The register of research currently underway in Europe on visual impairment contains a scan-column index of approximately 60 research topics and an alphabetical list of 204 research workers. Criteria for selection are explained to have limited project inclusion to studies of conditions which have so far proved intractable to amelioration through medical intervention. Research topic descriptors include terms such as adventitious, attitudes (toward blindness), compressed speech, guide dogs, and rubella. Readers are instructed to select the descriptor best describing the area of interest and then to scan the appropriate numerical column of the index for the selected alphabetical symbol to obtain names of researchers working on that subject. The alphabetical list of researchers includes postal addresses and a brief description of their current research project. The following are examples of listed research projects: evaluation of closed circuit television aids for the partially sighted, spatial organization and blindness in the course of development, and development of a program for teaching blind children to read embossed maps. (DB)
EUROPEAN REGISTER OF RESEARCH ON VISUAL IMPAIRMENT

compiled by

J.M. Gill and M.J. Tobin

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CV4 7AL Birmingham 15
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May 1974
Foreword

This register of research, comprising listings of work under way in Europe, is the first effort of its kind. That it is a flawed masterpiece, it is true; but that it is a masterpiece is to the credit of Drs. Gill and Tobin. Our desire to point up its deficiencies is no masochistic exercise; nor will we be revealing more than any careful user will discover for himself in using this register. Our purpose in mentioning the shortcomings of the compilation is two-fold: first, to emphasize that it is a first attempt of its kind, produced at little cost, and under the several pressures of the time available; second, to underscore the fact that the compilation is the first of a series, each of which in turn should reflect greater accuracy, wider coverage, and more consistent format and rules for its content.

In a first effort, one attempts to establish a few rules for choosing the data included in a survey, without making them so restrictive that no entry passes the "rules". Such is the case for example, with medical research. The basic question that we had to answer was: where does one "cut off" the relatedness of medical, clinical, and ophthalmological research so that we preserve maximal relevance to visual impairment and blindness? It is not easy to provide an answer with a "good fit" to the data. We chose to decide what is relevant on the basis of that group of conditions which has so far proved intractable to amelioration through medical intervention (1). We also judge acceptable relevant studies that show promise of yielding answers to the problems of amelioration of diseases whose etiology and management are reasonably well understood, as in the case of cataracts, where some new perspective is gained in research currently under way.

I have expatiated somewhat on this issue because it is similar to the dilemmas posed in almost every one of the areas of research covered by this register: psychosocial, educational, sociological, statistical, and--last but not least--technological. One of the persistent dilemmas in our field is aroused by an attempt to delimit our scope of interest--where does one "cut off"? Surely, if one of the goals of rehabilitation is to restore a style of living, or make possible a given style of life, then almost anything relevant to the human condition is also relevant to a researcher. In this

situation, one can only attempt operational definitions that define areas of interest that will of necessity shift over time. Although this bears the real danger of exposing us to "fads" in research, just as the rest of the world endures fads in fashion, we try to be sensible in our enthusiasm and in our perspective.

A further problem has to do with the level of generality of the entries. Some of the projects noted here are described very generally; others describe quite specific research undertakings. There is value in both types of description. In future editions of this register, we hope to include a general statement for each project listed, and at least one specific (project) following that general description. The first statement will set the context within which a given researcher works; the second statement will then give some sense of his current work and current interests.

Finally, the matter of completeness and of accuracy of entries. It is well understood in documentation research that it takes as much effort to achieve the last five percent of coverage of a complete "universe" of data as it does to compile the first 95 percent of coverage. Inevitably, this means that our listings are incomplete. Similar constraints on time spent and effort expended mean that the accuracy of listings depend critically on what researchers reported to us of what they are doing. Those readers familiar with work in a given area of research may well note that some projects known to them have been omitted; and some will note that incompleteness of an entry, or downright errors in one, may give a false impression of work that is now under way. We shall depend on our readers to aid us in remedying these defects.

