

Chapter 13

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13.1 Introduction

People working within the area of special access technology will often have need to access a range of resources – sources of information, equipment, expert advice on assessment and support, etc.. The multidisciplinary nature of the field means that resources can be found within educational, health, social services, and the voluntary sector.

Here are some points of contact that may be useful. Note that the support that some agencies can provide may be restricted by geography, or by the type of client with which they work. They should be able to suggest alternatives where they cannot help.

We apologise to any organisations that have been missed, or misrepresented in any way. If you have any more up-to-date information that should be included in a future revision to this guide, please contact the authors.

13.2 Centres and Services

Scotland

National Centres

CALL Centre, 4 Buccleuch Place, Edinburgh EH8 9LW. Tel. 0131 667 1438, Fax 0131 668 4220.

SCET (Scottish Council for Educational Technology), 74 Victoria Crescent Road, Glasgow G12 9JN. Tel. 0141 337 5000, Fax 0141 337 5050.

SCTCI (Scottish Centre of Technology for the Communication Impaired), Victoria Infirmary NHS Trust, Rutherglen Maternity Hospital, 120 Stonelaw Road, Rutherglen, Glasgow G73 2PG. Tel. 0141 201 6425/26, Fax 0141 201 6423

Local Centres

City of Aberdeen – TASSCC (Technological Assessment and Support for Special Children in the Curriculum), Special Needs Computer Base, Summerhill Education Centre, Stronsay Drive, Aberdeen AB15 6JA. Tel. 01224 346127

Aberdeenshire – Graeme Bruce, ASPECTS, Dover Lodge, 117 Charlotte Street, Fraserburgh AB43 9LS. Tel. 01346 512488.

Argyll and Bute – Steve Rotton, Dunoon Primary School, Hillfoot Street, Dunoon, Argyll PA23 7DR. Tel. 01369 704159.

City of Dundee – Linda Booth / Sheena Welsh, BT Assist Centre, Baldragon Academy, Burn Street, Dundee DD3 0LB. Tel. 01382 436331.

East Ayrshire – Muriel Reid, Woodstock Centre, Woodstock Street, Kilmarnock KA1 5BP.

East Lothian – Jennifer MacGregor, Prestonpans Education Centre, Gardiner Terrace, Prestonpans, East Lothian EH32 9ET.

City of Edinburgh - KEYCOMM, St Giles Centre, 40 Broomhouse Crescent, Edinburgh EH11 3UB. Tel. 0131 443 6775

City of Edinburgh – Marie Dougan, ITSU, St Bernard's Education Centre, 21 Dean Park Street, Edinburgh EH4 1JS. Tel. 0131 313 2399.

Fife - FACCT (Fife Assessment Centre for Communication through Technology), Auchterderran Centre, Woodend Road, Cardenden Fife KY5 0NE. Tel. 01592 414730

Fife – Janet Mackie, Auchterderran Centre, Woodend Road, Cardenden, Fife KY5 0NE. Tel. 01592 414600.

City of Glasgow, Tommy Crocket, c/o Richmond Park School 30 Logan Street, Glasgow G5 0HP. Tel. 0141 429 6095.

Highland – Alan Stewart, Education Centre, Castle Street, Dingwall IV15 9HU. Tel. 01349 863441.

North Ayrshire – Deirdre McLaughlin, Psychological Services, Vineburgh Park, Irvine KA12 8RR. Tel. 01294 272427.

North Lanarkshire – Owen Dunn, Psychological Services, Kyle Road, Kildrum, Cumbernauld. Tel. 01236 731130.

Orkney Islands – Ray Richards, Papdale House, Berstane Road, Kirkwall, Orkney KW15 1NA. Tel. 01856 874

Scottish Borders – Philip Whittaker, Melrose Resource Centre, Huntly Road, Melrose, Borders TD6 9SB. Tel. 01896 823517.

South Lanarkshire – Sandra O’Neill, Computer Centre, Earnock High School, Wellhall Road, Hamilton ML3 9UE. Tel. 01698 422658.

West Lothian – Laura Compton, Livingston Education Centre, Kingsport Avenue, Howden, Livingston EH54 6BA. Tel. 01506 777424.

Teachers with responsibility for SEN and microtechnology meet from time to time within the **SSENTSG (Scottish Special Educational Needs and Technology Support Group)** network. For information about SSENTSG, contact Marie Dougan at ITSU, or the CALL Centre. The current SSENTSG list is available on the CALL web site.

England

National Centres

ACE Centre, Ormerod School, Waynelete Road, Headington, Oxford OX3 8DD. Tel. 01865 763508, Fax 01865 750188

ACE / ACCESS Centre, 1 Broadbent Road, Watersheddings Oldham OL1 4HU. Tel. 0161 627 1358.

Advisory Unit: Computers in Education, 126 Great North Road, Hertfordshire AL9 5JZ. Tel 01707 266714

CENMAC, Eltham Green Complex, 1A Middle Park Avenue, London SE9 5HL. Tel. 0181 850 9229.

Local Centres

Barnet LSS, Educational Services, Friern Barnet Lane, London N11 3DL. Tel: 0181 359 3220

Barnet PDC, 451 High Road, Finchley, London, N12 0AS, Tel: 0181 359 3858

Bedfordshire MEU, Russell House, 14 Dunstable Road, Ampthill, Bedfordshire, MK45 2JT, Tel: 01525 405220

Berkshire Education Centre, East Hampstead Road, Wokingham RG40 3DF. Tel: 0118 977 3045

Birmingham Centre for Access Technology, Beechcroft, The Gardens, 12 -14 Fentham Road, Erdington, B23 6AG, Tel: 0121 244 1001

Birmingham, Martineau Education Centre, Balden Road, Harborne, Birmingham, B32 2EH, Tel: 0121 428 1174, Fax: 0121 428 1180

Bolton IT Centre, Castle Hill Centre, Castleton Street, Bolton, BL2 2JW, Tel: 01204 366497

Bradford Edit Office, T F Davies Centre, Rosemount, Clifton Villas, off Manningham Lane, Bradford, BD8 7BY, Tel: 01274 493535

