete Plates. Taschen

Besler, Basilius. 2001. The Garden at Eichstatt. Taschen

Swan, Claudia. 1998. Clutius Botanical Watercolors. Harry N. Abrams

Blunt, Wilfrid. 1994. The Art of Botanical Illustration. Dover Publications

BOTANICAL: Techniques

From Penstemons to Pines: Techniques Illustration the Native Plants of the Rocky Mountain Region. Denver Botanic Gardens, 2010.

Hollender, Wendy. Botanical Drawing in Color: A Basic Guide to Mastering Realistic Form and Naturalistic. Watson Guptill Publications, 2010.

King, Bente Starcke. Beautiful Botanicals: Painting and drawing Flowers and Plants. North Light Books, 2004.

Martin, Rosie & Meriel Thurstan. Botanical Illustration Course with the Eden Project. Batsford, 2008.

Martin, Rosie & Meriel Thurstan. Contemporary Botanical Illustration: Challenging Colour and Texture. Batsford, 2008.

Rodwell, Jenny. Flower Painting: 25 flower painting illustrated step-by-step, with advice on materials and techniques. Booksales, 2000.

Showell, Billy. A-Z of Flower Portraits: An Illustrated Guide to Painting 40 Beautiful Flowers in Watercolour. Search Press, 2010.

Stevens, Margaret. The Art of Botanical Painting. Harper Collins, 2005.

Stevens, Margaret. The Botanical Palette. Harper Collings, 2007.

West, Keith. How to Draw Plants, The techniques of botanical illustration. Timber Press, 2005.

Wunderlicht, Eleanor. Botanical Illustration in Watercolor. Watson-Guption, 1996.

BUSINESS

Crawford, Tad. Business and Legal Forms for Illustrators. Allworth Press, 2004.

Foot, Cameron. The Business Side of Creativity: The Complete Guide for Running a Graphic Design or Communications Business. W. W. Norton & Company, 2002.

Godin, Seth. All Marketers Are Liars. Portfolio Hardcover, 2009.

Godin, Seth. Purple Cow: Transform Your Business by Being Remarkable. Portfolio Hardcover, 2009.

Gerber, Michael. The E-Myth Revisited: Why Most Small Businesses Don't Work and What to Do About It. Harper Collins, 1995.

Graphic Artists Guild Handbook: Pricing & Ethical Guidelines. Graphic Artists Guild, 2007.

Heller, Steven & Marshall Arisman. The Education of an Illustrator. Allworth Press, 2000.

Hyatt, Carole et al. When Smart People Fail : Rebuilding Yourself for Success. Penguin Books, 1993.

Perkins, Shell. Talent Is Not Enough: Business Secrets For Designers. New Riders Press, 2010.

Port, Michael. Book Yourself Solid: The Fastest, Easiest, and Most Reliable System for Getting More Clients Than You Can Handle Even if You Hate Marketing and Selling. Wiley, 2008.

Ross, Maria. Branding Basics for Small Business. NorlightsPress.com, 2010.

BUSINESS: Online Resources

<http://www.creativebusiness.com/>

<http://www.graphicartistsguild.org>

<http://www.creativefreelancerconference.com/GeneralMenu/>

<http://sethgodin.typepad.com/>

<http://www.marketing-mentor.com/>

CHARTS AND DIAGRAMS

Holmes, Nigel. Designer's Guide to Creating Charts & Diagrams. Watson-Guptill Publications, 1991.

Robertson, Bruce. How to Draw Charts & Diagrams. North Light Books, 1988.

Robinson, Arthur. Elements of Cartography. Wiley, 1995.

Tyner, Judith. Principles of Map Design. The Guilford Press, 2010.

DESIGN /PERSPECTIVE

Design and Composition Secrets of Professional Artists. International Artist Publishing, 2001.

Elam, Kimberly. Geometry of Design. NY: Princeton Architectural Press, 2001.

Tufte, Edward. Envisioning Information. Graphics Press, 1990.

Tufte, Edward R. The Visual Display of Quantitative Information. Graphics Press, 2001.

Tufte, Edward R. Visual Explanations: Images and Quantities, Evidence and Narrative. Graphics Press, 1997.

White, Gwen. Perspective: a Guide for Artists, Architects and Designers. Batsford, 2004.

Williams, Robin. The Non-Designer's Design Book. Peachpit Press, 2008.

FIELD SKETCHING/NATURE DRAWING

Brady, Irene. Illustrating Nature: Right-Brain Art in a Left-Brain World. Nature Works, 2004.

Hay, John & Christopher Merrill. The Way to the Salt Marsh. UPNE, 1998.

Hendrix, Lee & Thea Vignau-Wilber. Nature Illuminated - Flora and Fauna from the Court of the Emperor Rudolf II. J. Paul Getty Museum, 1997.

Hinchman, Hannah. A Life In Hand: Creating the Illuminated Journal. Gibbs Smith, 1999.

Hinchman, Hannah. A Trail Through Leaves: The Journal as a Path to Place. Norton & Company, 1999.

Johnson, Cathy. The Sierra Club Guide to Sketching in Nature. Sierra Club Books, 1997.

Koch, MaryJo. Pond, Lake, River, Sea. Smithmark Publishers, 1999.

Leslie, Clare Walker. The Art of Field Sketching. Kendall/Hunt Publishing Company, 1995.

Leslie, Clare Walker. Keeping a Nature Journal. Storey Publishing, 2003.

