

enamels, engraved jewellery. Here also were portable fire-arms, travelling apparatus and toys. Life-size and life-like figures, carefully dressed in the costumes of different countries, and of various provinces of different countries, literally "from China to Peru," were set up in divers places within this gallery. The large groups of real precious stones of every name, and of jewel-sets in every variety of form, contributed, not only by numerous manufacturers, but by imperial, royal and other personages in different parts of Europe, were quite fairylandish in character. Here, for one thing, was to be seen the Sancy diamond, once the property of our James II., and sold by him to Louis XIV. for £25,000. In another place I remember a cluster of unwrought emeralds, shown as found in a Russian mine—a number of long, thick, six-sided crystals, of a pure green colour, bristling out irregularly from the sides of a great block of the whitish matrix in which they had been formed.

Another gallery was now to be examined. This was entitled the Gallery of Raw Materials; in French "*Matières Premières.*"

This, though the least showy, was possibly the most instructive of all the galleries to the student. Here the observant traveller, with a design of increasing his practical acquaintance with the products and applications of Natural Science, would have reaped a rich harvest. Here, if the visitor had the time, he could be deliberate, and be but slightly disturbed; for generally speaking the crowd was not great in this zone of the Palace. Here were collections and specimens of rocks, minerals and ores, ornamental stones, marble, serpentine, onyx, hard rocks, refractory substances, earths and clay, sulphur, rock salt, salt from salt springs, bitumen and petroleum, specimens of fuel in its natural state and carbonized, compressed coal, metals in a crude state pig-iron, iron, steel, cast steel, copper, lead, silver, zinc, alloys, products from the washing and refining precious metals, gold beating, electro-metallurgy, objects gilt, silvered or coated with copper or steel by galvanic process, products of the working of metals, rough castings, bells, wrought iron, iron for special purposes, sheet iron and tin plates, iron plates for casing ships, copper, lead and zinc sheets, manufactured metal, blacksmith's work, wheels, tires, unwelded pipes, chains, wire-drawing, needles, pins, wire work, and wire gauze, perforated sheet iron, hardware, ironmongery, edge tools, copper and tin ware, other metal manufactures. Such a detail as this of objects, spread over only a very small portion of the Gallery of *Matières Premières*, gives an idea