## The New Walford Guide to Reference Resources

# Volume 1 Science, Technology and Medicine

Editor-in-Chief

Ray Lester BSc PhD FCLIP FRSA

digitalisiert durch: IDS Basel Bern

The new Walford guide to reference resources 2005-

### Contents

Preface vii Quick-start guide viii Editor and subject specialists x 50 good websites to try first xiii Introduction xv

### SCIENCE, TECHNOLOGY & MEDICINE: GENERIC RESOURCES 3

### SCIENCE 47

Mathematics 60 Calculus, Analysis & Differential Equations 71 Discrete Mathematics 73 Geometry & Topology 77 Statistical & Numerical Analysis 78

### Physics & Astronomy 84

Astronomy 89 Astrophysics & Cosmology 96 Modern Physics 104 Nuclear & Particle Physics 106 Optical & Wave Physics 108

### Earth Sciences 112

Geochemistry 120 Geology 123 Geomorphology 133 Geophysics 139 Hydrology 143 Meteorology & Climatology 148 Mineralogy 161 Oceanography 168 Palaeontology 175 Petrology 184 Spatial Technologies 188

### Chemistry 201

Inorganic Chemistry 212 Laboratory Tools & Techniques 214 Organic Chemistry 222 Physical Chemistry 225

### Biological Sciences 229

Animal Behaviour 240 Biochemistry & Biophysics 243 Biodiversity & Conservation 250 Botany 260 Cell Biology 269 Ecology 272 Entomology 280 Evolution & Development 286 Genetics, Genomics & Bioinformatics 290 Marine & Freshwater Biology 299 Microbiology & Virology 308 Mycology 313 Ornithology 316 Parasitology 321 Protistology 323 Systematics & Taxonomy 326 Zoology 329

### Agriculture, Forestry, Fisheries & Food 336

Agriculture 341 Crops & Horticulture 349 Fisheries 354 Food Science & Technology 356 Forestry 362 Livestock 371 Plant & Crop Protection 373 Soil Science 376 Veterinary Science 379

### MEDICINE 387

### Pre-clinical Sciences 399

Anatomy, Physiology & Pathology 400 Biomedical Sciences 404 Human Genetics 408 Medical Technology 412 Pharmacology & Pharmacy 416

### Clinical Medicine 426

Cardiovascular & Respiratory System 432 Dentistry 433 Dermatology 436 Digestive System 437 Endocrine System 438 Geriatrics & Chronic Diseases 440 Immune System 442 Infectious Diseases 444 Musculoskeletal System 446 Nervous System 448 Obstetrics & Gynaecology 452 Oncology 454 Ophthalmology 456 Otorhinolaryngology 458 Paediatrics 459 Psychiatry 460 Surgery 464

### Health 466

Complementary & Alternative Medicine 472 Environmental & Occupational Health 475 Family & Personal Health 485 Hospitals & Other Health Facilities 487 Nursing, Midwifery & Allied Health 489 Nutrition 493 Public Health & Preventive Medicine 496 Reproductive Medicine & Health 500 Sports & Exercise Medicine 504

#### Contonts

#### TECHNOLOGY 509

### Natural Resources & Energy 523

Mining & Minerals Processing 529 Nuclear Energy 534 Oil, Natural Gas & Coal 537 Renewable & Alternative Energy 540

### Engineering 545

Aeronautical & Aerospace Engineering 552 Automotive & Agricultural Engineering 562 Biotechnology 566 Chemical Engineering & Chemical Technology 572 Civil Engineering 582 Construction & Building 596 Design 603 Electrical & Electronic Engineering 608 Environmental Engineering 622 Manufacturing Engineering 635 Marine Engineering & Naval Architecture 644 Materials Science & Engineering 647 Mechanical Engineering 657 Microengineering & Nanotechnology 668

### Information & Communication Technology 672

Computer & Networking Hardware 679 Computer Software & Programming 682 Digital Multimedia 688 Information System Security 690 Telecommunications 693 Web & Internet 699

### TOOLS FOR INFORMATION PROFESSIONALS 705

INDEXES

Topic Index 727

Title/Author Index 737

# The New Walford Guide to Reference Resources

Volume 2 Social Sciences

## Contents

Preface vii Quick-start guide viii Editorial Board and Subject Specialists x Introduction xii

### SOCIAL SCIENCES: GENERIC RESOURCES

### PSYCHOLOGY, SOCIOLOGY & SOCIAL WORK 23

### Psychology 25

History & Theories of Psychology 30 Psychoanalysis 32 Research Methods in Psychology 34 Psychological Testing & Assessment 35 Biological Psychology 39 Cognitive Psychology & Cognitive Science 41 Developmental Psychology 42 Personality & Individual Differences 45 Social Psychology 46 Abnormal & Clinical Psychology 48 Health Psychology 51 Industrial & Organizational Psychology 53 Educational Psychology 54 Forensic Psychology 55 Parapsychology 56

### Sociology 59

Sociological Theory & Methodology 64 Sociologists 64 Sociological Theory 66 Social Structure, Organization & Control 68 Social Structure 68 Social Control 70 Sociology of Population, Family & Gender 73 Sociology of Age-related Groups 73 Sociology of the Family 74 Sociology of Gender & Sexuality 75 Sociology of Race & Ethnicity 80 Sociology of the Environment 82 Sociology of Economics & Work 84 Economic & Production Systems 84 Sociology of Work, Leisure & Sport 85 Sociology of Culture, Communication & the Media 87 Communication Studies 87 Sociology of the Media 88 Communications Technology & New Media 88 Sociology of Religion 90 Sociology of Education 91 Sociology of Health & Illness 93

