

# Research and Relevant Knowledge

*American Research Universities  
Since World War II*

ROGER L. GEIGER

New York                      Oxford  
OXFORD UNIVERSITY PRESS  
1993

# Contents

Tables   xiii

Abbreviations   xv

1. Origins of the Federal Research Economy   3
  1. The Organization of Research for War   3
  2. Universities and War Research   6
  3. Postwar Federal Science Policy   13
  4. The Postwar Federal Research Economy   19
  
2. Research Universities in the Postwar Era,  
1945-1957   30
  1. From War to Peace to Cold War   30
  2. The Burdens of Finance   40
  3. Organized Research in Postwar Universities   47
  4. An Autonomous Research Mission and Its Discontents   58
  
3. The Development of Universities in the Postwar Era   62
  1. The Massachusetts Institute of Technology   63
  2. The University of California, Berkeley   73
  3. Yale University   82
  
4. Private Foundations and the Research Universities,  
1945-1960   92
  1. Foundations and Academic Social Science   94
  2. Foundation Support for University Advancement   110

5. University Advancement from the Postwar Era to the 1960s	117
1. Stanford University	118
2. The University of California, Los Angeles	135
3. The University of Pittsburgh	146
6. The Transformation of Federal Research Support in the Sputnik Era	157
1. The 1950s Research Economy and the Rise of NSF	157
2. Sputnik	161
3. The Politics of Academic Science	166
4. Federal Support and the Golden Age of Academic Science	173
7. The Golden Age on Campus: The Research Universities in the 1960s	198
1. The Evolving University: Contemporary Perceptions	198
2. Changing Patterns of Research and New Research Universities	203
3. Academic Quality and Institutional Development	211
4. Graduate Education in the 1960s	217
8. Dissolution of a Consensus	230
1. The Student Rebellion	230
2. The Financial Crisis of the Research Universities	243
3. A Deeper Malaise	252
9. Surviving the Seventies	270
1. The State of Universities in the Mid-1970s	270
2. The University of Arizona	273
3. Georgia Institute of Technology	283
4. Private Industry and University Research	296
10. The New Era of the 1980s	310
1. Turning Outward	310
2. Research in the 1980s	320
3. Centrifugal Forces	326
4. Research Universities and American Society	331
Notes	339
Index	405