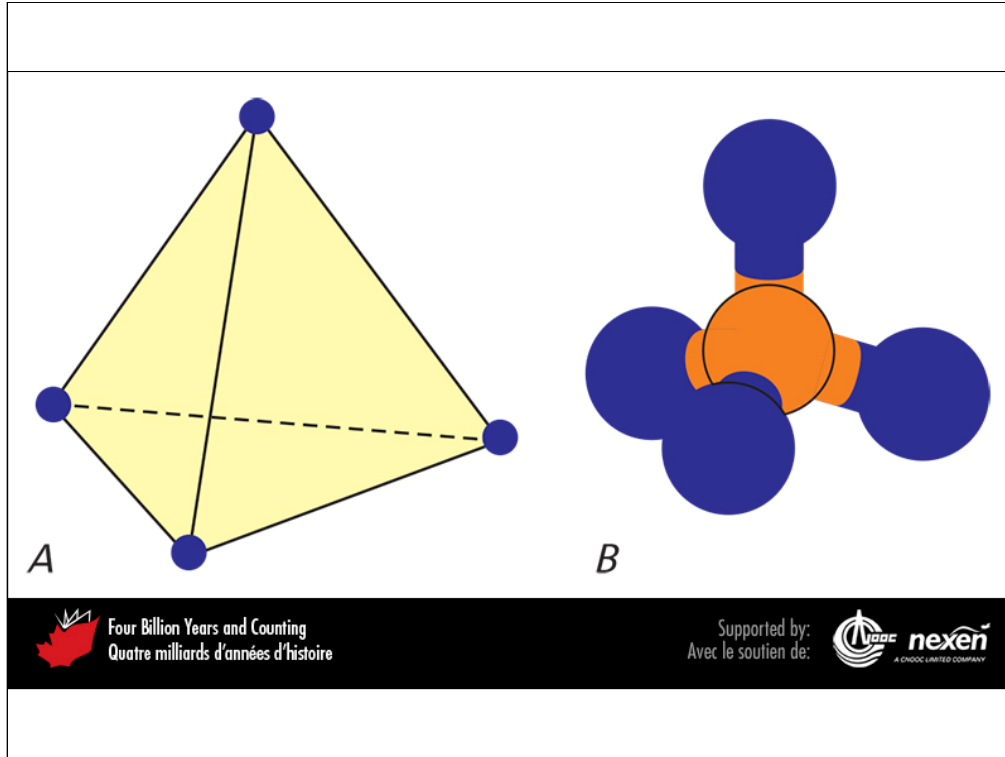


BOX 1

Part 1 of 2

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Silicates are based on a tetrahedral molecular arrangement. A shows the basic shape of a tetrahedron. In silicates, a silicon atom sits in the middle surrounded by four oxygen atoms, representing the four corners, as shown in B.

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Native copper, Cape d'Or, Nova Scotia. HEINZ WIELE, COURTESY OF THE ATLANTIC GEOSCIENCE SOCIETY; SPECIMEN COURTESY OF THE NOVA SCOTIA MUSEUM.

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Native gold from Timmins, Ontario.

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Halite from a potash mine at Rocanville, Saskatchewan. HELEN TYSON, FROM THE COLLECTION OF ROD AND HELEN TYSON.

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Quartz crystals, Salmon River Gold District, Nova Scotia. HEINZ WIELE, COURTESY OF THE ATLANTIC GEOSCIENCE SOCIETY; SPECIMEN COURTESY OF THE NOVA SCOTIA MUSEUM.

