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Editorial



Crystals—familiar to all in gemstones, glittering snowflakes or grains of salt—are everywhere in nature. Throughout history, people have been fascinated by their beauty and mystery. Two thousand years ago, the process of crystallizing sugar and salt was already known to the ancient Indian and Chinese civilizations. Since then, the study of crystals' inner structure and properties has known steady progress, giving us our deepest insights into the arrangement of atoms in the solid state and leading to advancements the sciences of solid-state physics, chemistry, biology, medicine and even mathematics, by considering the symmetries behind crystalline and quasicrystalline patterns.

Crystallographers now apply this knowledge to modify a structure and thus change its properties and behavior. Since this discovery, crystallography has become the very core of structural science, revealing the structure of DNA, allowing us to understand and fabricate computer memories, showing us how proteins are created in cells and helping scientists to design powerful new materials and drugs. Thus crystallography has many applications. It permeates our daily lives and forms the backbone of industries which are increasingly reliant on knowledge generation to develop new products, in widely diverse fields that include agro-food, aeronautics, automobiles, cosmetics and computers as well as the electro-mechanical, pharmaceutical and mining industries. The United Nations General Assembly (UNGA) proclaimed 2014 as the International Year of Crystallography (IYCr2014), and requested UNESCO to lead and coordinate, with the International Union of Crystallography (IUCr), the planning and implementation of educational and capacity-building activities during the Year.

2014 marks the centennial of the birth of X-ray crystallography, thanks to the work of William Henry, William Lawrence Bragg (father and son) and Max von Laue—the later was awarded the 1914 Nobel Prize in Physics for his discovery of the diffraction of X-rays by crystals. This Year also commemorates the 50th anniversary of another Nobel Prize, awarded to Dorothy Hodgkin for her work on vitamin B12 and penicillin, and is the 400th anniversary of Kepler's observation of the symmetrical form of ice crystals (in 1611), thus beginning the wider study of the role of symmetry in matter.

IJONS wishes all the researchers in the field of Crystallography.....

Vijikumar.S

Editor in Chief

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