But, as I started out by emphasizing, Drs. Gill and Tobin have no reason to be shy over their considerable accomplishment in providing the research community with this magnificent first attempt to survey work related to research in visual impairment in the European community. The IRIS has been proud to assist them in their effort, and we hope that the product of all this work will find favour with the international community of research in whose interest this effort has been expended. We shall welcome comments from users of this survey; you may address your comments to Dr. Gill, to Dr. Tobin, or to IRIS.

Leslie L. Clark
I.R.I.S.
New York
Introduction

This register has been divided into two parts:

1. Scan-column index of research topics. To use the scan-column index you select the descriptor(s) which best describe your interest. You then scan the appropriate column(s) of the index for the selected symbol(s). If your interest is specific you may have to search for two or three symbols at once.

2. Alphabetical list of research workers with their postal addresses and brief description of their current research projects.

The register will be updated periodically so could you please send any alterations to J.M. Gill, Department of Engineering, University of Warwick, Coventry CV4 7AL, England.

The authors are most grateful for the considerable help and encouragement they have received from Prof. Dr. W. Boldt, Dr. L.L. Clark, V. Fedorenko, Prof. Dr. Hudelmayer, J.I. Lindstrom, Dr. M.J.C. Mommers, Miss M.J. Saunders, Prof. Dr. Med. W. Starkiewicz, Prof. N. Trowald and Ir. A.N. Westland.

FURTHER INFORMATION


The primary purpose of the International Research Information Service (IRIS) is to supply researchers with needed information from a broad range of natural, behavioural and technological sciences, bearing on problems arising from sensory impairment, and especially visual impairment. IRIS also publishes Research Bulletin, prepares bibliographies, state-of-the-art reports, and evaluations. For more information about these services, which are available to all qualified researchers, you should write to Dr. L.L. Clark, IRIS, American Foundation for the Blind, 15 West 16th Street, New York 10011, U.S.A.
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37 EBLE B.A.
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38 EKBERG PROF. S.
DEPARTMENT OF TELECOMMUNICATION NETWORKS AND SYSTEMS, THE ROYAL INSTITUTE OF TECHNOLOGY, 100 44 STOCKHOLM 70, SWEDEN.
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39 ENGEL F.L.
INSTITUTE FOR PERCEPTION RESEARCH, INSULINDELAA 2, EINDHOVEN, NETHERLANDS
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40 ERB J.
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41 FANKHAUSER DR.MED.PROF. F.
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42 FEKTISTOVA MRS. V.A.
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43 FERRIES G.W.
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44 FERRIS A.J.
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45 FEUK T.
INSTITUTION FOR ELECTRONIC PHYSICS II, CHALMERS UNIVERSITY OF TECHNOLOGY, GOTHENBURG, SWEDEN.
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46 FORNAEUS L.
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47 FRENK DR. H.
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WITH R.PROBST: DEVELOPMENT OF OPTICAL AIDS FOR THE BLIND.

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THE COURAGE LABORATORY OF OPHTHALMOLOGY, THE ROYAL EYE HOSPITAL, ST. GEORGE'S CIRCUS, LONDON SE1 0BA, ENGLAND.
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49 FRITSCH PROF. S.
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50 GARDINER DR. P.A.
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51 GILL, DR. J.M.
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52 GOODMAN, DR. W.
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53 GNEUSHEVA, MRS. A.N.
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54 HAGNER, I.
DEPARTMENT OF SOCIOLOGY, DROTTNINGGATAN 1 UPPSALA, SWEDEN.
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55 HAMPshire, B.
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ENGLAND.
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56 HARDING, DR. G.F.A.
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57 HAUSER, PROF. HOCHSCHULE HEIDELBERG, ABT. FUR BLINDEN UND SEHBEHINDERTENPÄdagogik,
69 HEIDELBERG, ZIEGELHAUSER LANDSTR. 35, WEST GERMANY.
THE ROSENZWEIG-PIC TURE-FRUSTRATION TEST WITH PARTIALLY-SIGHTED CHILDREN.

