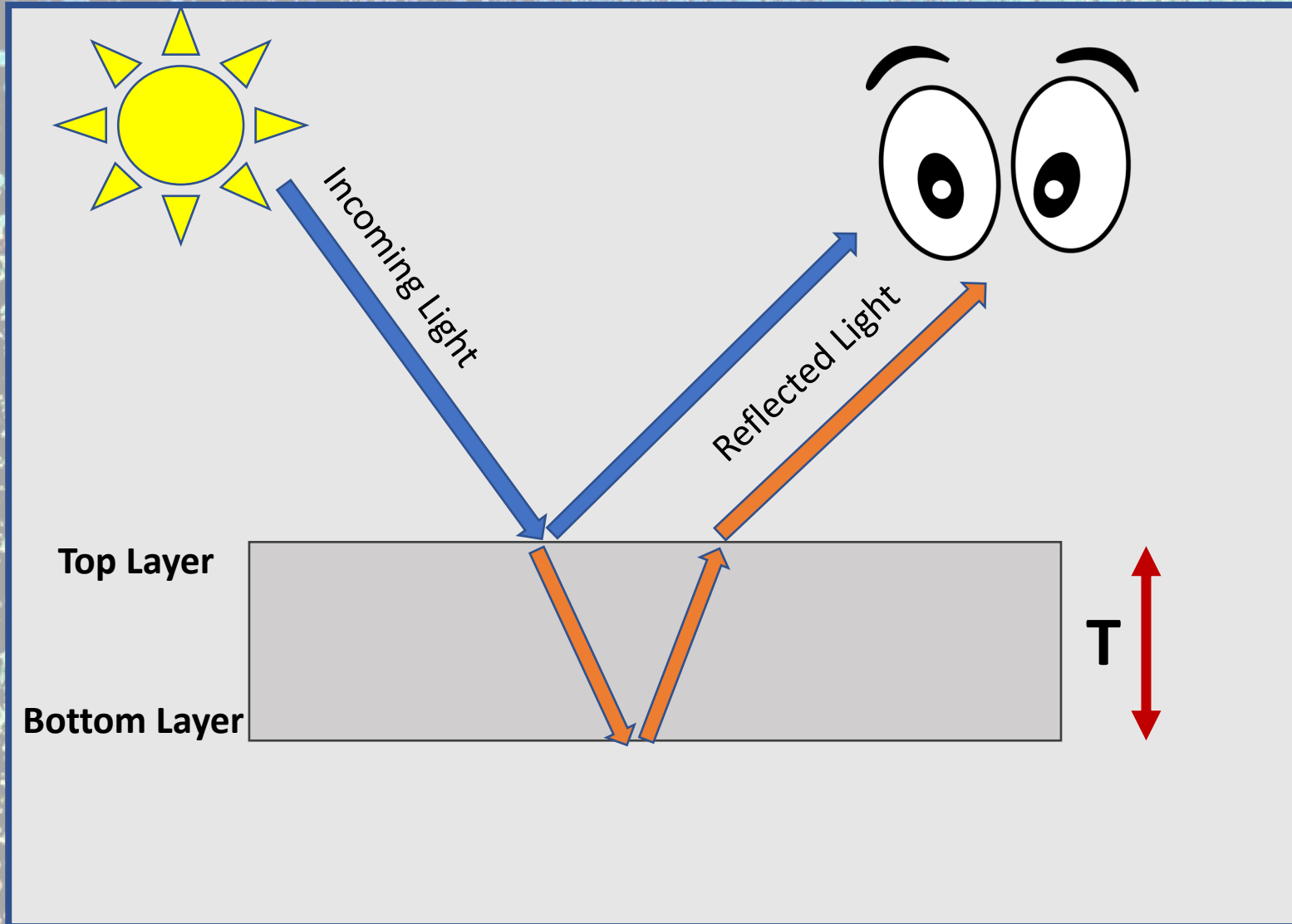


What is iridescence?



Iridescence comes from the Greek word *iris* meaning “rainbow.” It describes the phenomenon of a surface changing color depending on the viewing angle. And interaction of the incoming light with different surfaces of an object.

Iridescence in Nature



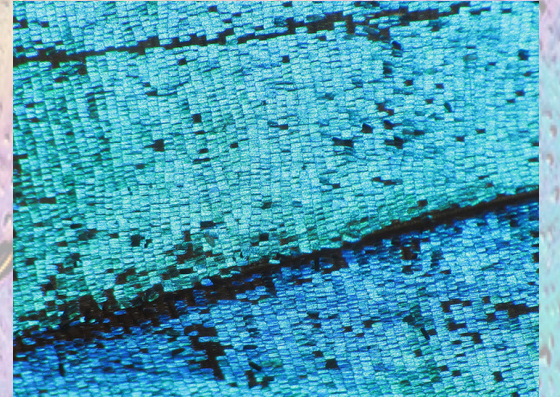
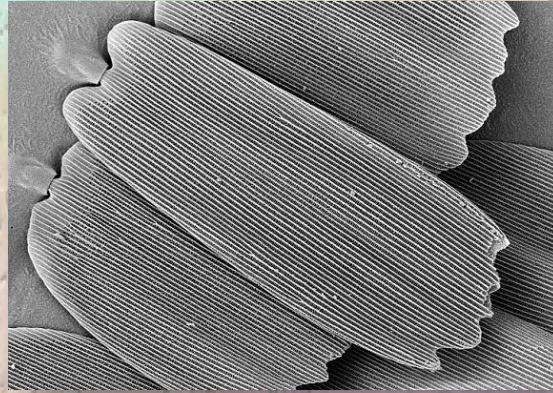
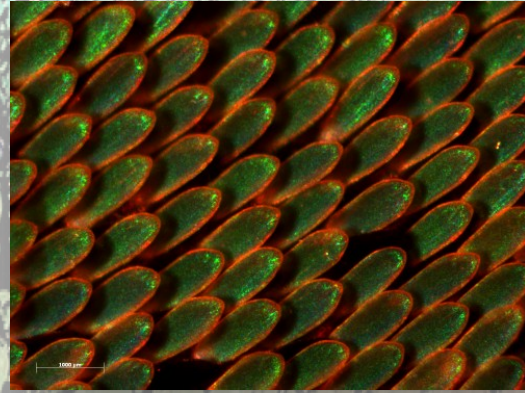
Peacock