Bristol Education Centre, Sheridan Road, Horfield, Bristol, BS7 0PU, Tel. 0117 922 2000 ext 228

Buckinghamshire Abbey Computer Centre, County Hall, Walton Street, Aylesbury,

Buckinghamshire, HP20 1UZ, Tel: 01296 383376

Buckinghamshire, SENIT Resource Base, Green Street, High Wycombe, Buckinghamshire, HP11 2RA, Tel: 01494 473141

Cambridge Education IT, Cambridge Road, Waterbeach, Cambridge, CB5 9NJ, Tel: 01223 566 456, Fax: 01223 863 023

Cheshire Micro Unit, Crewe Road, Willaston, Nantwich, Cheshire, CW5 6NE, Tel: 01270 661045

Chester LSS, Oulton Place, George Street, Chester CH1 3HX, Tel: 01244 377346,

Clwyd Erlas Centre, Bryn Estyn Road, Wrexham, Clwyd, LL13 9TY, Tel: 01978 310000

Cornwall CCET, Pondhu House, Penwinnick Road, St Austell, Cornwall, PL25 6DP, Tel: 01726 69284

Cornwall ISG, Lerryn Building, Old County Hall, Truro TR1 3AY. Tel: 01872 322 269

Coventry, Room 5 Computing, Elm Bank Teachers' Centre, Mile Lane, Coventry, West Midlands, CV1 2LQ, Tel: 01203 228258

Chapter 13 Resources

- Croydon**, Schools Advisory Service, Davidson Professional Centre, Davidson Road, Croydon, Surrey, CR0 6DD, Tel: 0181 655 1299, Fax: 0181 656 1544
- Cumbria** Citac Project, 5 Portland Square, Carlisle, Cumbria, CA1 1PU, Tel: 01228 606909, Fax: 01228 812512
- Darlington** ICT Centre, Beaumont Hill School, Glebe Road, Darlington, DL1 3EB, Tel: 01325 380787, Fax: 01325 380881
- Derbyshire** DESCIT, Chesterfield Road, Matlock, Derbyshire, DE4 3FW, Tel: 01629 580000
- Devon** Babbage IT Centre, Park Road, Dartington Hall, Totnes, Devon, TQ9 6EQ, Tel: 01803 867082
- Doncaster** IT Service, Carr House Centre, Danum Road, Doncaster, DN4 5HF, Tel: 01302 734710
- Dorset** IT Centre, Bovington Middle School, Bovington Wareham, Dorset BM20 6NU. Tel: 01929 405 059
- East Sussex**, Eastbourne Professional Centre, Trevin Towers, Gaudick Road, Eastbourne, BN20 7SP, Tel: 01323 649595
- Gateshead**, Technical Support Service, Dryden PDC, Evestones Road, Gateshead, NE9 5UR, Tel: 0191 482 4133
- Guernsey** IT Centre, La Houquette School, Guernsey, GY7 9LA, Tel: 01481 66351
- Halifax**, Calderdale ITAL, Heath Training & Development Centre, Free School Lane, Halifax, HX1 2PS, Tel: 01422 252125
- Hampshire** Microtechnology Centre, Connaught Lane Paulsgrove, Portsmouth, Hampshire PO6 4SJ. Tel: 01705 378266
- Haringey** IT Centre, Downhills Park Road Haringey, London N17 6AR. Tel: 0181 881 5298
- Hereford and Worcester** IT Service, Fininstall Centre, Stoke Road, Bromsgrove, B60 3EN. Tel: 01527 574654
- Hertfordshire**, Wheathampstead Education Centre, Butterfield Road, Wheathampstead, Hertfordshire, AL4 8PY, Tel: 01582 830300
- Hounslow** Education Centre, Martindale Road, Hounslow, Middlesex, TW4 7HE, Tel: 0181 569 5840
- Huddersfield**, Kirklees, Deighton Training Centre, Deighton Road, Deighton, Huddersfield, HD2 1JP. Tel: 01484 225724
- Jersey** PDC, Education Department, Highlands, St Saviour, Jersey, JE4 8QJ, Tel: 01534 509327
- Kingston upon Hull**, HUMMEC, Hull Education Centre, Coronation Road North, Hull. HU5 5RL, Tel: 01482 883790
- Lancashire** Schools IT Centre, 103 Preston New Road, Blackburn. Lancashire, BB2 6BJ, Tel: 01254 682244, Fax: 01254 582563
- Leeds** EdIT Centre, Hammond Hall, Elmete PDC, Elmete Lane, Leeds, LS6 2JW, Tel: 0113 232 3046
- Lincolnshire**, Ashleigh Curriculum Centre, 9 Cross O'Cliff Hill, Lincoln, LN5 8PN, Tel: 01522 544713
- Lincs.** North SENSS , South Leys Campus, Enderby Road, Scunthorpe DN17 2JL. Tel: 01724 864 098
- Liverpool**, Liverpool IT Education, Dulcie Cottages, Riversdale Road, Liverpool, L19 3QN, Tel: 0151 225 8127
- Manchester**, IT for Schools, Unit 50-52, Greenheys Business Centre, 10 Pencroft Way, Manchester, M15 6JJ, Tel: 0161 226 9154, Fax: 0161 227 9233
- Newcastle** Education IT, University of Northumbria, Coach Lane Campus, Newcastle Upon Tyne, NE7 7XA, Tel: 0191 270 0424
- Newcastle** IT Centre, PHEDC, Pendower Hall West Road, Newcastle-on-Tyne NE15 6PP. Tel: 0191 228 0161.
- North East**, Judith Stansfield, Farm Cottage, 24 East Road, Melsonby Richmond DL10 5NF. Tel: 01325 718139
- North Yorkshire**, CCEC, Room 605, County Hall, Northallerton, Nr Yorkshire, DL7 8AE, Tel: 01609 780780, Fax: 01609 778611
- Northallerton**, P & P Services, Northallerton, 121-123 High Street , Northallerton Yorks DL7 8PQ. Tel: 01609 780 860
- Northampton**, Northants Computer Education Centre, Covington Street , Northampton NN1 5JU. Tel: 01604 24190
- Nottinghamshire**, Fountaindale School, Nottingham Road, Mansfield, Nottinghamshire. NG18 5BA, Tel: 01623 792671, Fax: 01623 797849
- Nottinghamshire**, The Sandfield IT Centre, Sandfields Road, Lenton, Nottingham, NG7 1QH, Tel: 0115 953 5052
- Oldham**, Fitton Hill CDC, Rosary Road, Fitton Hill, Oldham, OL8 2QE, Tel: 0161 6270565
- Oxfordshire** Computer Education Centre, Wheatley Centre, Littleworth Road, Wheatley. Oxford, OX33 1PH, Tel: 01865 875257

