TECHNOLOGY AND WORK EAST-WEST COMPARISON

Edited by Peter Grootings

CROOM HELM CROOM HELM London • Sydney • Dover, New Hampshire in association with the European Co-ordination Centre for Research and Documentation in Social Sciences List of Tables List of Figures Introduction by Peter Grootings 1 PART I THEORY AND RESEARCH ON TECHNOLOGY AND WORK IN EUROPE 5 1. Technology and Work: An Outline of Theory and Research in the Western Social Sciences by John Child 7 Preface 7 Introduction: Conceptual and Theoretical Issues 8 Conceptual Issues 8 Theoretical Issues ·13 The "Technological Implications" Tradition 17 Levels of Employment 18 Structures of Employment and Job Characteristics 22 The Experience of Work and Industrial Behaviour .32 Management Organization and Supervision 40 Social Analyses of Technology and Work 45 The Politics of Technology and Work 45 Technology and the Wider Context of Work 49 References · 55 2. The Concept of Technology in the Sociology of Socialist Countries by Jolanta Kulpinska 67 Introduction 67 The Scientific-Technological Revolution 69 Technology and Character of Work 74

	Technological Progress and Social Structure Introduction of New Technology Practical Applications of Sociology of Work Conclusions Notes References	81 85 88 90 93 95		
з.	Self-Management and Technology by Bogdan Kavcic	103		
	Some Relevant Characteristics of the Yugoslav Social System The New Role of Workers in Self-Management	103		
	Organizations	106		
	Organizational Structure	108		
	Self-Management in Basic Organization			
	of Associated Labour	110		
	The Power of Workers in the Political			
	System	112		
	Self-Management Requires a New Quality			
	of Workers	113		
	Technology and Self-Management	116		
	Technological Development in Yugoslavia	117		
	The Problems Most Frequently Discussed	119		
	Concluding Remarks	133		
	Notes	136		
	II THE EXPERIENCE OF THE AUTOMATION INDUSTRIAL WORKERS PROJECT	139		
4.	Case History of a Research Project on Work and Technology: A Participant Interpretation	n		
	by Liisa Rantalaiho	141		
	Introductory Remarks Automation and Industrial Workers Project:	141		
	External Facts of the Research Process	143		
	The Story of the Automation Project Incubation: From the Idea in 1968	149		
	to Erlangen 1972	150		
	Construction: From Erlangen 1972 to			
	Lauf 1975 -	153		
	Frustration and Readjustment: From			
	Lauf 1975 to Bellagio 1977	164		
	Erosion and Endurance: From Bellagio			
	1977 to Vienna 1979, and on	173		
	Concluding Remarks	176		
	Notes	178		
		1.0		

•

•

5.	Automation and Industrial Workers: The Preparation and Implementation of an International Project	
	by Boris Koval and Mihail Nochevnik	`185
	Introduction The Specificity of International	1 8 5
	Comparative Studies in Social Sciences The Study of Social Consequences of	185
•	Automation The International Project "Automation	189
	and Industrial Workers" Socio-Psychological Aspects of Scientific	191
	Cooperation	200
	Conclusion	202
	Notes	203
	References	204
PART	III RECENT EUROPEAN COMPARATIVE RESEARCH	207
6.	A Societal Analysis of New Technologies by Francois Eyraud and Frédérique Rychener	209
	Principal Aspects of the Societal Analysis	209
	The Assumption of Incomparability	209
	Interaction Versus Direct Causality New Technologies and International	211
	Comparison	213
	General Hypotheses	213
	Methodology	214
	Choice of the Sample and Persons	
	to be Interviewed	214 217
	Method of Analysis Conclusion	228
	Notes	229
7.	Technology and Work in the Two Germanies by Dietrich Hoss	231
	An Astonishing Parallel: New Strategies	
	of Labour Use	231
	The New Production Concept Scientific Work Organization	231 240
	Different Pressures and Barriers for a	240
	Non-Tayloristic Use of Labour in the	
	FRG and GDR	251
	Conclusions	265
	References	269

.

•

PART IV CONCLUSION

.

1

8.	Technology and Work: A Topic for East-Wes Comparison?	t.
	by Peter Grootings	275
	Introduction	275
	In Search of a New Paradigm: Anti-	
	Technological Determinism	277
	From Cross-National to International	
	Comparative Research	283
	International Comparative Research on	
	Technology and Work	289
	Problems of Research Design	289
	Problems of Organization	291
	Conclusions	295
	Notes	296
	References	296
CON	NTRIBUTORS	303

.

273