Cuckoo Wasp



Violet Sabrewing



Paua Snail



Jewel Beetle



Sunbeam Snake

Iridescence in Art

Glassworks



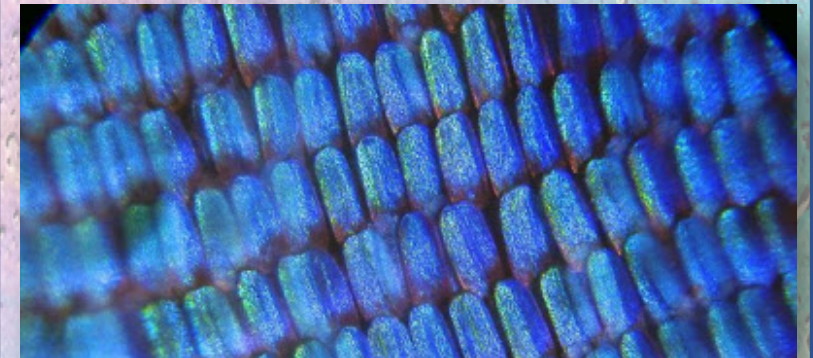
Raku Pottery



Fashion



Morphotex is the world's first optically colored fiber!



Iridescence in Science

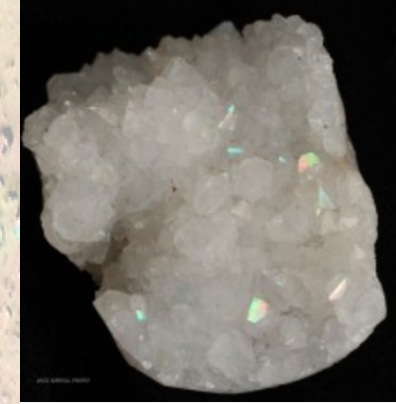
Gabriel Lippmann won the 1908 Nobel Prize In Physics for his pioneering work in colored photography



Crystals

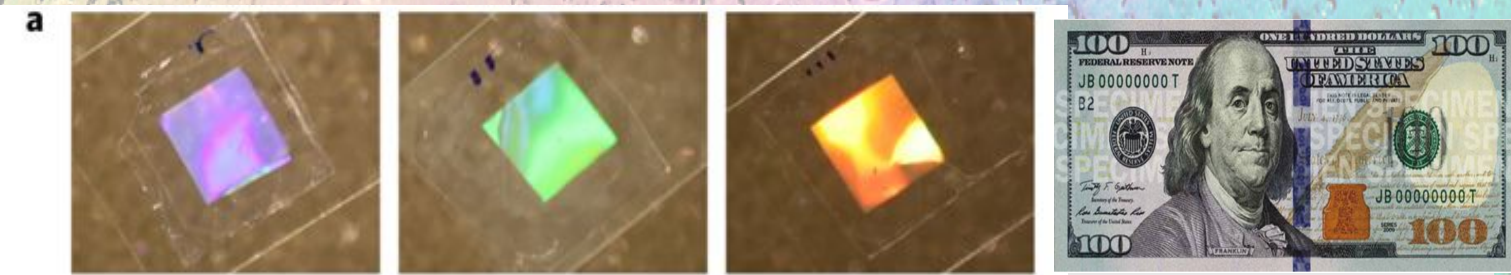
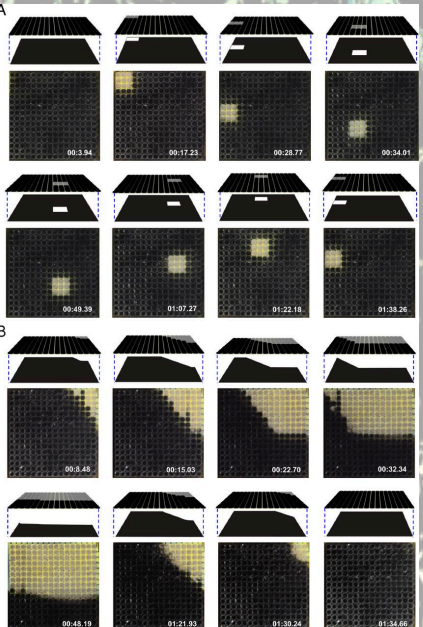


Bismuth



Quartz

Adaptive/active military camouflage. (Real life invisibility cloaks!)



Woven nanocrystals for next generation anti counterfeiting technology

Artificial adaptive camouflage skins

Cunjiang Yu, Yuhang Li, Xun Zhang, Xian Huang, Proceedings of the National Academy of Sciences Sep 2014, 111 (36) 12998-13003; DOI:10.1073/pnas.1410494111

Hydroxypropyl cellulose photonic architectures by soft nanoimprinting lithography