### Social Work & Social Welfare 95

Social Work Education & Training 103 Social Service Users 105 Alcohol & Drug Misuse 105 Disabilities 107 Older People 112 Black & Minority Ethnic People 115 Children, Young People & Families 117 Mental Health & Social Work 122

### POLITICS, GOVERNMENT & LAW 127

Politics 129 Political Science 129 Political Theory 139 Political Systems 143 Types of Political System or Government 144 Regime Change 147 Political Communication 148 Types of Communication 149 Elections 151 International Relations 158 International Relations Theories & Systems 161 Diplomacy 162 Foreign Policy 163 International Migration & Colonization 166 International Organizations 169 International Security & Conflict Resolution 177 Current International Conflicts & Wars 181 Peacekeeping, Peace Studies & Disarmament 192 Terrorism 200 Parliaments 204 Transnational Parliamentary Bodies 204 National Parliaments 206 Regional & Devolved Parliaments 209 Members of Parliament 211 Political Parties 212 National Political Parties 212 Types of Political Party 214

### Government 219

Central Institutions 219 Australia 221 Canada 221 European Union 222 Guernsey 222 Ireland 222 Isle of Man 223 Jersey 223 New Zealand 223 Northern Ireland 223 Scotland 224 United Kingdom 224 United States 226 Wales 228 State, Regional & Local Institutions 228 England 229 Ireland 230 Northern Ireland 230 Scotland 230 United Kingdom 231 United Kingdom – Subordinate Jurisdictions 232 Wales 232

Law 233 Jurisprudence 236 Comparative Law 236 Systems of Law 238 Civil Law 238 Common Law 239 Religious Legal Systems 239 Socialist Law 241 Public International Law 242 Law of War & Peace 245 Laws of International Organizations 245 Laws of International Relations 248 Laws of Common Areas 252 Laws of Human Rights 255 Laws Concerning Individuals 258 Private International Law 259 Conflict Resolution Law 260 Business Law 262 Trade Law 264 Aviation Law 265 National Jurisdictions 265 Australia 265 Canada 268 England 273 Guernsey 273 Irish Republic 274 Isle of Man 278 Jersey 279 New Zealand 280 Northern Ireland 283 Scotland 285 United Kingdom 289 United Kingdom – Subordinate Jurisdictions 296 United States 299 Wales 304

### FINANCE, INDUSTRY & BUSINESS 307

Finance, Accountancy & Taxation 309 Finance 309 Financial Markets 312 Money Markets & Capital Markets 315 Commodity Markets 317 Derivative, Futures & Options Markets 318 Financial Institutions 319 Banks & Other Lending Institutions 321 Venture Capital Companies 324 Investment Funds 326 Trusts & Charities 327 Pension Funds 328 Financial Management 329 Investment Appraisal 331 Financial Risk 332 Portfolio Investment 334 Corporate Restructuring 335 Land & Property Finance 337 Personal Finance 340

Accounting 342 Management Accounting 344 Financial Reporting 345 Auditing 347 Taxation 348 Tax Law 350 Personal Taxation 351 Company Taxation 352

### Industries & Utilities 353

Aerospace Industry (Civilian) 357 Agriculture, Horticulture, Fishing & Forestry 359 Automotive Industry (Civilian) 360 Chemicals & Plastics Industries 361 362 Construction & Building Industries Cosmetics & Toiletries Industries 363 Defence Industry 363 364 Electronics & Electrical Industries Entertainment, Sport & Leisure Industries 365 Engineering, Manufacturing, Metalworking & Woodworking 368 Environmental Industry 369 Extraction Industries 370 Food, Beverages & Tobacco Industries 372 Media, Publishing & Film Industries 373 Paper & Packaging Industries 374 Pharmaceutical, Healthcare & Biotechnology Industries 376 Professions, Consulting & Service Industries 376 Retail, Luxury Goods, Consumer Goods, Textiles. Clothing & Footwear Industries 377 Shipbuilding Industry (Civilian) 379 Tourism Industry 379 Transport & Distribution Industries 380 Utilities 382 Electricity & Gas 382 Telecommunications 383 Water & Sewage 383

### Business & Management 385

Management Development 391 Management Activities 396 The Enterprise 402 Business Responsibility 414 Marketing 419 Advertising & PR 427 Physical Distribution Management 434 Operations & Technology Management 438 Human Resource Management 443 Decision Sciences 451

### EDUCATION & SPORT 457

Education & Learning 459 Educational Theory 463 Schools 466 Further & Higher Education 469 Lifelong Learning 473 Inclusive Education 475

### Sport 479

Coaching & Performance 484 Health Related Physical Activity 488 International Competitions 491 Physical Education 493 Sociology & Philosophy of Sport 495 Sports Activities 497 Sports History 502 Sports Industry 505 Sports Law 508 Sports Management & Policy 510 Sports Nutrition 512 Sports Participation 513 Sports Psychology 517 Sports Science 519

### MEDIA & INFORMATION 523

### Media & Communications 525

Journalism 532 News & The Press 537 Radio, TV & Film 541 Privacy, Freedom & Censorship 549 Media Watchers & Activists 553 Cyberculture 556

### Information & Library Sciences 561

Information Society 567 Information Literacy 570 Information Policy 573 Knowledge Management 577 Knowledge Organization 579 Cataloguing & Classification 581 Collection Development & Information Resource Management 584 Information Retrieval 589 Libraries & Information Centres 590 Children's & School Libraries 591 College & University Libraries 593 National Libraries 594 Public Libraries 595 Specialist Libraries 597 Library Operations & Organization 598 Information Products & Services 599 Library Administration & Management 601 Library Systems & Technology 603 **Records Management & Archives Administration** 606

### TOOLS FOR INFORMATION PROFESSIONALS 611

### INDEXES

Topic Index 629

### Title/Author Index 635