

美國工業研究室一覽



中國科學院學術秘書處

一九五六年四月

美國國立科学院全國研究委員会編

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美國國立科學院全國研究委員會編

中國科學院 應用化學研究所 譯
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INDUSTRIAL RESEARCH LABORATORIES

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Including Consulting Research Laboratories

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序

由美國國家研究委員會出版的這本冊子——“美國工業研究室”第九版反映了美國工業（科學）研究事業的不斷的成長與力量。自從本書第一版刊行以來的三十年內，公司數量激增近十倍；同時工商界已確認研究室是使那些能銷售成品或能接受對外服務的各企業組織得以長期健全發展的主要因素。據估計目前由工業界分配給研究方面的年度經費約為十億美元。

比較本書第九版與第八版後，可以看出恰如我們所預料的若干顯然的傾向；研究機構的集中；管理機構的更趨正規化；以及在儀表學，電子學、航空學、化學治療、電視和核子學方面的非常的发展。

我們在1950年1月至6月間收集本書第九版的資料。我們把說明書和調查表格寫給約計7,000家公司，包括本書第八版已編列的2,443家公司。在這2,443家公司中，只有300家繼續進行研究業務；本書原有材料均已修訂。在未經編入第八版的4,500個單位中，3,000個單位已有回信；我們找到過去未報導的750個研究室。

關於什麼是“研究工作”以及什麼樣的人算是“科學家”我們讓各單位自行決定。這樣的解釋是比較廣義的，因為我們為了達到編輯本冊子的目的起見，曾在說明函內這樣地提出：“研究”這個詞包括在過程，設備與生產方面的工業改進工作，也包括基本研究與應用研究；它並不適用於僅進行生產控制或商品檢驗的實驗室。關於人員一項，我們曾要求供給下列各項數字：“專業科學研究人員”，“不屬於上一類的技術人員”以及“研究室內的行政，文書與維護人員”。

按字母排列各地分公司與聯營公司的編輯方針也不是固定不變的。一般說來，如果是著名而又彼此接近的聯營企業，就可在總公司項下找到分公司。如果這兩處業務範圍相差極大，而聯營關係又不太顯著，那就分列在兩處。基本上我們已試圖將公司名稱列在閱者最可能查閱的地位；不管怎樣，這本冊子是全部編訂交叉索引的。

國家研究委員會編印這本冊子的主要目的是供工業界的科學家與管理人員的用途。為了達到這一目的，編者也搜羅了若干顧名思義地說來並非工業性的機構，例如商會，研究所（其中有屬於各大學的），以及對工業界提供若干研究服務的機構。

增訂本書第九版的另一特征是說明該實驗室是否接受對外服務。這裡有各種多樣的“對外服務”。例如有偶爾為某一公司的個別顧客服務的實驗室，也有以服務為唯一營業項目的商業實驗室。最好不必細問這些公司對外服務的確切範圍；在書中任何場合所提到的服務都是根據對如下問題的回答：“這個實驗室接受對外服務嗎？”

書末有附錄兩種。附錄1列舉那些與工業界實驗室業務平行聯邦政府實驗室，這是第九版新的內容。附錄2列舉為工業界進行科學研究服務的大學與專科學校；為適應這類日漸增長的服務起見，編者已充實了附錄2的內容，並使它更有參考價值。

工商界的各研究室主任與管理人員又一次熱忱地協助我們來提供這本新冊子的資料，國家研究委員會在此致謝。這本冊子應該是屬於他們的。編者另外向赫爾女士（Miss

Callie Hull) 致謝。她是國家研究委員會、國家科學院的圖書管理員以及本書過去几版的編輯；她對本書編輯也提供了經驗。

郎德 (Myron J. Rand) 於美國國家研究委員會。

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