

MICROSCOPY FOR CHILDREN: A BIBLIOGRAPHY UPDATE, APRIL, 2001

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One of Murphy's Laws says that whenever something is published, it is immediately out of date. Project MICRO's "Microscopy for Children: a Bibliography", which was distributed with the December issue of this publication is no exception. I have been contacted recently about a few CD-ROMs that will interest many readers. Since the web version of the bibliography (URL below) will not be updated for a while, I am providing listings as follows.

IV. CD-ROMs

Edmark Corp. 1998 Zap! \$29.95, with a 50 page users' manual, from Edmark at PO Box 97201, Redmond, WA 98073-9721, 800-320-8379, www.edmark.com. For Macintosh or Windows 3.1 or 95.

Subtitled "Save the show with sound, light, and electricity", this CD-ROM is sure to capture the interest of a computer game-addicted middle schooler. All three topics are introduced in game format, complete with levels of complexity. In the optics section, laser beams are aimed with mirrors, lenses, prisms, and filters; the targets are eggs that hatch into cute monsters when activated by the beam. It actually does a very good job of teaching reflection, refraction, absorption, and color. The player who works through all levels of all three units then can set up the light show for a concert, and even manipulate the sound. It's much too time consuming to use in the classroom, but would be a delight for home use. There is am-

ple reference material, and homeschool parents can set options to control complexity. Middle school. RECOMMENDED

Excalibur Mineral Company 1999 Photographic Guide to Mineral Species \$69.95+ \$4.00 shipping from Excalibur at 1000 North Division St., Peekskill, NY 10566, www.bestweb.net/~excalmin. For Windows or Mac; requires Netscape Communicator (included).

This is an "adult" CD, but the superb photos make it an excellent visual supplement for a student who is learning about crystals and other minerals. It's truly a "coffee table book" on a CD with an unbelievable 5400 photos, which search and load rapidly in Netscape (and not at all in Internet Explorer). There is an eye-catching 300 image automatic slide show which can be set to play continuously. Images can be searched by location or mineral content. They are mostly micromounts, photographed at dissecting scope magnifications. Descriptions are minimal; it isn't intended as a textbook substitute. Adult. RECOMMENDED

ScienceWorks 1999 SlideWorks Beginner Slides \$29.95 + shipping, from Carolina Biological Supply, PO Box 6000, Burlington, NC 27216-6000, 800-334-5551 as #398713, or directly from ScienceWorks, 808 Retford Circle, Winston-Salem, NC, 800-478-8476. For Mac or Windows; hard drive installation recommended.

45 common specimens (microorganisms, various cells, thread, kitchen spices and crystals, newsprint, etc.) can be moved from a slide box to a microscope stage, focused, and viewed at three magnifications in a realistic manner. Good quality full-screen images can be selected, and a student can draw an image, take notes, and print the result. Regrettably, it isn't possible to move the slide on the stage, which can teach a beginner how to manipulate the inverted image of a compound scope. The brief descriptive text for each specimen could be more helpful (e.g., we should be told that the scope optics reverse the image of the letter "e", rather than that it is the commonest letter). There are quizzes, simple games, a pronouncing glossary with both simple and complex terms, and a link to the ScienceWorks website, www.scienceclass.com, which has supplemental educational content. Probably middle school.

V. WorldWideWeb

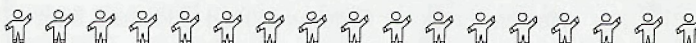
Crystals: <http://home.att.net/~seberhard>
<http://www.ScienceArt.nl>

Home-made microscope:
<http://freeweb.pdq.net/headstrong/micro.htm>

Sand: <http://www.ScienceArt.nl>

K-12 Microscopy Resources:
<http://swehsc.pharmacy.arizona.edu/exppath/>

To review the full bibliography, visit Project MICRO at:
<http://www.msa.microscopy.com/ProjectMicro/PMHomePage.html>



Readers: Help!!!

While the objective of this publication remains, perhaps unlike some others, to provide articles and material of interest and value to the working microscopist, we find ourselves badly in need of such material.

Your contributions would be greatly appreciated or, perhaps, you know someone who could add to the value of the publication and could recommend such contributions. Your assistance would be MUCH appreciated!

... Don Grimes, Editor



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COMING EVENTS

YEAR 2001 APPLIED OPTICAL MICROSCOPY CALENDAR Smithsonian Ctr for Materials Research & Educ. (Suitland, MD)

- ✓ May 14/18: Microscopy of Protective and Decorative Coatings
 - ✓ July 16/20: Polarized Light Microscopy—Fundamentals & Applications
 - ✓ Aug. 14/16: Interpretation of Archaeological metals
 - ✓ Aug. 20/24: Wood Anatomy and Identification
 - ✓ Sept 17/21: Microscopy of Protective and Decorative Coatings
- For further information: Ms. Francine Lewis: (301)238-3700 X102

YEAR 2001 McCRONE RESEARCH INSTITUTE SCHEDULE:

