The Changing University How Increased Demand for Scientists and Technology is Transforming Academic Institutions Internationally

edited by

Dorothy S. Zinberg

!

Center for Science and International Affairs, John F. Kennedy School of Government, Harvard University, Cambridge, Massachusetts, U.S.A.



Kluwer Academic Publishers

Dordrecht / Boston / London

Published in cooperation with NATO Scientific Affairs Division

• •

CONTENTS

| Preface | vii |
|---|-----|
| Introduction Dorothy S. Zinberg | 1 |
| SECTION I: PERSPECTIVES FROM ACADEMIA, INDUSTRY, AND GOVERNMENT | |
| Reconciling Conflicts – The Challenge for the University Derek C. Bok, President, Harvard University | 15 |
| An Industry Perspective on the Changing University John A. Armstrong, Vice President for Science and Technology, IBM | 17 |
| Positioning U.S. Science Policy for the New World Order Erich Bloch, Former Director National Science Foundation | 25 |
| The University – and Particularly the Technological University: Pragmatism and Beyond George Bugliarello, President, Polytechnic University | 31 |
| The Swing of the Pendulum: Financing of British Universities from the 1960s through the 1980s Shirley Williams, Public Service Professor of Electoral Politics, John F. Kennedy School of Government, Harvard University | 39 |
| Changing Patterns of Finance for Higher Education: Implications for the Education of Scientists and Engineers Maureen Woodhall, Centre for Higher Education Studies, Institute of Education, University of London | 45 |

•