Nature not Mocked

PLACES, PEOPLE AND SCIENCE

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Contents

Preface		ix
PART 1	TEMPLES OF SCIENCE	1
<i>Chapter 1</i>	<i>The Royal Institution: Then and Now</i>	3
	The Beginnings	3
	Creating and Communicating Science	6
	The Philosopher's Tree: How Faraday Created	18
	Today's Royal Institution	
	A Special Friday Night	40
	Christmas Lectures in Japan	42
<i>Chapter 2</i>	<i>Conversation Rooms</i>	45
<i>Chapter 3</i>	<i>The Institut Laue-Langevin: A Crucible of</i>	
	<i>European Sciences</i>	58
PART 2	SOME PAST MASTERS	77
<i>Chapter 4</i>	<i>Count Rumford's European Travels</i>	79

<i>Chapter 5</i>	<i>Humphry Davy's Quest for Research Funding</i>	96
<i>Chapter 6</i>	<i>Michael Faraday as a Materials Scientist</i>	105
PART 3	SOME FOLKS YOU MEET	113
<i>Chapter 7</i>	<i>Christian Klixbull Jørgensen (1931–2001)</i>	115
	Inorganic Spectroscopist Extraordinaire	115
	'Whereof Man Cannot Speak'	126
	Klixbull Jørgensen and the Language of Science	130
<i>Chapter 8</i>	<i>Olivier Kahn (1943–1999)</i>	141
	A (too) Brief Life	141
	Molecules and Magnets: The Legacy of Olivier Kahn	144
<i>Chapter 9</i>	<i>Fred Dainton: Scientist and Public Servant</i>	151
PART 4	MOLECULES, SOLIDS AND PROPERTIES	155
<i>Chapter 10</i>	<i>Magnets from Molecules</i>	158
	The Pre-History	158
	The Chemistry of Magnets	166
	Magnets Without Metals	172
<i>Chapter 11</i>	<i>Mixed-Valence Compounds</i>	175
<i>Chapter 12</i>	<i>Superconductors Past, Present, and Future</i>	188
<i>Chapter 13</i>	<i>Room at the Bottom</i>	209
<i>Chapter 14</i>	<i>Molecular Information Processing: Will It Happen?</i>	216
<i>Chapter 15</i>	<i>Connecting Atoms with Words</i>	237
	Low-Dimensional Materials	237
	Linking Molecules into Solids	238

Exotic Properties	240
Magnetics for Chemists	242
A Magnetic History	244
PART 5 EPILOGUE	247
Learning the Rules of the Game	247
PART 6 BIBLIOGRAPHY	255
Index	259

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Preface

We often forget that the science underpinning our contemporary civilisation is not a marmoreal edifice, fixed forever in its present shape. On the contrary, at each moment as it developed over past centuries, it grew and changed by the efforts of individual people and the institutions they created. Therefore, the tapestry of disciplines that we call by the generic name 'natural science' does not only consist of facts uncovered about the world around us and the laws that connect them. As arguably the finest single product of the human mind, its substance and direction have been strongly conditioned (some might even say determined) by the people drawn to take part in the enterprise and both the physical and social environments in which they have worked. Having had the good fortune to be associated with numerous scientific institutions in various countries over the last forty years, I have had the chance to observe how they came to be what they are, as well as getting acquainted with some of the remarkable personalities (past and present) whose lives and characters have shaped them. In particular, as Director of the Royal Institution of Great Britain and its Davy Faraday Research Laboratory for most of the 1990s, I came to see how that unique body grew out of the preoccupations and personalities of its founding fathers, evolving continuously to meet the challenges of successive generations.

As a result of that background, and in particular the part played by the Royal Institution in what has rather pompously been called 'public

understanding of science', from time to time I have written articles and essays on people and places connected with science, as well as the favourite topics that I have worked on myself. From the beginning, I was keenly aware of the social and historical context in which present-day science must be placed, and that provides the thread linking the topics collected here. Broadly, they divide into three categories: places, people and science. Pride of place in the first category goes to the Royal Institution, but with a side-long glance at others, especially an international laboratory in France, the Institut Laue-Langevin. The second category, people, is divided between giants of the past and some present-day practitioners whose lives I find especially remarkable. As to the third—science—I have plundered the texts of Friday Evening Discourses that I gave at the Royal Institution, as well as other popular accounts of research areas that are still developing and to which I have been able to contribute.

My thanks are due to the owners of the original copyrights on the articles reproduced here. I have edited them to a certain degree to take account of more recent happenings but inevitably (and perhaps it may even be a source of interest) they betray their origins in the times when they were written.

Peter Day

Oxford, January 2005