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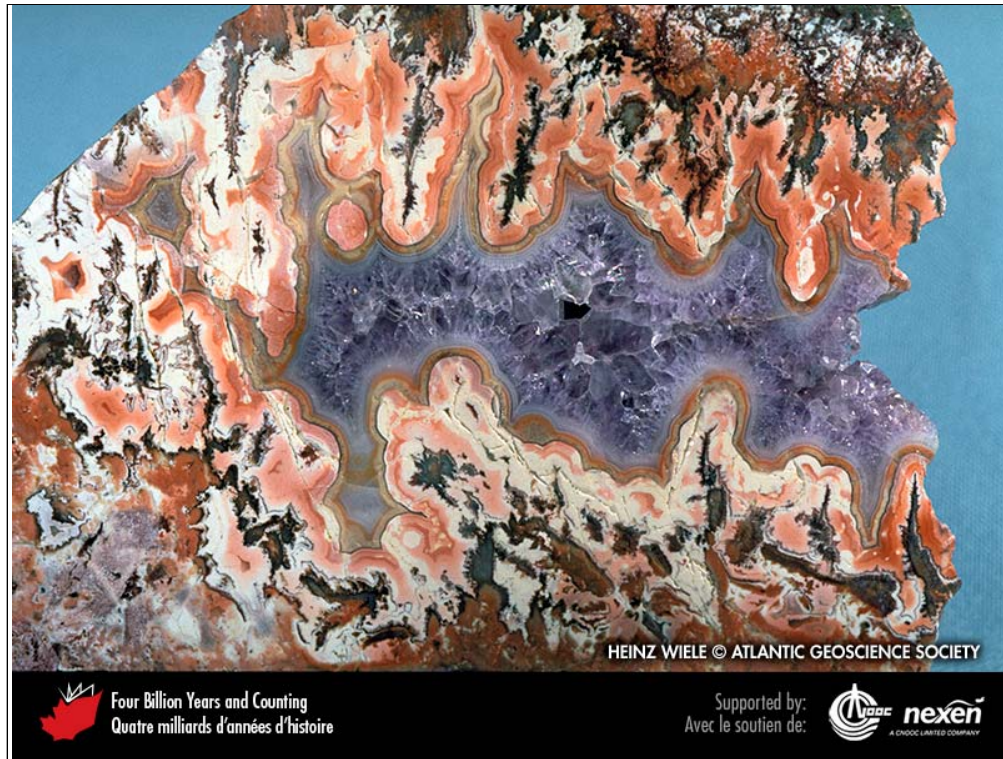
Smoky quartz from Nova Scotia. HEINZ WIELE, COURTESY OF THE ATLANTIC GEOSCIENCE SOCIETY; SPECIMEN COURTESY OF THE FUNDY GEOLOGICAL MUSEUM.

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Amethyst from Thunder Bay, Ontario. HELEN TYSON, FROM THE COLLECTION OF ROD AND HELEN TYSON.

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Multicoloured agate surrounds a core of purple amethyst in this example from around the Bay of Fundy in Nova Scotia. HEINZ WIELE, COURTESY OF THE ATLANTIC GEOSCIENCE SOCIETY; SPECIMEN COURTESY OF THE FUNDY GEOLOGICAL MUSEUM.

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Garnet from the Jeffrey Mine, Quebec. HELEN TYSON, FROM THE COLLECTION OF ROD AND HELEN TYSON.

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Crystals of biotite (black) and apatite (green) southwest of Bancroft, Ontario. GRAHAM WILSON.

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Hornblende, the common rock-forming variety of amphibole, from Bear Lake, west of Bancroft, Ontario. HELEN TYSON, FROM THE COLLECTION OF ROD AND HELEN TYSON.

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BOX 1

Part 2 of 2

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Crystals of calcite or dolomite from Wawa, Ontario. HELEN TYSON, FROM THE COLLECTION OF ROD AND HELEN TYSON.

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Crystals of aragonite from Thetford, Quebec. HELEN TYSON, FROM THE COLLECTION OF ROD AND HELEN TYSON.

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Satin spar, a variety of gypsum, from Nova Scotia. HEINZ WIELE, COURTESY OF THE ATLANTIC GEOSCIENCE SOCIETY; SPECIMEN COURTESY OF THE FUNDY GEOLOGICAL MUSEUM.

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Selenite, a variety of gypsum, from Winnipeg, Manitoba. HELEN TYSON, FROM THE COLLECTION OF ROD AND HELEN TYSON.

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Goethite, an iron oxide mineral, from Bridgeville, Nova Scotia. HEINZ WIELE, COURTESY OF THE ATLANTIC GEOSCIENCE SOCIETY; SPECIMEN COURTESY OF THE NOVA SCOTIA MUSEUM.

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Pyrite from the former Nanisivik Mine, northern Baffin Island, Nunavut. HELEN TYSON, FROM THE COLLECTION OF ROD AND HELEN TYSON.