58 HEATH, DR. H.
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SCHOOL, UNIVERSITY STREET, LONDON WC1E 6JJ, ENGLAND.
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59 HEGINBOTHAM, PROF. W.B.
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AND PRODUCTION MANAGEMENT, UNIVERSITY OF NOTTINGHAM, UNIVERSITY PARK,
NOTTINGHAM NG7 2RD, ENGLAND.
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FA. LEITZ, WETZLAR, D633 WETZLAR, WEST GERMANY.
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61 HELLER, PROF. DR. K.
PAD, HOCHSCHULE RHEINLAND, ABTEILUNG BONN, D-53 BONN, ROMERSTRABE 164,
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62 HENGSTLER, M.
PAD, HOCHSCHULE HEIDELBERG, ABT. FUR BLINDEN UND SEHBEHINDERTENPÄdagogik,
69 HEIDELBERG, ZIEGELHAUSER LANDSTR. 35, WEST GERMANY.
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63 HENRICSSON L.E.
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DEVELOPMENT OF READING AND WORKING TABLE FOR THE VISUALLY IMPAIRED.
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EXPERIMENTAL STUDY OF CONCEPTS OF SPACE IN CONGENITALLY BLIND CHILDREN.

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DEVELOPMENT OF SENSORY AIDS FOR THE BLIND AND HARD OF HEARING BLIND.

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FIELDS, LONDON WC2A 3PN, ENGLAND.
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67 HOFFIELD M.
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BEHAVIOURAL DISTURBANCES OF PARTIALLY-SIGHTED PRIMARY SCHOOLCHILDREN.

68 HORN DR.PHIL. H.
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KREUZSTRASSE 155, 46 DORTMUND, WEST GERMANY.
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70 HUDELMAYER PROF. DR.
PÄD. HOCHSCHULE HEIDELBERG, ABT. FUR BLINDEN UND SEHBEHINDERTENPÄDAGOGIK,
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PÄDAGOGISCHE HOCHSCHULE RUHR, D 46 DORTMUND, LINDEMANNSTR. 84,
WEST GERMANY.
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NAVIGATION IN BLIND PEDESTRIANS, DEVELOPMENT OF TACTUAL MAPS AND TEACHING
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BIRMINGHAM B15 3TN, ENGLAND.
SYSTEMS OF ILLUSTRATION FOR THE VISUALLY HANDICAPPED, EXPERIMENTAL
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74 JANSE H.J.
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CLOSED CIRCUIT T.V. READING AID.
75 JANSSON PROF G.
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S-752 20 UPPSALA, SWEDEN.
LINEAR AND AREAL SYMBOLS FOR TACTILE MAPS. OPTIMAL PROPERTIES OF THE LONG
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PEDAGOGICKA FAKULTA UK, 110,00 PRAHA 1, KAPROVA 14, CZECHOSLOVAKIA.
EMBOSSED ILLUSTRATIONS FOR BLIND CHILDREN.

77 JOHANSSON K.A.
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SWEDEN.
RESEARCH ON THE SITUATION OF THE NEWLY BLIND.

79 JUNKERS DR5. H.L.
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81 JUURMAA DR. J.
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82 KAMMINGA IR. C.
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83 KAPLAN MRS. A.I.
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119117 MOSCOW, USSR.
STUDY OF AETIOLOGY, PATHOGENESIS OF CLINICAL FORMS OF THE VISION DEFECTS
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84 KEMNA IR. L.J.A.J.
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85 KLEIN-GERBER M.
PADAGOGISCHE HOCHSCHULE RUHR, D 46 DORTMUND, LINDEMANNSTR. 84,
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THE SOCIAL ADJUSTMENT OF BLIND AND PARTIALLY-SIGHTED PEOPLE ON LEAVING
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86 KOULAGIN PROF. Y.A.
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PEDAGOGICS, 8 POGODINA STR., 119117 MOSCOW, USSR.
PECULIARITIES OF COGNITIVE ACTIVITY OF THE BLIND AND PARTIALLY-SIGHTED.
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90 KRUGER H.
PAD. HOCHSCHULE HEIDELBERG, ABT. FUR BLINDEN UND SEHBEHINDERTENPADAOGIKI,
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91 KUBLER H.
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AN ANXIETY TEST FOR PARTIALLY-SIGHTED CHILDREN IN NORMAL SCHOOLS.