Redbridge SERC, Little Heath School, Hainault Road, Little Heath, Romford, RM6 5RX. Tel: 0181 597 7848

Rochdale PDSS, Hamer CP School, Albert Royds Street, Rochdale OL16 2SU. Tel: 01706 31520

Salford LEA Inspection Advisory, Salford Education Centre, London Street, Salford, M6 6QT, Tel: 0161 743 4200

Sandwell EMU, Popes Lane, Oldbury, Warley, B69 4PJ, Tel: 0121 544 2001

Sefton, SENSS, Gores Lane, Formby, L37 3NY, Tel: 01704 879608

Sheffield, Nether Edge CPD Centre, Union Road, Sheffield, S11 9EH, Tel: 0114 255 0174

Shropshire, SITSS, Bourne House, Radbrook Centre, Shrewsbury, Shropshire, SY3 9BJ. Tel: 01743 246043

Solihull, SUITE, Chapel Fields Centre, Richmond Road, Solihull, B92 7RZ, Tel: 0121764 6176

Somerset Education Department, County Hall, Taunton, Somerset, TA1 4DY, Tel: 01823 355787

South Shields, ITs All Over Now, 65 Cauldwell Villas, South Shields, NE34 0SX, Tel: 0191 421 9016

St Helens, Special Needs Computing, 39 Eccleston Gardens, St Helens, Merseyside WA10 3BF. Tel: 01744 24608

Staffordshire SECC, Church Lane, Hixon, Stafford ST18 0PS Tel: 01889 271317

Stockport Dialstone Centre, IT Curriculum Development Centre, Lisburn Lane, Offerton Stockport SK2 7LL. Tel: 0161 474 2227

Suffolk Learning Support, Adrian House, Alexandra Road, Lowestoft Suffolk NR32 1PC. Tel: 01502 405254

Surrey, Kingston Schools IT Unit, Kingsdowne Curriculum Centre, Ewell Road, Surbiton. Surrey, KT6 6HL, Tel: 0181 547 6847

Tees Valley, Educational Computing Centre, Prissick Base, Marton Road, Middlesbrough, Cleveland, TS4 3RZ. Tel: 01642 325417

Tyne and Wear, Education Technology Centre, Linskill Centre, Preston Avenue, North Shields, NE30 2BD, Tel: 0191 200 5865

Wakefield IT Centre, Woolley Hall, Woolley, Wakefield, WF4 2JR, Tel: 01226 384451

Waltham Forest, Schools Computer Support Unit, Education Centre, Queen's Road, Walthamstow, London, E17 8QS, Tel: 0181 521 3311

Warwickshire EDS, Manor Hall Sandy Lane, Leamington Spa CV32 6RD. Tel: 0926 413741

Wiltshire, The WEST IT Centre, Unit 10, Prince Maurice Court, Hambleton Avenue, Devizes, SN10 2RT, Tel: 01380 720721

York Education Support Services, 26 Clarence Street, York YO3 7EP. Tel: 01904 553 829.

Communication Aid Centres

Access to Communication and Technology (ACT), Oak Tree Lane Centre, Oak Tree Lane, Selly Oak, Birmingham, B29 6JA Tel. 0121 627 8235.

Communicate, The Lodge, Regional Rehabilitation Centre, Hunters Road, Newcastle upon Tyne NE2 4NR. Tel. 0191 2331567.

Communication Aids Centre, Frenchay Hospital, Frenchay, Bristol BS16 1LE. Tel. 0117 9701212.

Communication Aids Centre, Southampton General Hospital, Tremona Road, Southampton SO9 4XY. Tel. 01703 777222.

Communication Aids Centre, Treliiske Hospital, Truro, Cornwall. Tel. 01872 74242..

Communication Aids Centre, The Wolfson Centre, Mecklenburgh Square, London WC1N 2AP. Tel. 0171 837 7618.

Communication Aids Resource Centre, St George's Hospital, Long Leys Road, Lincoln. Tel. 01522 512512.

Communication Aids Service, Community Health Sheffield, 7 Edmund Road, Sheffield S2 4EA. Tel. 01142 716830.

Communication Aids Centre, Rookwood Hospital, Fairwater Road, Llandaff Road, Cardiff CF5 2YN. Tel. 01222 566281.

Communication Aids Centre, Musgrave Park Hospital, Stockman's Lane, Belfast BT9 7JB. Tel. 01232 669501.

Mary Marlborough Centre, Windmill Road, Headington, Oxford OX3 7LD. Tel. 01865 741155.

SCAMP (Switch, Communication and Mobility Provision), Chailey Heritage, North Chailey, Lewes BN8 4EF. Tel. 01825 722112.

ACCESS Centres

ACCESS Centres have been set up in various parts of the country to increase access to further and higher education, training and employment for people with disabilities.

