

Contents

x	Preface
I	Splitting the infinitive Charles R Langmuir
2	Broken English H B G Casimir
5	NPL haiku
6	Four dimensional stress analysis (photograph) P L Kirby
7	Federalese G R Hicks
7	Readability ratings
7	God grant (poem)
8	A note on the game of refereeing JM Chambers and $Agnes$ M $Herzberg$
13	Why should editors not be gluttonous? (quotation)
14	Preparing scientific papers N S Haile
16	Huxley quotation
17	Commandments for the writer of a dissertation
19	Moore's report on Wittgenstein
19	Wittgenstein (quotation) Bertrand Russell
19	A philosophical joke
19	Shaw quotation
20	Royalties: the Quatorze connection Marque Bagshaw
20	Perish, but publish! William J McGlothlin
20	Clarification
2 I	How to win arguments VD Landon
22	The acceptance of a scientific idea JBS Haldane
23	On the reading of scientific papers Eugene F Dubois
23	Clerk Maxwell's comments on Herbert Spencer
23	Advice to lecturers Michael Faraday
24	The use of small dogs in physics teaching A WS Tarrant
	vii

29	Teaching Picasso
30	Teacher evaluation John Gauss
31	Refraction cartoon P Hewitt
31	Proclamation Michael Scott
32	Free thinking Alexander Calandra
34	A revised PhD comprehensive
35	Syllabus for a detective story written by a physics professor $H\ R\ Crane$
36	Challenging experiments John H Reynolds
36	Images WS Franklin and B McNuit
37	Mission statements Richard Chait
38	The rank order on campus Pearl G Aldrich
38	Budget
39	The University hierarchy—who's on top?
40	View from the bottom CEK Mees
4 I	On the problem of innovation Amrom H Katz
42	In the days of old (poem) $\int D Pye$
42	An undergrad from Trinity (poem)
43	The Dreistein case J Lincoln Paine
47	Artsimovich quotation
48	The Hydrogen Dog (poem) Frederick Winsor
48	Science and wisdom (quotation) Arthur Stanley Eddington
48	Punch quotation
49	Sir Edward Victor Appleton's Nobel Award (1947) Ronald Clark
50	Hypothesis A S Parkes
50	Bruno quotation

51	Finagle's laws
52	Twain quotation
53	Murphy's Law (photograph) J A Venables
54	Descent of man D L Austin and J D Bu'Lock
54	Schrödinger quotation
54	Sullivan quotation
54	Doyle quotation
55	Literacy in an age of technology George Steiner
58	How to live with the Philistines Henry E Duckworth
61	A Philistine asks for equal time Sister Johnell Dillon
63	Brain Drain Joan Butt
64	Robert Boyle's tombstone
64	When hydrogen played oxygen (poem)
64	Chemistry and physics (quotation) Frederick Soddy
64	Quips from Orbit
65	Pan's pipes Robert Louis Stevenson
65	Seventeenth-century recognition of resonance Andrew Marvell
65	Voltaire quotation
66	Precipitates on a surface (photograph) Siemens
67	Demon theory of friction Eric M Rogers
69	Natural-science viva, c1890
70	Physics instructor John N Shive
7 I	Moiré cartoon Piggins
72	Influential textbooks: The Feynman lectures on physics Ivar Giaver
73	A lecture to a lady on Thomson's reflecting galvanometer James Clerk Maxwell

74	European atom
75	I'm grateful, Lord, for NMR (poem)
76	Error bars Jerry D Wilson
77	The British high energy physics community John Ziman
80	Blackett quotation
80	Fermi quotation
18	All power to particles
82	The future European harmonic pendulum
87	The fluttering, spiralling flight of cyclotron evolution David L Judd
92	E O Lawrence, driver
93	Ten commandments of electrical safety
94	hv G Stead
94	Darrow quotation
95	Tea-time with Rutherford A S Russell
96	Science commemorated in stained glass: The Zeeman Windows, the John Glenn Window, the Albert Einstein Window and the Space Window (colour plates)
97	Pauli in Heaven
97	Working for Pauli (quotation) Victor Weisskopf
98	Physikalisches Lied Molly Kule
99	Tracking the elusive quark Lewis Grossberger
101	Bohr quotation
101	Spin-orbit coupling Maria Goeppert Mayer
102	Reference frames John N Howard
102	Space and time anecdote about Frank
102	Space Felix Bloch
103	The Einstein and the Eddington WH Williams
	v