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STUDY ON ELECTRONIC DEVICES FOR SPACE IDENTIFICATION FOR THE BLIND.

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94 KUPPERS DR.ING. H.J.
WISSENSCAPHTLICHES INSTITUT FUR REHABILITATION UND BERUFELICHE BILDUNG
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DEVELOPMENT OF SYSTEMS FOR COMPUTER TRANSLATION OF TEXT TO BRAILLE,
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95 KURCZ MGR.ING. E.
POLSKE ZAKLADY OPTYCZNE PZO, 03 839 WARSZAWA, UL. GROCHOWSKA 316, POLAND.
WITH J. CHALECKI AND S. WYSOCKI: DEVELOPMENT AND CONSTRUCTION OF A LOW COST
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SPEAKING-RULE FOR THE DEAF/BLIND.

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A STUDY OF THE DEVELOPMENT OF VISUAL PERCEPTION OF CHILDREN ATTENDING
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100 LEWIS DR. J.W.
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WITH J.M.JENKIN: DEVELOPMENT OF SOFTWARE FOR USE WITH AN ON-LINE COMPUTER TERMINAL WITH PAGED BRAILLE OUTPUT.

101 LIBMAN DR. E.S.
EXAMINING OF CAPACITY FOR WORK AT THE EYE-DISEASES AND QUESTIONS OF EMPLOYMENT OF THE BLIND AND PARTIALLY-SIGHTED.

102 LIE DR. I.
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DEVELOPMENT OF TESTS FOR ASSESSMENT OF FUNCTIONAL VISION IN PARTIALLY SIGHTED PERSONS.

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DESEMINATION OF RESEARCH FINDINGS AMONG PRACTITIONERS AND THE VISUALLY HANDICAPPED.

104 LINDSTROM J.I.
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INVOLVED IN THE DEVELOPMENT OF: AN ORIENTATION AID CONSISTING OF A NUMBER OF SOUND BEACONS PLACED ALONG A ROADSIDE; GUIDE WIRE DEVICES; INDICATOR FOR END OF PAPER FOR A TYPEWRITER; EQUIPMENT FOR DRAWING BY THE BLIND; READING AND WRITING EQUIPMENT FOR MULTI-HANDICAPPED CHILDREN; ELECTRONIC THERMOMETER; NEW OPTICAL AIDS; CLOSED CIRCUIT TV SYSTEM FOR THE PARTIALLY-SIGHTED; READING AND WORKING TABLE FOR THE VISUALLY IMPAIRED; TESTING OF LIGHTING; ADAPTION OF BUILDINGS AND OTHER FORMS OF PHYSICAL ENVIRONMENT FOR THE VISUALLY HANDICAPPED.

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PRELIMINARY INVESTIGATION CONCERNING TACTILE STIMULATORS FOR THE BLIND.

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COMPUTER PROGRAM TO PRODUCE BRAILLE OUTPUT.

108 LOTKMAN M.
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INVOLVED IN AN ANALYSIS OF READING BEHAVIOUR IN BRAILLE.

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WITH A.HORNELL AND D.MCQUEEN: EYE GLASSES WITH VARIABLE LIGHT TRANSMISSION.