The National Federation of ACCESS Centres, Hereward College of Further Education,
Bramston Crescent, Tile Hill Lane, Coventry CV4 9SW. Tel. 01203 461231. *This is the co-ordinating centre for all ACCESS Centres.*

Northern Ireland

Belfast, Mountcollyer Technology Centre, 111-113
Limestone Road, Belfast BT15 3AB, Tel: 01232
352435

Co Durham, Darlington LSS, 'Craig Lea', Uplands
Road, Darlington, Co Durham DL3 7SW, Tel:
01325 388195

Co Tyrone, Omagh, Technology Education Centre, 2
Spiller's Place, Co Tyrone BT78 1FA. Tel:01662
240809

Co. Durham SENSS, Broom Cottages Primary
School Broom Road, Ferryhill, Co Durham,
DL17 8AN. Tel: 01740 652443

Ireland

Dublin, Ann Jackson, Central Remedial Clinic,
Vernon Avenue, Clontarf, Dublin 3, Eire Tel:
00353 1833 2206

Wales

Cardiff, ACCE Teachers Centre, Cefn Road,
Mynachdy, Cardiff CF4 3HS, Tel: 01222 624
888

Carmarthenshire, Griffith Jones Centre, St. Clears,
Carmarthen, Dyfed, SA33 4BT, Tel: 01994
231223

Neath & Swansea Baglan IT Centre, Elmwood Road,
Port Talbot, W Glamorgan SA12 8TF. Tel:
01639 822 656

Powys, County IT Support Team, Southfields, County
Hall, Llandrindod Wells, Powys. LD1 5LG, Tel:
01597 826707

South Glamorgan, ACCE, Cefn Road, Mynachdy,
Cardiff, CF4 3HS, Tel: 01222

West Glamorgan, Baglan IT Centre, Elmwood Road,
Baglan, Port Talbot, SA12 8TF, Tel: 01639
822656

Wrexham IT Support Unit, Erlas Centre, Bryn Estyn
Road, Wrexham Clwyd LL13 9TY. Tel: 01978
310 000

13.3 Associated Organisations

There are a number of agencies, voluntary organisations and other bodies that may also provide useful information and assistance. These include:

AbilityNet (a new charity formed between the Computability Centre and the Foundation for Communication for the Disabled). Addresses below.

British Computer Society Disability Group, c/o Christine Goldsmith, EASAMS Ltd., Rm C126, Great Baddow Chelmsford CM2 8HN. *Producers of excellent newsletter on access to computers.*

British Educational Communications Technology Agency Milburn Hill Road, Science Park, Coventry CV4 7JJ. Tel. 01203 416994. Formerly the National Council for Educational Technology (NCET). *National body promoting use of IT in education.*

British Dyslexia Association, 98 London Road, Reading Berkshire RG1 5AU. Tel. 01734 662677. *Provides support for people concerned with dyslexia.*

Communication Matters (ISAAC UK), c/o ACE Centre, Ormerod School, Waynefleete Road, Headington, Oxford OX3 8DD. Tel. 0870 606 5463. *Voluntary organisation concerned with the needs of people with severe communication difficulties.*

Computability Centre, PO Box 94, Warwick, Warwickshire CV34 5WS. Tel. 01926 312847. *Provides advice in the use of computers by people with disabilities.*

Disability Information Trust, Mary Marlborough Centre, Nuffield Orthopaedic Centre, Headington, Oxford OX3 7LD. Tel. 01865 227592. *Publishers of books providing information on equipment for people with disabilities.*

Dyslexia Computer Resource Centre, Department of Psychology, University of Hull, Hull HU6 7RX. Tel. 01482 465589. *Provides information on use of computers for people with dyslexia.*

Dyslexia Institute, 133 Gresham Road, Staines, Middlesex TX18 2AJ. Tel. 01784 463851.

Foundation for Communication for the Disabled, Beacon House, Pyford Road, West Byfleet KT14 6LD. Tel. 01932 336512 *Independent charity supplying and supporting computer systems designed for people with disabilities.*

Micros and Primary Education (MAPE), c/o Mrs. Y. Peers, MAPE, Technology Centre, Newmand College, Genners Lane, Bartley Green, Birmingham B32 3NT.

National Association of Special Needs Education, NASEN House, 4 and 5 Amber, Business Village, Amington, Tamworth, Staffordshire B77 4RP. Tel. 01827 311500.

Royal National Institute for the Blind (RNIB), 224 Great Portland Street, London W1N 6AA. Tel. 0171 388 1266. *National charity for visually impaired people.*

Resource, Resource Centre, 51 High Street, Kegworth, Derby DE74 2DA. Tel. 01509 672222.

Scottish Sensory Centre, Moray House Institute of Education, Holyrood Road, Edinburgh EH8 8AQ. Tel. 0131 558 6501. *Promotes education for people with sensory impairments.*

SKILL, 336 Brixton Road, London SW9 7AA. Tel. 0171 274 0565. *National charity working to provide opportunities in education for people with disabilities.*

13.4 Suppliers

ACE Centre, Ormerod School, Waynflete Road, Headington, Oxford OX3 8DD, Tel. 01865 63508.

Advisory Unit for Computers in Education (AU Enterprises Ltd) 126 Great North Road, Hertfordshire AL9 5JZ. Tel 01707 266714.

Aptech Limited, Aptech House, Meadowfield, Ponteland, Newcastle-upon-Tyne NE20 9SD Tel: 01661 860999.

Atkinson Engineering, Unit 7, Premier Mill, Begonis Street, Darwen, Lancs. BB3 2DP. Tel. 01254 773524.

CALL Centre, 4 Buccleuch Place, Edinburgh EH8 9LW. Tel. 0131 667 1438.

CAC (Cambridge Adaptive Communication), The Mount, Toft, Cambridge CB3 7RL. Tel. 01223 264244

Chailey Heritage, Rehabilitation Engineering Unit, North Chailey, Lewes, BN8 4EF. Tel. 01825 722112.

Computer Choice, Park House, 17-19 Park Road, Sunbury-on-Thames TW16 5BX, 01932 777700.

Concept Keyboard Company, 9 Murrills Estate, Portchester, Hampshire PO16 9RD Tel. 01705 372233.

Crick Computing, 123 The Drive, Northampton, NN1 4SW. Tel. 01604 713686.

Data Sound Ltd., Gates House, 111/113 Fortis Green, London N2 9HR. Tel. 0181 883 6421.

Design Concept, 30 South Oswald Road, Edinburgh EH9 2HG. Tel. 0131 668 2000.

Don Johnston Special Needs Ltd., 18 Clarendon Court, Calver Road, Winwick Quay, Warrington, WA2 8QP. Tel. 01925 241642.

Dudley Controls Ltd, 10 Granby Industrial Estate, Granby Court, Blechley, Milton Keynes, Bucks. MK1 1NL. Tel. 01908 640777.

