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# Thermo Fisher Scientific

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## Introduction

Thermo Fisher Scientific stands today as one of America's foremost science companies—a vital partner to researchers, clinicians, and innovators in laboratories and hospitals across the globe. Its prominence in the world of life sciences, diagnostics, and laboratory solutions is the result of over a century of evolution, enterprise, and enduring commitment to serving science. This book traces the journey of Thermo Fisher Scientific from its humble origins in industrial Pittsburgh and entrepreneurial Waltham, through periods of dramatic growth, innovation, and transformation, to its current position as a linchpin of global scientific progress.

The story of Thermo Fisher Scientific begins with two separate but parallel ventures—Fisher Scientific, launched by Chester G. Fisher in 1902 to supply the burgeoning steel industry with essential scientific tools, and Thermo Electron, founded in 1956 by George N. Hatsopoulos and Peter Nomikos as a bold experiment in engineering innovation and corporate entrepreneurship. Each company contributed unique strengths: Fisher Scientific's expanding catalog, technical innovations, and pivotal role in landmark scientific events, and Thermo Electron's engineered solutions and enterprising spin-out culture. Their evolution reflected the changing landscapes of American industry, medicine, and science, responding to world wars, global pandemics, and the relentless march of discovery.

The merger of these two entities in 2006 was more than a corporate transaction—it was the birth of a new kind of scientific powerhouse. Thermo Fisher Scientific emerged with a scope and scale that would soon make it indispensable to the worlds of pharmaceutical development, clinical diagnostics, and cutting-edge biological research. Through strategic acquisitions, relentless expansion of its product and service lines, and a focus on customer-driven innovation, the company solidified its role at the heart of scientific advancement.

But the growth of Thermo Fisher Scientific is not just a tale of numbers, products, and profits. It is a story of impact: of providing the tools for Nobel-winning research, supporting the development of vaccines in record time, and empowering scientists and clinicians to confront some of humanity's most urgent health challenges. It is also a story of corporate responsibility, encompassing ambitious environmental targets, diversity and inclusion initiatives, and outreach to underserved communities and budding scientists around the world.

Like any major institution, Thermo Fisher Scientific's journey has not been without obstacles and controversies. The company has faced regulatory scrutiny, public criticism regarding ethical challenges, and tough decisions in balancing growth and

conscience in a complex global landscape. Its willingness to address such challenges, learn from setbacks, and adapt remains integral to its corporate identity.

This book presents an in-depth history of Thermo Fisher Scientific—its origins, innovations, challenges, and achievements. It explores not only the evolution of a business but the ways in which this American enterprise has shaped science, medicine, and industry. By examining both the triumphs and the trials of Thermo Fisher Scientific, we gain insight into the broader narrative of American innovation and the ongoing quest to make the world healthier, cleaner, and safer.

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## **CHAPTER ONE: The Foundation of Fisher Scientific: Pittsburgh Beginnings**

At the dawn of the 20th century, the city of Pittsburgh, Pennsylvania, was a thrumming engine of American industry. Steel mills, belching smoke and fire, dominated the landscape, their furnaces roaring a constant symphony of progress. This industrial boom created a unique ecosystem, one that demanded precision, innovation, and an ever-growing array of specialized tools. It was into this environment that a young, ambitious engineer named Chester G. Fisher stepped, recognizing a crucial unmet need.

Born in Pittsburgh in 1881, Chester G. Fisher was just 20 years old when he founded his company in 1902. A recent engineering graduate from Western University of Pennsylvania (now the University of Pittsburgh), Fisher possessed a keen eye for opportunity and a practical understanding of the industrial landscape around him. He saw that the burgeoning steel industry and other local manufacturing businesses required consistent access to reliable scientific equipment and reagents for their testing and research laboratories.

At the time, obtaining these vital supplies was often a piecemeal affair, lacking a centralized and dependable source. Fisher's solution was to establish a dedicated company that would bridge this gap. He began by purchasing the stockroom of the Pittsburgh Testing Laboratory, which had been the primary, if limited, source of laboratory supplies in Western Pennsylvania. This acquisition provided him with an initial inventory and a foundation upon which to build his vision.

On May 6, 1902, Fisher officially established his enterprise, naming it the "Scientific Materials Company." His initial offerings were fundamental to the laboratory work of the era, which largely consisted of basic volumetric and gravimetric analysis. The company's first products included essential items such as microscopes, burettes, pipettes, litmus paper, balances, and colorimeters. While these might seem rudimentary by today's standards, they were, in their time, state-of-the-art instruments that allowed for better and more accurate visual analysis in industrial laboratories.

Beyond just industrial applications, Fisher also recognized the broader needs of scientific education and research. Early catalogs included dissecting kits encased in Moroccan leather and anatomical models of the eye, ear, and heart, demonstrating an early commitment to serving a wide spectrum of scientific endeavors. This comprehensive approach quickly distinguished the Scientific Materials Company in a

nascent market.

Two years after its founding, in 1904, the Scientific Materials Company published its first catalog. This substantial, 400-page publication, known as the "Scientific Materials Co. Catalog of Laboratory Apparatus & Supplies," was a groundbreaking effort. It was illustrated with handmade woodcuts, a testament to the era's printing technology, and listed not only standard laboratory supplies but also the more specialized items Fisher was keen to provide. This catalog would prove to be far more than just a price list; it became a crucial resource for scientists and industries, evolving over the years into the renowned Fisher Catalog, an industry standard for both purchasing and technical information.

The establishment of the Scientific Materials Company by Chester G. Fisher marked a pivotal moment. It was not merely the creation of a new business but the birth of a dedicated, commercial source for scientific tools in a rapidly industrializing America. This venture laid the groundwork for what would become a global leader, driven by a foundational principle: to enable scientific advancement by providing the essential materials and equipment that researchers, innovators, and industries needed to make new discoveries and improve processes. Fisher's foresight in Pittsburgh set the stage for a century of growth and innovation that would eventually lead to the formation of Thermo Fisher Scientific.

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