110 MANNESSON B.
TELUB AB, FACK, S-351 11 VAXJU, SWEDEN.
WITH B.DAHLBERG, H.ENGSTROM, S.A.HALTSJO AND J.OLOFSSON: TACTILE DISPLAYS FOR ELECTRONIC CALCULATORS AND DIGITAL MULTIMETERS; READING AID CONSISTING OF A MODULAR CLOSED CIRCUIT T.V. SYSTEM; ELECTRONIC THERMOMETER FOR THE VISUALLY HANDICAPPED.
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INVOLVED IN THE EVALUATION OF THE OPTACON: METHODS AND EFFECTS OF TRAINING

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ASSESSMENT OF VISUAL ACUITY BY OBJECTIVE MEANS IN THE HANDICAPPED CHILD.

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DEVELOPMENT OF COMPUTER BRAILLE PRODUCTION SYSTEMS AND A HIGH-SPEED BRAILLE TAPE PRINTER (900 CHARACTERS/MIN.).

114 MERSI PROF.DR.
PAD, HOCHSCHULE HEIDELBERG, ABT. FUR BLINDEN UND SEHBEHINDERTENPADAGOGIK, 69 HEIDELBERG, ZIEGELHAUSER LANDSTR. 35, WEST GERMANY.
METHODS OF TEACHING PARTIALLY-SIGHTED CHILDREN. VISUAL TRAINING OF PARTIALLY-SIGHTED CHILDREN. EVALUATION OF TEACHING AIDS FOR THE PARTIALLY-SIGHTED.

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EDUCATION OF THE DEAF-BLIND CHILDREN.

116 MINEKUS N.J.
LAB. VOOR FIJNMECHANISCHE TECHNIEK, LEEGHWATERSTRAAT 1-3, DELFT, NETHERLANDS.
DEVELOPMENT OF A PUNCHED CARD READER, BRAILLE LINE PRINTER AND A PAPER ROLLER FOR STORING TAPE FROM A BRAILLE SHORTHAND MACHINE.

117 Mommers DRs. M.J.C.
INSTITUUT VOOR ONDERWIJKSCUNDE, KATHOLIEKE UNIVERSITEIT, ERASMUSLAAN 40, NIJMEGEN, NETHERLANDS.
STANDARDIZATION OF SOME BRAILLE-READING TESTS FOR THE ELEMENTARY GRADES. DEVELOPMENT OF A TACTUAL FORM DISCRIMINATION TEST AND A TACTUAL SIZE DISCRIMINATION TEST FOR CHILDREN (AGE 7-14 YEARS). EXPLORATION OF FACTORS RELATED TO THE READING ABILITY OF BLIND PUPILS IN THE ELEMENTARY GRADES. REPICATION OF AN EXPERIMENTAL STUDY ABOUT RIGHT AND LEFT HAND BRAILLE READING FROM HERMELIN AND O’CONNOR.

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STUDY OF SENSORY DEVELOPMENT OF THE BLIND CHILDREN.

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EDUCATION AND VOCATIONAL SITUATION OF BLIND AND PARTIALLY-SIGHTED INDUSTRIAL WORKERS.

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TIYPHTHELTECHNIQUE AND OPTICAL MEANS FOR THE VISION DEFECTS CORRECTION.

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ASSESSMENT OF VISUAL ACUITY BY OBJECTIVE MEANS IN THE HANDICAPPED CHILD.

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RESEARCH CENTRE FOR THE EDUCATION OF THE VISUALLY HANDICAPPED, UNIVERSITY OF BIRMINGHAM, 50 WELLINGTON ROAD, EDBASTON, BIRMINGHAM 15, ENGLAND. INVESTIGATION OF FORMER PUPILS OF CONDOVER HALL SCHOOL FOR MULTI-HANDICAPPED BLIND ADOLESCENTS. SCIENCE TEACHING FOR BLIND AND
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STUDYING DIFFERENT METHODS OF CONVEYING GRAPHICAL INFORMATION TO BLIND STUDENTS.

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STUDY OF ELECTRICAL ACTIVITY OF THE CEREBRUM OF THE BLIND.