Dynamic Abilities, The Coach House, 134 Purewell, Christchurch, Dorset BH23 1EU. Tel. 01202 479955.

Electrone, Unit 1 Central Park, Bellfield Road, High Wycombe, Bucks HP13 5HG, Tel. 01494 511999.

Enabling Devices / Toys for Special Children 385 Warburton Avenue, Hastings-on-Hudson, NY 10706, USA. Tel. 00 1 914 478 0960

Endeavour Technologies, Colette House, 234 Station Road, Surrey KT 15 2PH Tel: 01932 827 324.

Evesham Micros, St Richards Road, Four Pools Industrial Estate, Evesham, Worcs. WR11 6TD, Tel. 0800 6345 999.

FCD (Foundation for Communication for the Disabled), Beacon House, Pyford Road, West Byfleet KT14 6LD. Tel. 01932 336512

Gordon Harwood Computers, New Street, Alfreton, Derbyshire DE55 7BP, Tel. 01773 836781.

Gus Communications, Inc. 1006 Lonetree Ct. Bellingham, WA 98226, USA.

HCS Global, 2 Cartsdyke Avenue, Greenock, Renfrewshire, PA15 1DT. Tel. 01475 500012.

Heinemann, Heinemann Educational, FREEPOST, PO Box 381, Oxford OX2 8BR. Tel. 01865 314320

Holdfast Computing, Park View, Queenhill, Upton upon Severn, Worcs. WR8 0RE. Tel. 01684 594702

IANSYST Ltd, The White House, 72 Fen Road, Cambridge, CB4 1UN, UK. Tel: 01223 420101 Fax: 01223 426644.

Ideal Hardware, 265 Burlington Road, New Maldon, Surrey, KT3 4NW. Tel. 0181 286 5000.

IMG, 21550 Oxnard Street, Suite 300, Woodland Hills, California 91367 USA. 1-818-346-3581

Inclusive Technology, Saddleworth Business Centre, Huddersfield Road, Oldham OL3 5DF, Tel. 01457 819790.

Inmac, Stuart Road, Manor Park, Runcorn, Cheshire WA7 1TH. Tel: 0990 134 239.

Interface Designs, 12 East Meads, Onslow Village, Guildford, Surrey GU2 5SP. Tel. 01483 32909.

Jonathan Duddington, 6a Old Mill Avenue, Coventry, CV4 7DY. Tel. 01203 415535

KCS, PO Box 700, Southampton SO17 1LQ. Tel. 01703 584314.

Keyboard Company, The Studio, Lypiatt, Stroud, Glocs. GL6 7LW. Tel. 01453 88522.

- LaceLink Ltd.**, 13 Pinehurst, Sevenoaks, Kent TN14 5AQ. Tel. 01732 763221
- Liberator**, Whitegates, Swinstead, Lincs. NG33 4PA. (Tel. 01476 84391)
- Logotron**, 124 Cambridge Science Park, Milton Road, Cambridge CB4 4ZS. Tel. 01223 425558
- Lorien Systems** Enkalon Business Centre, 25 Randalstown Road, Antrim, Co. Antrim, BT 414 LJ, N. Ireland. Tel. 01849 428105
- MacLine**, Mill House, Mill Lane, Carshalton, Surrey, SM5 2WZ Tel. 0181 401 1111.
- MacWarehouse**, Unit 6, Wolsey Business Park, Tolpits Lane, Watford, Herts. WD1 8QP, Tel. 0800 181332.
- Mayer Johnson**, P.O. Box 1579, Solana Beach, CA 92075, USA. Tel. (619) 550-0084
- McIntyre Computer Systems**, 22809 Shagbark, Birmingham, MI 48025.
- Michaelis Engineering**, 13 Spencer Road, Buxton, Derbyshire SK17 9DT. Tel. 01298 23882.
- Microsoft**, Microsoft Campus, Thames Valley Park, Reading RG6 1WG. Tel. 0870 60 10 100.
- Misco**, Faraday Close, Park Farm Industrial Estate, Wellingborough, Northants. NN8 6XH. Tel. 01933 400400.
- MPS Electronics**, PO Box 777, Rayleigh, Essex SS6 8LU. (Tel. 01702 554171)
- Neat Ideas Ltd**, Sandall Stones Road, Kirk Sandall, Doncaster, DN3 1QU. Tel. 0800 500 192.
- Nottingham Rehab** Ludlow Hill Road, West Bridgford, Nottingham NG2 6HD. Tel. 0115 945 2345
- P.C.D. Maltron Ltd**, 15 Orchard Lane, East Molesey, Surrey KT8 0BN Tel. 0181 398 3265.
- Possum Controls Ltd**, Middlegreen Road, Langley, Slough, Berks. SL3 6DF. (Tel. 01753 579234)
- QED Ltd.**, Ability House, 242 Gosport Road, Fareham, Hampshire PO16 0SS. Tel. 01329 828444.
- Rehability Ltd.**, 36 Station Road, Billingshurst, West Sussex RH14 9SE. 01403 786062.
- REM (Rickitt Educational Media)** Great Western House, Langport, Somerset TA10 9YU. Tel. 01458 253636
- REMAP**, c/o Mr J.J. Wright, 'Hazeldean', Ightham, Sevenoaks, Kent TN15 9AD Tel. 01732 883818.
- Resource**, 51 High Street, Kegworth, Derby DE74 2DA, Tel. 01509 672222.
- RM (Research Machines)** New Mill House, 183 Milton Park, Abingdon, Oxon OX14 4SE. Tel. 01235 826000
- SCET**, 74 Victoria Crescent Road, Glasgow G12 9JN. Tel. 0141 337 5000.
- SEMERC**, 1 Broadbent Road, Watersheddings, Oldham, OL1 4LB. Tel. 0161 627 4469
- Sight & Sound Technology** Qantel House, Anglia Way, Moulton Park, Northampton NN3 6JA. Tel. 01604 798070
- Special Access Systems**, 4 Benson Place, Oxford OX2 6QH. Tel. 01608 811909.
- Spyder Engineering**, Station Road Industrial Estate, Whittlesey, Peterborough, Cambridgeshire PE7 2EY. Tel. 01933 674340.
- Stuart Tyrrell Developments**. PO Box 183, Oldham, OL2 8FB. Tel. 0976 255 256
- TAG Developments** 25 Pelham Road, Gravesend, Kent DA11 0HU. Tel. 01474 357350
- Talking Technologies Ltd.**, 34A Glazbury Road, London W14 9AS Tel: 0171 602 4107.
- Tandy Education Supplies & Services**, Intertan UK Ltd, Tandy Centre, Leamore Lane, Walsall WS2 7PS. Tel. 01922 434047.
- Technomatic** Techno House, 468 Church Lane, London NW9 8UF. Tel. 0990 246 222.
- TFH**, 76 Barracks Road, Sandy Lane Industrial Estate, Stourport-on-Severn, Worcestershire, DY13 9QB. Tel. 01299 827820.
- Toby Churchill Ltd**, 20 Pantown Street, Cambridge CB2 1HP. Tel. 01223 316117.
- VR Systems**, VR_Systems U.K., Unit 8, Farm Business Centre, East Tytherley Road, Lockerley, Romsey, Hampshire S051 OLW. Tel. 01794 342050.
- Watford Electronics**, Jessa House, Finway, Dallow Road, Luton LU1 1TR, Tel. 01582 745577.
- Widgit Software**, 102 Radford Road, Leamington Spa, Warwicks. CV31 1LF. Tel. 01926 885303
- Xemplar Education** 700 Great Cambridge Road, Enfield, Middlesex EN1 3BR. Tel. 01223 724200