105	Einstein's philosophy of science Philipp Frank
106	Relativity Robert Williams Wood
106	Michelson quotation
107	R W Wood—improviser
109	Schuster's library Robert L Weber
109	Hubbard quotation
110	Hetherington and Willard J Hetherington
III	Eddington quotation
I I 2	Captain DeKhotinsky Paul E Klopsteg
114	The Doppler effect Steven Weinberg
115	My anecdotage Ronald D Edge
118	The diabolical heating scheme of J C Maxwell John Lowell
119	Proof by induction Edgar W Kutzscher
119	Stauffer's law of the entropy of change Don Stauffer
119	Twain quotation
120	International Court of Scientific Nomenclature, rival claims of scientists: Celsius vs McKie A S McKie
122	mµ—an opticist's lament M J Merrick
123	The King who kept his 0°C Edward Crowley
124	Name for unit radian frequency M Strasberg
125	On the mathematics of committees, boards and panels Bruce S Old
126	The 'Legal' value of π M H Greenblatt
127	Holmes quotation
127	Functions (quotation) E Kasner and J Newman
128	Science in double dactyls Alan Holden, Jay M Pasachoff and A P French
130	Hymne to Hymen Blanche Descartes xi

135	Saving time: a commentary Norman Sperling
137	Could the earth run backward? J B Priestley
138	Twixt earth and sky with matter-horns Richard H Lyon
139	Astronaut cartoon
140	Astronomical funding M Minnaert
140	Higgledy piggledy (poem) Jeanne Hopkins
140	O, telescope! Johannes Kepler
141	Planetoid for sale H H Turner
141	Celsius—the astronomer
142	The satellite question
145	Astronomical abberation Clarence Day
146	Creation of the Universe Jay M Pasachoff
149	Creation
150	Stressing the astronauts Tom Wolfe
151	On the spot?
152	Confirmation of the discovery of a black hole (photograph) Roy L Bishop
153	Cocking a Snootnik at Sputnik David S Evans
153	Still in the galaxy Jeanne Hopkins
154	A damsel in distress John Scoffern
155	Chemical history is shaped by a maker of wine bottles
157	To err is human
157	A chemical hoax
161	Early molecular biology (illustration)
161	The name of vitamin C
162	Professionalism—to the end
	xii

Resolution of the paradox Abner Shimony

133

162	The purist Ogden Nash
162	The ant Ogden Nash
163	Fellowshipmanship Ian Rose
167	Outline of evolution as dimly recalled from college education Stephen Leacock
168	Struthiomimus J Maynard Smith
169	J B S Haldane quotation
170	The dinosaur Will Cuppy
170	R W Wood Paul E Klopsteg
171	The Pansy and the Chim-pansy R W Wood
172	The dry-rot of our academic biology William Morton Wheeler
176	Name dropping Robert L Weber
177	Pollution Kenneth E Boulding
178	Modelling the cat falling Henry Petroski
180	The speed of the deer fly Robert L Weber
181	Horse breeding Aaron Katchalsky
182	Designer genes: a new look in fish genetics Joel E Cohen
183	The reason life (quotation)
184	Curve fitting David W Roubik and Robert M Hazen
185	Understanding atomic physics (quotation)
186	Biorhythm: imitation of science WS Lyon, FF Dyer and D C Gary
189	The original electrocardiograph (photograph) Cambridge Medical Instruments Ltd
190	On being blinded with science D E H Jones
197	That thing will never work Don Groves
198	Errors and myopia

xiii

199	Weather cartoon Norris
200	Extracts from Modern Geography c1740
201	Continental drip Ormonde de Kay Jr
203	Sir Isaac Newton quotation
204	Acknowledgments