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EXPERIMENTAL STUDY OF CONCEPTS OF SPACE IN CONGENITALLY BLIND CHILDREN.

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INTELLIGENCE TEST FOR PARTIALLY-SIGHTED SCHOOLCHILDREN IN NORMAL SCHOOLS (WISC).

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EVALUATION OF CLOSED CIRCUIT TELEVISION AIDS FOR THE PARTIALLY-SIGHTED.

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134 RABENHORST DR.
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INVESTIGATION FOR THE VALIDATION OF THE INS INTELLIGENCE TEST WITH
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THE SOCIO-ECONOMIC BACKGROUND OF BLIND CHILDREN.

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INVESTIGATIONS OF THE ACADEMIC ACHIEVEMENT OF PARTIALLY-SIGHTED AND
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WITH E.SCHAFFER, K.-P.LINDENMULLER AND H.BUCHEL:
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SPEECH IMPEDIMENTS OF CHILDREN AT PARTIALLY-SIGHTED SCHOOLS.

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DEVELOPMENT OF A LOW COST AND UNCOMPLICATED PICTURE CONVERTER FOR USE IN
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158 Shear, H.
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With C.G. Korteakaas and Y. Barendrecht: Automatic Braille Printer.

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ROLE PERFORMANCE OF THE VISUALLY HANDICAPPED. THE BLIND PERSON AS A MEMBER OF DIFFERENT SOCIAL GROUPS.

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WITH J.A. BEVERIDGE, P. CROOK AND T.D. TRENHOLM: DEVELOPMENT OF DUPLICATOR FOR BRAILLE DOCUMENTS IN SMALL QUANTITIES.

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VISUAL EVOKED RESPONSES IN NORMAL ADULTS AND CHILDREN, AND IN PATIENTS WITH KNOWN VISUAL FIELD DEFECTS: MACULAR AND PERIPHERAL RETINAL LOSS, AMBLYOPIA AND CATARACTS, SKIN ERG RECORDINGS IN NORMALS AND PATIENTS WITH ABNORMAL VISION. EVOKED RESPONSE DIAGNOSIS OF VISUAL AND AUDITORY DEFICITS IN NON-COMMUNICATING CHILDREN.

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COGNITIVE GROWTH AND SCHOOL ACHIEVEMENT IN THE VISUALLY HANDICAPPED CHILD.
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DEVELOPMENT OF TELECOMMUNICATION EQUIPMENT FOR THE DEAF-BLIND.

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COMPARATIVE STUDY OF THINKING IN BLIND CHILDREN IN PRIMARY SCHOOLS.

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EDUCATIONAL RESEARCH OF LEARNING PROBLEMS FOR THE VISUALLY HANDICAPPED.
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LONGITUDINAL RESEARCH INTO THE DEVELOPMENT OF PREVERBAL COMMUNICATION AND EMERGENCE OF LANGUAGE IN INFANTS BORN BLIND.

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A DANISH REGISTRATION OF NUMBER, DIAGNOSES & GEOGRAPHICAL DISTRIBUTION OF BLIND PERSONS WHO ARE ALSO MENTALLY RETARDED. IN COOPERATION WITH THE DANISH SCHOOL FOR THE BLIND: DEVELOPMENT OF A TRAINING PROGRAM FOR MULTI-HANDICAPPED BLIND CHILDREN. IN COOPERATION WITH THE DANISH JOHN F. KENNEDY INSTITUTE: INVESTIGATION OF THE FREQUENCY AND GENOTYPES OF RETINITIS PIGMENTOSA IN DENMARK. STUDY OF SELECTED PERSONS WITH METABOLIC EYE DISEASES. STUDY OF SPORADIC CASES OF NORRIE'S DISEASE.

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AN INVESTIGATION OF THE SOCIAL INTEGRATION OF BLIND ADULTS.

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WITH J. CHALECKI AND E. KURCZ: CONSTRUCTION OF MULTICANALELECTROPHOTALM OF
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