

Teaching Polymer Science in the Department of Polymers at the University of Concepción, Chile: A Brief History

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ABSTRACT: Polymers are part of our lives; scientists dedicated to polymer science design new materials thinking about more eco-friendly methodologies and satisfying people's needs. In most universities, polymer science is taught by academics associated with the traditional chemistry departments (organic, analytical, physical, and inorganic chemistry). In this article, we show how polymers are taught in a department specifically dedicated to this topic. We present the history of the Department of Polymers in the Faculty of Chemical Sciences at the University of Concepción (the only department of this type in Chile). Initially, the Department of Polymers offered a few undergraduate and graduate courses; now, polymer science courses at the University of Concepción have become an integral part of the curriculum for seven programs—pedagogy in chemistry, biochemistry, bioengineering, civil engineering in materials, chemical analysis, chemistry, and civil engineering in chemistry. We discuss the influence of this department in the curricular design of these seven programs at the University of Concepción. We offer a detailed description of the polymer-based courses incorporated into the curriculum of some programs, and we discuss how the numbers of graduate and undergraduate theses involving polymer science have increased at the Faculty of Chemical Sciences since the creation of the Department of Polymers in 1974.

KEYWORDS: First-Year Undergraduate/General, Polymer Chemistry, Curriculum, Collaborative/Cooperative Learning



Throughout our history as human beings, the creation of new materials to meet our needs has been an endless goal. From the first alchemists to the emerging materials scientists, this target has been their lives' quest.^{1–5} In that regard, it seems that the sentence "the union makes the force" has led molecules to form one of the most versatile classes of materials of our history: polymers. "Men couldn't have reached the moon if polymers hadn't existed" confirms a prolific researcher in the field of polymer–metal ion interactions^{6–7} at the Department of Polymers (DP) of the University of Concepción (UdeC).

As defined in the Oxford English Dictionary,⁸ a polymer is "a substance which has a molecular structure built up chiefly or completely from a large number of similar units bonded together, e.g. many synthetic organic materials used as plastics and resins." These characteristics, among others, make polymers useful surfaces for industrial applications.^{9–12}

Today, polymers are found in almost everything in our lives: clothes, electronic devices, cars, construction materials, and so on. However, it seems that people are not fully aware of them. "Common people know about synthetic polymers, like plastics" says one of the DP's founding professors, who conducts his research in membrane–molecule interactions.^{13,14} "If people browse through the newspaper, they don't know that it's partially made of cellulose" he points out.

The goal of getting people to know about polymers depends on teaching about polymers in high schools, colleges, and universities. Some institutions have begun to reorganize the curriculum and the manner in which they teach chemistry.^{15–18} In the case of polymer science, the question could be more direct: what is being done to include polymers as a major subject in the curriculum of chemistry and chemistry-related programs?

There are many examples of tenacious scientists and teachers working hard to fully incorporate the teaching of polymers. A quick review of recent decades^{19–24} shows that important work has been done. Recent publications^{25,26} suggest that this interest is a matter of current discussion. The collections in the following papers—Where Should the Teaching of Materials Science Be Directed?,²⁴ Lengthening the Chain: Polymers in General Chemistry,²⁵ and What Are We Going To Do about a Problem like Polymer Chemistry? Develop New Methods of Delivery To Improve Understanding of a Demanding Interdisciplinary Topic²⁶—are even more interesting.

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