

Americas Research Universities The Challenges Ahead

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State Governments and Research Universities To Advance Knowledge The University Research System Research and Relevant Knowledge The Lancet Research and Relevant Knowledge Undergraduate Courses of Study Research & Relevant Knowledge Building a Research University Studies The Organization and Development of Governmental Research Energy Research Abstracts The Top American Research Universities The Academy Introduction to Research Medical Education, Medical Colleges and the Regulation of the Practice of Medicine in the United States and Canada, 1765–1891 Survey Research The Nation Proceedings of the ... Convocation of University of the State of New York Berlin, the Mother of All Research Universities *David J. Weerts Björn Wittrock Roger L. Geiger Roger L. Geiger University of Pennsylvania Roger L. Geiger Peter J. Heard University of Nebraska (Lincoln campus). Dept. of Zoology William Anderson Walther G. Prausnitz Illinois State Board of Health University of the State of New York Charles E. McClelland*

provides a study of differences in unrestricted state appropriations for Carnegie public research universities during the 1990s contending that funding is contingent on the institution's ability to demonstrate its service to the state

American research universities are part of the foundation for the supremacy of American science although they emerged as universities in the late nineteenth century the incorporation of research as a distinct part of their mission largely occurred after 1900 to advance knowledge relates how these institutions by 1940 advanced from provincial outposts in the world of knowledge to leaders in critical areas of science this study is the first to systematically examine the preconditions for the development of a university research role these include the formation of academic disciplines communities that sponsored associations and journals which defined and advanced fields of knowledge only a few universities were able to engage in these activities indeed universities before World War I struggled to find the means to support their own research through endowments research funds and faculty time to advance knowledge shows how these institutions developed the size and wealth to harbor a learned faculty the book illustrates how arrangements for research changed markedly in the 1920s when the great foundations established from the Rockefeller and

carnegie fortunes embraced the advancement of knowledge as a goal universities emerged in this decade as the best suited vessels to carry this mission foundation resources made possible the development of an american social science in the natural sciences this patronage allowed the united states to gain parity with europe on scientific frontiers of which the most important was undoubtedly nuclear physics the research role of universities cannot be isolated from the institutions themselves to advance knowledge focuses on sixteen universities that were significantly engaged with research during this era it analyzes all facets of these institutions collegiate life sources of funding treatment of faculty since all were relevant to shaping the research role roger l geiger is distinguished professor of higher education at the pennsylvania state university he has edited the history of higher education annual since 1993 was a section editor for the encyclopedia of higher education and is the author of the american college in the nineteenth century and private sectors in higher education

with this book roger l geiger completes a two volume study of american research universities in the twentieth century the first volume to advance knowledge focused on those few institutions that first embodied academic research and their interaction with private supporters this book describes how the federal government first relied on university scientists during world war ii and how the resulting relationship set the pattern for the postwar mushrooming of academic research although the vicissitudes of federal university relations are one crucial element of this history the focus is on the universities themselves their internal aspirations to conduct research and their adaptations to external constraints and opportunities detailed cases are offered of individual institutions during critical periods mit and the university of california berkeley in the postwar era stanford and ucla in the go go years after sputnik and georgia tech and the university of arizona during the difficult 1970s this book treats the many facets of research universities that impinge on their research role including the student rebellion of the 1960s the final chapter addresses factors underlying the embattled status of research universities in the 1990s

the rise of american research universities to international preeminence constitutes one of the most important episodes in the history of higher education research and relevant knowledge follows geiger s earlier volume on american research universities from 1900 to 1940 this second work is the first study to trace this momentous development in the post world war ii period it describes how the federal government first relied on university scientists during the war and how the resulting relationship set the pattern for the postwar mushrooming of academic research the first half of the book analyzes the development of the postwar system of academic research exploring the contributions of foundations defense agencies and universities the second half depicts the rise of the golden age of academic research in the years after sputnik 1957 and its eventual dissolution at the end of the 1960s graduate education when the federal patron soon reduced its largesse university students took the lead in challenging the putative hegemony of academic research the loss of consensus quickly brought the malaise of the 1970s stagnation frustration and equivocation about the research role the final chapter appraises the renaissance of the 1980s based largely on a rapprochement with the private sector and ends by evaluating the embattled status of research universities at the beginning of the 1990s research and relevant knowledge provides the first authoritative analytical account of american research universities during their most fateful half century it will be of critical importance to all those concerned with the future of higher education in the united states

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building a research university a guide to establishing research in new universities is a guide for university leaders who aim to manage the switch from being a teaching institution to one that is research led drawing on the author's own experience leading two different universities the book covers the importance of research in a modern university and examines the right balance between teaching and research and the strategies to go through phases of growth and development

semiannual with semiannual and annual indexes references to all scientific and technical literature coming from doe its laboratories energy centers and contractors includes all works deriving from doe other related government sponsored information and foreign nonnuclear information arranged under 39 categories e g biomedical sciences basic studies biomedical sciences applied studies health and safety and fusion energy entry gives bibliographical information and abstract corporate author subject report number indexes

this work is the first major reexamination in english of the rise of the world's pioneer modern research university it presents an authoritative history of science scholarship and education offering readers a background platform from which to confront looming issues about the future of higher education systems everywhere but especially in the united states the innovations of the new model university of berlin reached their highest point of development and influence on foreign adopters of technology transfer under the new german empire before world war i these innovations were grafted onto and shaped american higher research teaching and professionalization like no other influence in the twentieth century no previous book in english has described this impressive conscious creation of an institution promoting cutting edge research in fields from physics and

medicine to law and theology combined with the highest standards of active self involved student learning for the higher professions yet even at the moment its astonishing institutional achievements became the inspiration for the brilliant rise of the american research university over the last century its own contradictions and limitations were already beginning to appear in the 1920s indeed since the university of berlin was originally little more than a new reformed german university before 1860 and subsequently faced the disadvantages of financial ruin of the 1920s and the imposed wreckage of the nazi and east german communist regimes from 1933 to 1990 the period 1860 1918 is the one of greatest interest for the development of what came to be a world wide model for emulation today when the entire concept of the elite research university is under attack revisiting its origins in germany should provide stimulus to the debates about the future of the university not only in north america and europe but in all countries with higher education systems modeled on or influences by the german or american ones e g australia india the question of whether future innovative science and scholarship should remain coupled with teaching institutions as in the berlin model can best be explored against the background of the emergence of that model

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Introduction

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