Leslie, Clare Walker. Nature Drawing: A Tool for Learning. Prentice Hall, 1980.

Maltzman, Stanley. Drawing Nature. Cincinnati: North Light Books, 1998.

Maltzman, Stanley. Drawing Trees Step by Step. Cincinnati: North Light Books, 1999.

Nice, Claudia. How to Keep a Sketchbook Journal. Cincinnati: North Light Books, 2001.

Sullivan, Chip. Drawing the Landscape. Wiley, 2004.

Tunncliffe, C.F. Sketchbook of Birds. Weidenfeld & Nicolson, 1999.

LETTERING/TYPOGRAPHY

Burghurst, Robert. The Elements of Typographic Style. Hartley and Marks Publishers, 2004.

Cavanagh, Albert. Lettering and Alphabets. Dover Publications, 1955.

Craig, James. Designing with Type: The Essential Guide to Typography. Watson-Guptill, 2006.

Lupton, Ellen. Thinking With Type. Princeton Architectural Press, 2010.

Spiekermann, Erik & Ginger, E. Stop Stealing Sheep & Find Out How Type Works. Adobe Press, 2002.

Williams, Robin. The Mac Is Not A Typewriter. Peachpit Press, 2003.

Williams, Robin. The Non-Designer's Type Book. Peachpit Press, 2007.

MEDICAL ART

Cody, John & Janice Crosby. Max Brodel : The Man Who Put Art into Medicine. Springer, 1991.

Da Vinci, Leonardo. Leonardo on the Human Body. Dover Publications, 1983.

Hansen et al. The Physician's Art: Representations of Art and Medicine. Duke University Press, 2000.

Hale, Robert & Terence Coyle. Albinus on Anatomy. Dover Publications, 1989.

Hale, Robert et al. Anatomy Lessons from the Great Masters. Watson-Guptill, 2000.

Kemp, Martin & Marina Wallace. Spectacular Bodies: The Art and Science of the Human Body from Leonardo to Now. University of California Press, 2000.

O'Malley, Charles & J. Saunders. The Illustrations from the Works of Andreas Vesalius of Brussels. Dover Publications, 1973.

Petherbridge, Deanna & Ludmilla Jordanova. The Quick and the Dead: Artists and Anatomy. University of California Press, 1998.

Von Düring, Monika. Encyclopedia Anatomica : A Complete Collection of Anatomical Waxes. Taschen/Penguin, 2001.

NATURAL HISTORY ILLUSTRATION

Berger, John. Albrecht Dürer: Watercolours and Drawings. Taschen, 1997.

Clayton, Martin et al. Amazing Rare Things, The Art of Natural History in the Age of Discovery, Kales Press, 2009.

Dance, Peter S. The Art of Natural History. Gramercy, 1990.

Ford, Brian J. Images of Science: A History of Scientific Illustration. Oxford University Press, 1993.

Hyman, Susan. Edward Lear's Birds. Borders Press, 1989.

Lear, Linda. Beatrix Potter : A Life in Nature. St. Martin's Griffin, 2008.

Lee, Jennifer & Mandelbaum, Miriam. Seeing is Believing, 700 Years of Scientific and Medical Illustration. New York Public Library, 1999.

Mabberley, David. Ferdinand Bauer: The Nature of Discovery. Merrell, 2003.

O'Malley, Therese & Meyers, Amy. The Art of Natural History: Illustrated Treatises and Botanical Paintings 1400-1850. Washington National Gallery of Art, 2010.

Ostrom John et al. Marsh's Dinosaurs : The Collections from Como Bluff. Yale University Press, 2000.

Pinault, Madeleine. The Painter as Naturalist. Flammarion, 1991.

Rice, Tony. Voyages of Discovery: A Visual Celebration of Ten of the Greatest Natural History Expeditions. Firefly Books, 2008.

OTHER

Tufte, Edward R. Visual Explanations: Images and Quantities, Evidence and Narrative. Cheshire, CT: Graphics Press, 1997.

Ziegler, Kathleen and Nick Greco. Paper Sculpture: A Step-By-Step Guide. Southampton, PA: Dimensional Illustrators, Inc. 1994.

PALEONTOLOGY/ PALEOBOTANY

Boardman, Richard S; Alan H. Cheetham & Albert J. Rowell. Fossil Invertebrates. Blackwell Scientific Publications, 1987.

Carroll, Robert L. Vertebrate Paleontology and Evolution. W.H. Freeman and Co., 1988.

Isham, Lawrence B. Preparation of Drawings for Paleontological Publication: A Handbook of Paleontological Techniques, W.H. Freeman & Co., 1965.

Nield, E.W. Drawing and Understanding Fossils: A Theoretical and Practical Guide for Beginners with Self-Assessment. Pergamon Press, 1987.

Rudwick, Martin. Scenes from Deep Time: Early Pictorial Representations of the Prehistoric World. The University of Chicago Press, 1992.

Taylor, Thomas N; Edith L. Taylor & Michael Krings. Paleobotany: The Biology and Evolution of Fossil Plants, Second Edition. Elsevier Inc., 2009.

PRODUCTION

Bruno, Michael. Pocket Pal: A Graphic Arts Production Handbook. Graphic Arts Technical Foundation, 2007.

Cost, Frank. Pocket Guide to Digital Printing. Delmar Cengage Learning, 1996.

Craig, James. Production for the Graphic Designer. Watson-Guption, 1990.