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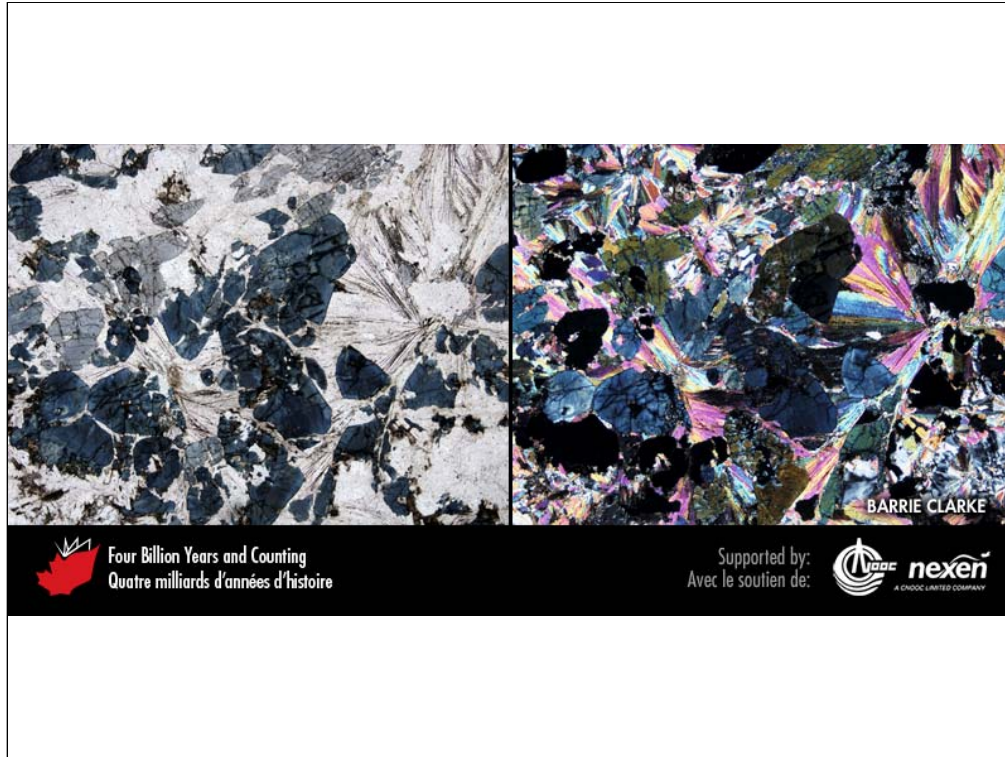
Chalcopyrite from Vancouver Island, British Columbia. HELEN TYSON, FROM THE COLLECTION OF ROD AND HELEN TYSON.

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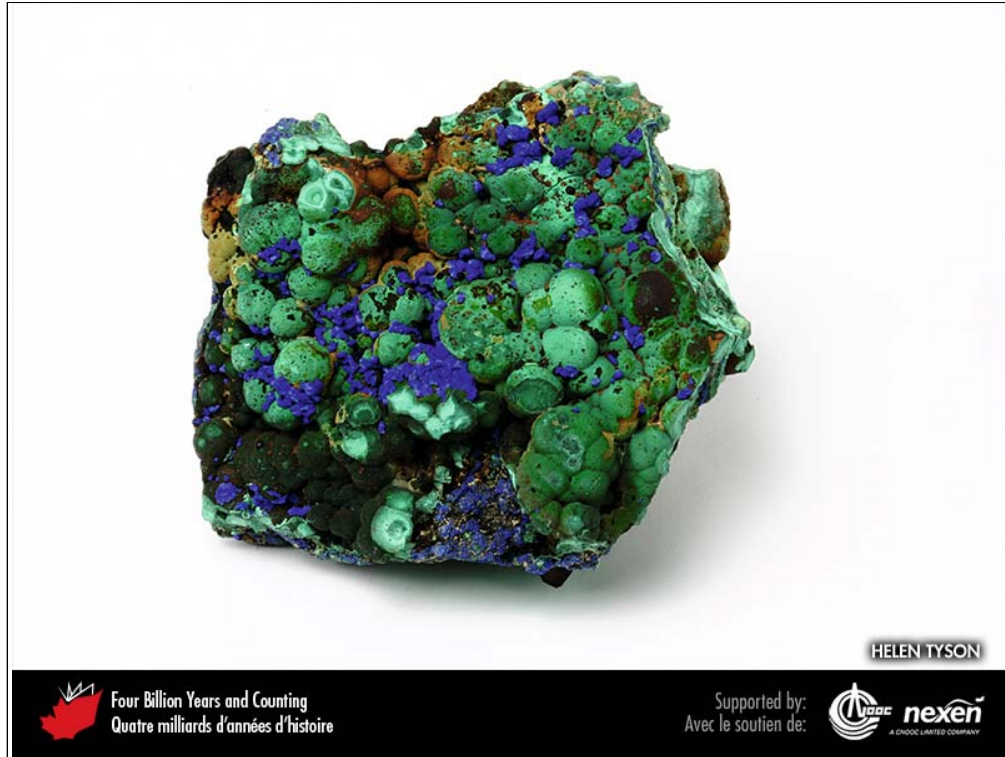
Galena from Watson Lake, Yukon. HELEN TYSON, FROM THE COLLECTION OF ROD AND HELEN TYSON.

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Thin section of a granitic rock from Nova Scotia's South Mountain Batholith (Chapter 8) viewed under a microscope. The photo to the left is in normal light and reveals blue tourmaline in a matrix of mica and quartz. The photo to the right was taken with polarized light. The area of view is 5 millimetres across. Thin sections are primary tools for determining the mineral composition of rocks and consist of paper-thin polished slices. BARRIE CLARKE.

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Malachite (green) and azurite (blue) from Whitehorse, Yukon. HELEN TYSON, FROM THE COLLECTION OF ROD AND HELEN TYSON.

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Fluorite from Daniel's Harbour, Newfoundland. HELEN TYSON, FROM THE COLLECTION OF ROD AND HELEN TYSON.

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