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Metamorphic Textures I -- John Winter, Whitman College; powerpoint presentation with figures from Chapter 23 of Winter's Igneous and Metamorphic Petrology textbook. Mogk, Dept. Fun with Asbestos -- Dexter Perkins, Univ. Back to Top Petrography--Analysis of Rocks in Thin Section Igneous Textures -- John Winter, Whitman College; powerpoint presentation with figures from Chapter 3 of Winter's Igneous and Metamorphic Petrology textbook. Smith and Michael R. Students can study several different compounds during one lab period. Optical Mineralogy--Tutorials and Other On-Line Resources A Guide to Thin Section Microscopy (Acrobat (PDF) 13.1MB Apr2 12) by Michael M. Wenner and Drew S. Laboratory Exercises and Demonstrations with the Spindle Stage -- Mickey Gunter, University of Idaho; The goal of this lab session is to introduce you to the spindle stage and its possible uses in an undergraduate mineralogy lab. Jeffrey Swope, Reto Giere, Jour. Commercially available as a CD. Examination of the Quartz, Feldspathoids, Feldspar, Zeolite Group and other Framework Silicates -- Dexter Perkins, Univ. Metamorphic Rocks and Minerals -- Dexter Perkins, Univ. Perfit, Dept. Sponsored by the more comprehensive Deutsche Mineralogische Gesellschaft and the Mineralogical Society of America Open Access Publications. MicroView -- a Java applet that allows you to see a variety of minerals and rocks in thin section and grain mount by rotating the field of view, and looking at the image in both plane polarized and cross-polarized light. The frame rate is fairly high so you might need to pause the movie and step through with the cursor keys during teaching. 34. Optical Mineralogy -- Greg Finn, Brock University; a complete set of lecture notes for an optical mineralogy class, including useful figures, tables and photomicrographs. Optical Mineralogy -- Mickey Gunter, University of Idaho; a 43 page PDF file of everything Mickey knows (or thinks is important) in the study of optical mineralogy. The properties of Amphiboles, Micas, Pyroxenes, and Olivines and an Introduction to Mineral Properties in Thin Section -- Dexter Perkins, Univ. North Dakota; Students look at mafic igneous minerals, learning to distinguish and identify them in hand specimen. This site is intended for a) students, who desire to review the principles and methods of optical mineralogy and petrography, and b) faculty who seek instructional materials and activities to support their own teaching of these subjects. North Dakota; A final lab exercise that uses the optical mineralogy skills learned in the previous labs and begins the transition to petrographic analysis of thin sections. Raith, Peter Raase, & Jürgen Reinhardt. Students can examine many things quickly and easily, including crystal habit, growth zones, nucleation, deformation textures. Optical Mineralogy in a Modern Earth Sciences Curriculum -- Jurgen Reinhardt, Jour. Growing Crystals on a Microscope Stage -- Paul Sorensen and Dexter Perkins, Univ. A series of spread sheets are used to direct students to make appropriate observations to systematically a) identify minerals in thin section, b) describe rock textures to interpret petrogenetic processes and geologic history, and c) apply this information to address questions of geologic significance. The matrix can be used as a scoring rubric to determine the degree to which students have correctly identified minerals in thin section and described and interpreted rock textures. Petroglyph -- Eric Christiansen and others, Brigham Young University; a comprehensive tutorial that includes modules on the petrographic microscope, plane polarized light, cross polarized light, reflected light, conoscopic light, electron microscope, and includes a variety of petrographic tools, query functions, and a quiz mode. 'Uniaxial Positive Indicatrix Movie' and 'Biaxial Negative Indicatrix Movie' are available for download from the Indicatrix Movies activity page -- David Hirsch, Western Washington University; movies showing slices through crystals in different crystallographic orientations, and the corresponding indicatrix and interference colors. Make sure you have a current version of QuickTime to view these. Guided Discovery and Scoring Rubric for Petrographic Analysis of a Thin Section -- David Mogk, Montana State University; A guided discovery approach is used to "unpack" the methods and observations used by "master" petrographers in the petrographic analysis of a thin section. This will help to demystify what is seen in the polarizing microscope and will better prepare students for the introduction of optical indicatrices as 3-D models to describe the directional dependence of light velocities, and thus refractive indices in anisotropic crystals. At the undergraduate level, it can be used to identify minerals and to demonstrate the relationships among grain shape, retardation, and interference figures. Asbestos: Mineralogy, Health Hazards, and Public Policy --Helen Lang and Sid Halsor, West Virginia Univ. North Dakota; This exercise is an introduction to the most important metamorphic rocks and minerals. Download these PDFs demonstrating: Snell's Law (Acrobat (PDF) 156kB Feb11 09), Vector Resolution (Acrobat (PDF) 444kB Feb11 09), Retardation (Acrobat (PDF) 3.4MB Feb11 09), Dispersion (Acrobat (PDF) 2MB Feb11 09), and Becke Lines (Acrobat (PDF) 4.6MB Feb11 09). Therefore, this exercise is primarily intended to be used in an introductory (physical) geology class, perhaps for advanced students or as an extra credit project. A Last Look at Igneous Minerals in Thin Section -- Dexter Perkins, Univ. Published in PDF format (113 pages). Students look at some of the same minerals and others in thin section. Sedimentary and Related Minerals -- Dexter Perkins, Univ. of Geological Sciences, University of Florida Zoned Plagioclase Exercise -- R.K. Smith, University of Texas at San Antonio Interpretation and