13.5 Internet Resources

- AbilityNet** <http://www.abilitynet.co.uk> Web site with lots of useful information about access and use of IT for people with disabilities.
- Ablenet** – <http://www.ablenetinc.com/index.html> Ideas and resources, plus information about the Ablenet range of switches and devices (eg. Jelly Bean switches, Big Macks).
- ACE Centre** – <http://www.rmplc.co.uk/orgs/acecent/homepage.html> Information and software. Publishers of *SAW* and other software.
- ACE/ACCESS Centre** – <http://dSPACE.dial.pipex.com/town/terrace/ac969/>
- Adaptive Technology Resource Center, Univ. of Toronto** – <http://www.utoronto.ca/atrc>
- Advisory Unit** – <http://www.advisory-unit.org.uk/> Information and resources about *Windows Switch*, *Point for Windows*, and other software.
- Apple Disability Access** – <http://www2.apple.com/disability/default.html> Information and software for Macintosh computers.
- Assistive Technology On Line** – <http://www.asel.udel.edu/at-online/assistive.html>
- British Educational Communications Technology Agency (BECTA)** – <http://www.becta.org.uk/index.html>
Formerly the National Council for Educational Technology.
- Blissymbolics Communication International** – <http://home.istar.ca/~bci>
- CALL Centre** – <http://call-centre.cogsci.ed.ac.uk/CallHome> Information and links to other sites.
- Closing the Gap** – <http://www.closingthegap.com/index.html>
- Comp.Speech FAQ** – (<http://squid.eng.cam.ac.uk/comp.speech/index.html>) This is a site with answers to frequently asked questions regarding all aspects of computers and speech.
- Concept Keyboard Company** – <http://www.conceptkey.co.uk> The Concept Keyboard and accessories site.
- Cornucopia of Disability Information** – <http://codi.buffalo.edu/>
- Crick Computing** – <http://www.cricksoft.com> Information and resources about *Clicker*.
- Design Concept** – <http://www.jasper.com.uk/penfriend/> Penfriend predictor web site.
- Diana Carroll's Mouse List** – <http://www.setbc.org/mouselist/> Excellent information and reviews of mice and pointing devices.
- Disability Net** – <http://www.disabilitynet.co.uk/>
- Don Johnston** – <http://www.donjohnston.com/> Information and resources for Discover, Ke:nx and other Don Johnston software and products.
- Dundee University, MicroCentre** – <http://www.computing.dundee.ac.uk>
- EASI (Equal Access to Software and Information)** – <http://www.rit.edu/~easi/>
- Edmark** – <http://www.edmark.com/> Publishers of *Millie's Maths House*, *Thinkin Things*
- Enabling Devices** – <http://www.enablingdevices.com/> North American firm manufacturing a wide range of switches, interfaces and mounting systems.
- Endeavour Technologies** – <http://www.endeavour.co.uk/>. Leading UK supplier for *DragonDictate*.
- Facilitated Communication Institute, Syracuse University** – <http://soeweb.syr.edu/thefci>
- Family Village** – <http://www.familyvillage.wisc.edu/>
- Gus Communications, Inc.** - <http://www.gusinc.com> Suppliers of Gus! access and communication programs.
- Iansyst Ltd.** – (<http://www.dyslexic.com/>) Supplier for text to speech products.

