## CONTENTS

Forew	rord	v
Prefac	ce	vii
1981	NICOLAAS BLOEMBERGEN, ARTHUR L SCHAWLOW and KAI M SIEGBAHN Presentation by Ingvar Lindgren	3
	Biography of Nicolaas Bloembergen Nonlinear Optics and Spectroscopy	7 12
	Biography of Arthur L Schawlow Spectroscopy in a New Light	33 36
	Biography of Kai M Siegbahn  Electron Spectroscopy for Atoms, Molecules and Condensed Matter	61 63
1982	KENNETH G WILSON Presentation by Stig Lundqvist	95
	Biography of Kenneth G Wilson The Renormalization Group and Critical Phenomena	99 102
1983	SUBRAHMANYAN CHANDRASEKHAR and WILLIAM A FOWLER	
	Presentation by Sven Johansson	135
	Biography of Subrahmanyan Chandrasekhar On Stars, their Evolution and their Stability	139 142
	Biography of William A Fowler	167
	Experimental and Theoretical Nuclear Astrophysics; The Quest for the Origin of the Elements	172
1984	CARLO RUBBIA and SIMON VAN DER MEER Presentation by Gösta Ekspong	233

	Biography of Carlo Rubbia  Experimental Observation of the Intermediate Vector Bosons	237
	$W^+$ , $W^-$ and $Z^0$	240
	Biography of Simon van der Meer Stochastic Cooling and the Accumulation of Antiprotons	289 291
1985	KLAUS VON KLITZING Presentation by Stig Lundqvist	311
	Biography of Klaus von Klitzing The Quantized Hall Effect	315 316
1986	ERNST RUSKA, GERD BINNING and HEINRICH ROHRER Presentation by Sven Johansson	349
	Biography of Ernst Ruska The Development of the Electron Microscope and of Electron Microscopy	353 355
	Biography of Gerd Binnig	383
	Biography of Heinrich Rohrer Scanning Tunneling Microscopy — From Birth to Adolescence	387 389
1987	J GEORG BEDNORZ and K ALEX MÜLLER Presentation by Gösta Ekspong	413
	Biography of J Georg Bednorz	417
	Biography of K Alex Müller Perovskite-type Oxides — The New Approach to High- $T_c$	421
	Superconductivity	424
1988	LEON M LEDERMAN, MELVIN SCHWARTZ and JACK STEINBERGER	461
	Presentation by Gösta Ekspong	461
	Biography of Melvin Schwartz The First High Energy Neutrino Experiment	465 467
	Biography of Jack Steinberger Experiments with High-Energy Neutrino Beams	481 487
	Biography of Leon M Lederman Observations in Particle Physics from Two Neutrinos to the	509
	Standard Model	511

	X	i

1989	NORMAN F RAMSEY, HANS G DEHMELT and WOLFGANG PAUL Presentation by Ingvar Lindgren	543
	Biography of Norman F Ramsey Experiments with Separated Oscillatory Fields and Hydrogen Masers	547 553
	Biography of Hans G Dehmelt  Experiments with an Isolated Subatomic Particle at Rest	575 583
	Biography of Wolfgang Paul Electromagentic Traps for Charged and Neutral Particles	597 601
1990	JEROME I FRIEDMAN, HENRY W KENDALL and RICHARD E TAYLOR Presentation by Cecilia Jarlskog	625
	Biography of Richard E Taylor  Deep Inelastic Scattering: The Early Years	629 632
	Biography of Henry W Kendall  Deep Inelastic Scattering: Experiments on the Proton and the  Observation of Scaling	673 676
	Biography of Jerome I Friedman  Deep Inelastic Scattering: Comparisons with the Quark Model	711 715