Petrogenesis of Zoned Plagioclase -- R.K. Smith, University of Texas at San Antonio Naming/Classifying Metamorphic Rocks - David Hirsch, Western Washington University Pet Rock Project: A Semester-Long Exercise for Igneous and Metamorphic Petrology -- Darrell Henry and Dave Mogk, Louisiana State University and Montana State University Guided Discovery and Scoring Rubric for Petrographic Analysis of a Thin Section -- David Mogk, Montana State University; A guided discovery approach is used to "unpack" the methods and observations used by "master" petrographers in the petrographic analysis of a thin section. Back to Top Optical Mineralogy Teaching Activities Mineral Property Sheets -- David Hirsch, Western Washington Univ.; This activity consists of a set of 69 mineral sheets to be used as part of a term-length set of labs. Experiments in Crystal Optics -- Hans Dieter Zimmermann; The purpose of the experiments below is to impart an intuitive understanding of the interaction between light and crystals and thus, of optical crystallography. of Earth Sciences, Montana State University This webpage provides a compilation of on-line instructional resources and teaching activities related to Optical Mineralogy and Petrography. North Dakota; This exercise is a practical application of optical mineralogy involving identification of some asbestiform minerals. These are big files and take awhile to download. Minerals by Physical and Optical Properties -- David Barthelmy, Mineralogy Database Minerals Under the Microscope -- Charlotte Gladstone and Paul Browning, University of Bristol; tutorials demonstrating fundamental optical properties. North Dakota; This exercise is an introduction to sedimentary minerals and rocks. 15. Identification Tables for Common Minerals in Thin Section -- John Faithful, Hunterian Museum, University of Glasgow; comprehensive and easy to use tables of optical properties of the rock-forming minerals. Introduction to Petrography -- John Butler, University of Houston; on-line course materials for igneous, sedimentary and metamorphic petrography. Optical Mineralogy in a Nutshell--Use of the Petrographic Microscope in Three Easy Lessons -- Jane Selverstone, University of New Mexico; Powerpoint presentations (unzip the files) with all the essentials! Definitely start here! Guide to Thin Section Microscopy--an excellent open source tutorial by Michael M. Skip to Main ContentSkip to Navigation Teach the Earth > Mineralogy > Optical Mineralogy and Petrography David W. Geoscience Education, 2004, v 52 p. 68- 52, p. -- Mickey Gunter, Jour Geoscience Education, 2004, v 52, p. Because of this, it is possible to do simple crystallization experiments and to watch crystals grow over short time periods. Atlas of Rocks, Minerals and Textures--Allen Glazner, University of North Carolina Polarized Light Microscope Fundamentals -- Wayne Powell, Brooklyn College CUNY. Introduction to the polarized light microscope, mineral habit, refractive index, color and pleochroism, polarized light, birefringence, extinction angle, estimating mineral modes. Back to Top Collections of Digital Images -- Minerals in Thin Section Back to Top Articles on Teaching Optical Mineralogy and Petrography The Polarized Light Microscope: Should we Teach the use of a 19th Century Instrument in the 21st Century? Coleman, University of Wisconsin, Oshkosh and University of North Carolina Petrography and Petrogenesis of a Mid-Ocean Ridge Lava Suite -- Matthew C. Raith, Peter Raase, and Jurgen Reinhardt (2011) 107 pp., available through MSA. A series of spreadsheets are used to direct students to make appropriate observations to systematically a) identify minerals in thin section, b) describe rock textures to interpret petrogenetic processes and geologic history, and c) apply this information to address questions of geologic significance. Geoscience Education, 2004, v. Back to Top Activities for Teaching Petrography Naming Igneous Rocks -- Dexter Perkins, University of North Dakota The use of visualization and sketches of thin sections to encourage a better understanding of phase diagrams: Binary and ternary phase diagram exercises -- Jennifer M. A Strategy for Teaching an Effective Undergraduate Mineralogy Course -- R. Animated PDFs showing Optical Properties of Minerals -- John Brady, Smith College, and Wilkes Univ.; In this laboratory exercise students will have an opportunity to examine the crystal structures, optical properties and health hazards of the common asbestos minerals. Metamorphic Textures II -- John Winter, Whitman College; powerpoint presentation with figures from Chapter 23 of Winter's Igneous and Metamorphic Petrology textbook. It may also be appropriate as a brief introduction ("teaser") to optics in a mineralogy or optical class. Back to Top < Previous Page Next Page > Minerals and Light -- Edward Stoddard, North Carolina State Univ.; I've always thought that we might attract a major or two if we introduced first-year students to interference colors and such. The laboratory will reinforce optical microscopic skills that students have learned in mineralogy and show them how mineralogy can be critical to understanding a current public-policy issue. North Dakota State University. Each sheet has spaces to write physical and optical properties for each mineral as well as a crystal form diagram scanned from Nesse and/or Dana. North Dakota; This exercise continues the study of the physical properties of minerals and introduces petrographic microscopes. North Dakota; Many compounds crystallize rapidly from evaporating solutions, and many can be crystallized from melts. Properties of Minerals and Intro to Polarizing Microscopes -- Dexter Perkins, Univ. North Dakota; Students study hand samples of light-colored igneous minerals and related mineral species. A comprehensive coverage of optical mineralogy. They also look at a few of the minerals in thin section.







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