- IBM Software** – (http://www.software.ibm.com/is/voicetype/uk_menu.html). Information on *SimplySpeaking*, *ViaVoice* and other IBM products.
- IBM Special Needs Solutions** – <http://www.austin.ibm.com/pspinfo/snshome.html>
- Inclusive Technology** <http://www.inclusive.co.uk/default.htm> An excellent practical introduction to the range of alternative keyboards and pointing devices available.
- INDIE (Integrated Network of Disability Information and Education)** – <http://indie.ca/eg/main.html>
- Innovation Management Group** – <http://www.IMGPresents.com> Distributes access utilities and devices, including Joystick-to-Mouse
- Intellitools** – <http://www.intellitools.com/> The IntelliKeys site, with downloadable resources for Intellikeys.
- John Lodge** – <http://www.dorton.demon.co.uk/ATS/pointer.htm> Information and utilities for visually impaired users, including enlarged pointers for Windows.
- KCS** - <http://www.keytools.com> – Distributors of alternative keyboards and pointing devices.
- LAB Resources** – <http://www.execpc.com:80/~labres/>
- MAPE** – <http://www.chelt.ac.uk/guests/mape/> Micros and Primary Education web site. Information and software deals.
- MARDIS** – <http://www.lancs.ac.uk/users/mardis/>
- Meldreth Manor School** – <http://www.rmplc.co.uk/eduweb/sites/meldreth/> Ideas and information for symbol users.
- Microsoft Accessibility Site** – <http://www.microsoft.com/enable> Microsoft accessibility information and programs which can be down-loaded.
- Microspeed** – <http://www.microspeed.com/newsite/index.html> Mice, trackball and keyboard manufacturers.
- NCIP** – <http://www.edc.org/FSC/NCIP/> U.S. association with lots of useful information, advice on classroom applications, and reviews of software.
- PC Magazine** – <http://www.hotfiles.com/demo/utilities.html> Various utilities including the ZDKeyMap utility.
- Prentke Romich Company** – <http://dialup.oar.net/~Pprco/>
- QED** – <http://www.qedltd.uk.com/> Switches, mountings, communication aids and wheelchairs.
- RESNA** – <http://www.resna.org/>
- RJ Cooper** – <http://www.rjcooper.com/index.html> Supplier of software and access devices for people with disabilities, including the SAMTrackball and SAMJoystick.
- RNIB** – <http://www.rnib.org.uk/> Royal National Institute for the Blind.
- SCET** – <http://www.scet.org.uk/> Scottish Council for Educational Technology.
- SCOPE** – <http://www.futurenet.co.uk/charity/scope/index.html>
- Screen Magnifiers** – <http://www.plex.nl/~pverhoe/> information and reviews on screen magnifier programs.
- Semantic Compaction Systems** – <http://128.2.110.35/scs/>
- Sherston** – <http://www.sherston.com/index.html> Publishers of *Talking Books* and *Naughty Stories*.
- Special Access Systems** – <http://www.CityScape.co.uk/users/cd34/>
- Stuart Tyrrell Developments** – <http://www.stdevel.demon.co.uk>. Suppliers of joystick adapters and software.
- Talking Technologies International Ltd.** – <http://www.talk-systems.com/>. UK supplier for *Kurzweil VoicePad* voice recognition.
- TASH** – <http://www.valleyweb.com/tash/index.html#1> TASH web site: keyboards and switches.
- Trace Centre**, University of Wisconsin – <http://trace.wisc.edu/> Information, lists of programs, links to other sites, downloadable freeware, shareware and demonstration versions of programs.
- Typing Injury Web site** – <http://www.tifaq.com/> Excellent information about typing injury, keyboards, pointing devices, furniture, as well as list of products and links to manufacturers' web sites.

VoiceUsers Mailing List – <http://voicerecognition.com/voice-users/>. Details of a discussion group for people using VR systems can be obtained from this site. The archive of previous discussions can be found at <http://www.uk.hpl.hp.com/people/ange/archives/archives-97/voice-users-archive/index.html>

WAACIS <http://www.tens.co.uk/waacis/for-disabled-surfers/welcome.html> A project providing access to the Internet for people with disabilities.

Widgit – <http://www.widgit.com/index.htm> Excellent site with lots of information about symbols, switch software and techniques for introducing switches and scanning.

Words+ – <http://www.words-plus.com/mnframe.htm> Information on EZ Keys and other Words+ communication and computer access products.

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Appendix 1: Policy and Provision for Special Access Technology

The National Curriculum and the Code of Practice

The five Stages of the Code of Practice (1993) are designed to provide a continuum of provision to reflect the continuum of need across the school population. Stage 1 is the lowest level of provision, while Stage 5 is the highest. Chapter 1 of NCET's *Access Technology* describes the stages and offers case examples and for the benefit of Scottish and other readers not working within England and Wales these are summarised in Table 13-1.

Table 13-1 Stages of the Code of Practice

Stage 1	The class teacher has responsibility for providing support within the classroom setting, with help from the IT and SEN co-ordinator. NCET refer to this as <i>shared provision</i> [Access Technology p.5].
Stage 2	The class teacher and SEN co-ordinator draw up an Individual Education Plan to specify how the equipment is to be used, and identify goals and tasks. Additional support may also be available to assist this <i>targeted provision</i> .
Stage 3	External specialist services are called upon to provide support to the school staff and pupil, including provision and possible loan of appropriate technology. This is classed as <i>designated provision</i> .
Stage 4	At Stage 4, the LEA undertakes a statutory assessment of the pupil's needs.
Stage 5	A Statement of Special Educational Needs is produced by the LEA at Stage 5. The Statement may specify particular items of equipment for use by the pupil, either provided by the school or from the LEA. Use of technology at Stages 4 or 5 is referred to as <i>individual or specified provision</i> .

Special Access and the Scottish 5-14 Curriculum

In Scotland, the education system is different: the National Curriculum does not apply (apart from in a small number of independent schools); there are no Statements; nor are there Special Educational Needs Co-ordinators. Nevertheless, similar issues arise when considering assessment and provision of access technology for pupils with special educational needs.

The Scottish 5-14 Curriculum is a development programme run by the Scottish Office. In the early 1990s the Scottish Office produced a set of curriculum guidelines to help schools implement a balanced and effective curriculum.

Primary education and the first two years in secondary follow the guidelines contained in various publications describing the '5-14 Curriculum', which "is intended to apply to all pupils whether in special or mainstream schools" (SCCC, 1993, p.10). It is the responsibility of the teacher, school and Education Authority to devise pathways through the curriculum to meet the needs of each pupil. *Support for Learning Parts 1 and 2* (SCCC, 1993) contain an introduction on how this might be achieved and describe the relative roles of school, support and specialist external staff. *Part 3*

Appendix 1: Policy and Provision for Special Access Technology

contains specific advice for implementing the curriculum with pupils with: physical disabilities; visual impairment; hearing impairment; moderate learning difficulties; complex learning difficulties; and social, emotional and behavioural difficulties.

Under the Education (Scotland) Act of 1981, Education Authorities have a general duty to secure “adequate and efficient provision of school education, including provision for pupils with special educational needs” (Thomson, Stewart & Ward, 1996, p.1). The legislation recognises that levels of provision for special educational needs will vary widely, and requires Education Authorities to identify children who “have special educational needs which are pronounced, specific or complex and are such as require continuing review, and to open and keep a Record of Needs for each child” (Thomson, Stewart & Ward, 1996, p.2).