- ✓ May 30/June 1: Fluorescence Microscopy
 - ✓ Sept. 5/7: Microtomy
 - ✓ Sept. 10/14: Advanced FTIR Microscopy
 - ✓ Sept. 24/26: Caking of Crystals
 - ✓ Nov. 5/9: Particle Isolation, Manipulation and mounting for Additional Analysis
 - ✓ Nov. 12/16: Scanning Electron Microscopy
- For further information, contact Ms. Nancy Daerr: (312)842-7100, Fax: (312)842-1078, eMail: ndaerr@mcri.org

✓ May 5/7 '01: **SCANNING 2001**: (FAMS) New York City, Paula Pivnick : (201)818-1010, scanning@fams.org

✓ May 6/10 '01: **Modern Developments and Applications in Microbeam Analysis (EMAS)**, Tampere, Finland, www.emas.ac.uk/

✓ May 9/11 '01: **Workshop on Quantitative Image Analysis** NC State Univ.), Raleigh, NC <http://www.ncsu.edu/cpe>

✓ May 10/12 '01: **SEM Specimen Preparation School** (Gatan) Pleasanton, CA, <http://gatan.com>

✓ May 10/18 '01: **Analytical & Quantitative Light Microscopy** Marine Biological Laboratory) Woods Hole, MA. (508)289-7401

✓ May 13/16 '01: **Food Structure & Functionality Symposium 2001**, Minneapolis, MN. eMail: meeting@AOCS.org

✓ May 21/23 '01: **Immunogold Workshop**, (Penn State Univ.) University Park, PA. Hong Yi: (404)727-8692

✓ May 21/25 '01: **FE-SEM and Image Analysis Courses** Montreal, Canada. Dr. Pierre Hovington: (450)652-8125, eMail: hovington.pierre@ireq.ca

✓ May 22/24 '01: **Fundamentals of Asbestos Analysis by TEM** (MVA, Inc.) Norcross, GA, Jim Millette: (770)662-8509

✓ May 22/29 '01: **Microinjection Techniques In Cell Biology** (Marine Biological Laboratory) Woods Hole, MA. (508)289-7401

✓ June 6/8 '01: **Workshop on Quantitative Image Analysis** NC State Univ.), Taastrup, Denmark, <http://www.ncsu.edu/cpe>

✓ June 6/8 '01: **Microscopical Society of Canada Annual Meeting** Fredericton, New Brunswick, Canada, <http://www.unb.ca/msc2001>

✓ June 8/10 '01: **FRET and FLIM: Advanced Fluorescence Techniques for Biological Imaging**. (U. of T. Health Science Ctr) San Antonio, TX, <http://usa.hamamatsu.com/fretflim>

LEHIGH MICROSCOPY SCHOOL

- ✓ June 11/15 '01: SEM and X-ray Microanalysis
- ✓ June 10, '01: Introduction to SEM and EDS
- ✓ June 18/22 '01: Advanced Scanning Electron Microscopy
Quantitative X-ray Microanalysis
- ✓ June 18/21 '01: Analytical Transmission Electron Microscopy
- ✓ June 19/21 '01: TEM Specimen Preparation
- ✓ June 19/22 '01: Atomic Force Microscopy

For further information, contact Ms. Sharon Coe at: tel.: (610)758-5133, fax: (610)758-4244, eMail: sharon.coe@lehigh.edu

✓ June 17/22 '01: **3rd Annual Course in Quantitative Fluorescence Microscopy** Arcadia Nat'l Park, ME, Simon C. Watkins: (412)648-3051

Laboratory Specialist Senior

(Electron Microscopy Technician)

Agricultural Research Station

Position Number: 00804

Salary Range: \$26,772 to \$54,842

DUTIES AND RESPONSIBILITIES: Newly established electron microscopy research laboratory with TEM, SEM, and X-Ray analysis. Seeking highly experienced person with skills in operating SEM, TEM, and X-Ray analysis systems and to perform all aspects of biological electron microscopy procedures such as ultramicrotomy, immunological labeling, immunostaining, image processing, etc. Computer skills and proficiency in both written and verbal communications is required. Should be highly motivated and able to work with minimum supervision. The ability to work effectively and congenially with the EM supervisor, research and teaching faculty, staff, and students is essential. The experience to maintain microscopes and equipment is needed.

QUALIFICATIONS: Bachelor of Science degree and evidence of considerable experience in the operation of SEM, TEM, and X-Ray analysis is required. However, recent graduates from an electron Microscopy Program will be considered. An expertise in non-biological EM is a plus.

Interested persons should submit a Commonwealth of Virginia Application for Employment (DPT Form 10-012) to Virginia State University, Office of Human Resources, P.O. Box 9412, Room 101, Virginia Hall, Petersburg, VA 23806. All applications must be received by 5:00 P.M., Friday, May 18, 2001. Faxed or eMailed copies will not be accepted or considered. State applications may be obtained by downloading from www.dpt.state.va.us/statefrm.htm.

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