HM Inspectorate recommend a step-wise progression leading to opening a Record of Needs, which in some respects is similar to the ‘Stages’ model leading to Statementing, within in the Code of Practice. The outline below is drawn from ‘The Steps in identifying and assessing pupil’s special educational needs at the primary stage’, (SOED, 1994, p.38). (The model is adapted for pre-school, secondary and further education within the document.)

Table 13-2 Steps of Scottish 5-14 Curriculum

Step 1	Identification of difficulties in learning The class teacher is responsible for identifying learning difficulties through normal classroom practice, and adjusts the teaching programme accordingly.
Step 2	Referral to Learning Support Co-ordinator If pupils have continuing difficulties the teacher consults with the school learning support co-ordinator and individual support may be given to the pupil by specialist staff. “At this point, the school has to set up learning support arrangements which assist the majority of the pupils with special educational needs to make progress. Their progress and the nature of the provision are monitored and necessary adjustments are made” [Effective Provision for Special Educational Needs” p.38].
Step 3	Referral to support services outwith the school If the special educational needs are not being met within the school, the teacher and learning support co-ordinator consult the headteacher, and the pupil may be referred to external learning support, or to the psychological service.
Step 4	Consideration of the pupil’s needs by the educational psychologist Following consultation with parents and assessment, the educational psychologist writes a report which may include advice on the content of the curriculum and learning and teaching strategies. Other support services may also be called upon to assess and provide recommendations. For many pupils, no further steps are required.
Step 5	Consideration is given to opening a Record of Needs If the headteacher, parents and normally educational psychologist agree that a Record of Needs should be opened, the statutory process is initiated.
Step 6	Medical examination and psychological assessment The pupil is assessed by medical officer and educational psychologist and reports prepared.
Step 7	Meeting to discuss opening of Record of Needs School staff, external professionals and parents meet to discuss the assessments. If they decide to open a Record of Needs, those needs are defined and levels of provision specified and sent to the Director of Education within the Authority for action.
Step 8	Opening the Record of Needs A draft of the Record is sent to parents for approval. Once approved, the Record is officially ‘opened’ and copies distributed.

Providing Special Access within the Code of Practice and the 5-14 Steps

With regard to special technology (and other types of provision) Stages 1-3 and Steps 1-4 are very similar.

Table 13-3 Stages and Steps for Provision of Special Access

Stage 1 / Step 1	At the lowest level of provision it is expected that needs will be met from within the classroom resources. One example might be a pupil using a standard classroom computer on a time-tabled basis alongside the rest of the class.
Stage 2 / Step 2	The next level of provision involves making some specific technological arrangements to meet the needs of an individual pupil, again within the resources available within the school. Examples of access technology might include: alterations to the keyboard response (e.g. turning down the auto-repeat); the use of overlay keyboards or on-screen word banks; or particular devices or software adapted specifically for the pupil.
Stage 3 / Steps 3 & 4	This level involves referral to a specialist agency dealing with special technology. In England and Wales this may be the SENCO or centres such as the two ACE Centres, or CENMAC, amongst others. In Scotland, the school would refer to the local authority SSENTSG (Scottish Special Educational Needs Technology Support Group) representative, the CALL Centre, or (via a speech and language therapist), to SCTCI. (See Chapter 14 for addresses and telephone numbers of these agencies.) The referral may result in an assessment and possibly loan of appropriate special access equipment not available within the school. This might include portable writing aids; expanded or miniature keyboards for use with computers already available within the classroom; or particular software packages such as screen readers or magnifiers for pupils with visual impairment.
Stages 4 & 5 / Steps 5-8	A Statement or Record of Needs will specify particular items of equipment and teaching practices which must be provided. Here, we might be talking about provision of a more complex portable computer or augmentative communication device for sole use by the pupil, with all necessary adaptations, modifications and support.

Implications of the Steps and Stages for Special Access Technology

These are examples of IT provision and expertise which might be expected at each level. Special or larger mainstream schools with considerable experience may have a much higher level of expertise and equipment available within the school than smaller mainstream schools who have little experience of pupils with special educational needs.

There is an expectation by government that pupils at all five Stages and all eight Steps will use appropriate special access technology. Those at Stage/Step 3 and above may *depend* on technology to access the curriculum to a greater degree.

This in turn implies that class teachers, responsible for pupils at Stage/Step 1, should be aware of the range of access possibilities, and be capable of adapting the common information technology used within their classrooms. In other words, they should be acquainted with the simple adaptations to the standard keyboard and mouse that are covered in Chapters 3 and 4, and should have some working knowledge of the technologies covered in the rest of the book.

IT and SEN co-ordinators and Learning Support specialists could reasonably be expected to be competent with the more commonly used special access equipment such as overlay and other keyboards and mouse alternatives for pupils at Stage/Step 2 (see Chapters 3 through 5 on alternatives to the keyboard and mouse).

Pupils at Stage and Step 3 and above may need input from other professionals in addition to the support from the class team and IT and SEN co-ordinator, to assess for and implement more complex and specialised access technology (see Chapters 6 through 11 which discuss some of these systems).

This division of labour and responsibility may apply to assessment, but it should not apply to support within the classroom – clearly, if a learner is using a specialised on-screen keyboard program accessed by switch and scan, then the school staff working with the pupil must be confident in using the technology.

Also, as we noted earlier, assessment is not a ‘one-off’ event. Experience has shown that it is not effective for schools to rely on the specialists to ‘assess’ the pupil and provide the ‘solution’ because the expertise to use these systems and adapt to the changing needs of the pupil and the curriculum is needed every day within the school. Consequently, there are schools which have integrated ‘general’ IT (IT as used in Stages/Steps 1 to 3) into daily classroom activity to a high degree, but which have not been able to get to grips with the more specialised access needs of pupils with more severe involvement. One aim of this book is therefore to provide a resource for teachers and co-ordinators to support use of special access technology, following assessment, provision and training by specialist external agencies.

The research which resulted in this book has shown that expertise and application of special access technology varies considerably across Scotland. There is a need for both basic awareness and more advanced specialist training at in-service and undergraduate levels. We hope that this book will provide a comprehensive reference source and textbook to assist the development and delivery of such courses.

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