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ABSTRACT

This booklet is divided into two sections. Section 1, "A Few Words on Language, Courtesies, and Stereotypes," gives suggestions on speaking to and about people with disabilities. Principles of language use include: (1) put people first, not their disability; (2) avoid identifying a group of people as a disability category; (3) avoid emotional or degrading terms; and (4) distinguish between the terms "disabilities" and "handicaps" and between the terms "nondisabled" and "normal." Among 12 suggested courtesies are talking directly to the person with a disability, even if an interpreter or attendant is present and asking before helping an individual with a disability. Ways to overcome stereotypes, both positive and negative, are also suggested. Section 2, "Human Resources," lists 80 individuals who have agreed to act as consultants on questions of science, technology and disability. The list is cross-referenced by expertise, academic field, and disability to aid efforts to identify resource individuals to fit particular needs. Information provided for each consultant includes name, address, telephone number, academic field, degree(s), current position(s), field(s) of expertise, disability, and age of onset of disability. (DB)

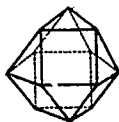
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ACCESS IN
WORD AND DEED

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BARRIER
FREE
IN BRIEF



ACCESS IN
WORD AND DEED



AMERICAN ASSOCIATION FOR THE
ADVANCEMENT OF SCIENCE

1333 H Street, N.W.
Washington, DC 20005
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INTRODUCTION

Barrier-Free in Brief: *Access in Word and Deed* is part of the AAAS "Barrier-Free" series. It is a companion to *Barrier-Free: Workshops and Conferences for Scientists and Engineers*, *Barrier-Free: Laboratories and Classrooms in Science and Engineering*, and *Barrier-Free: Access to Science Literacy*. We hope you will find all four booklets in the series useful.

This booklet has two sections. Section I, "A FEW WORDS ON LANGUAGE, COURTESIES, AND STEREOTYPES," gives suggestions on speaking to and about people with disabilities. Section II, "HUMAN RESOURCES," lists 80 individuals who have agreed to act as consultants on questions of science, technology and disability. The list is cross-referenced by expertise, academic field and disability to aid efforts to identify resource individuals to fit particular needs.

I. A FEW WORDS ON LANGUAGE, COURTESIES AND STEREOTYPES

LANGUAGE

Sticks and stones may break my bones, but words can really hurt me.

The language we use says a lot about our thoughts and attitudes. The wrong words can hurt and exclude people. The right words show care and respect. This includes the way we talk to and about people with disabilities.

Over the years people with disabilities have agreed on a language etiquette that is accurate and considerate. This does not mean that this language is fixed; usage changes. What it does mean is that this is the language people with disabilities prefer now (1991). We don't refer to our friends by names other than those of their own choosing. By using the following guidelines, we are simply giving people with disabilities the same kind of basic courtesy by referring to them in terms of their choice.

Put People First, Not Their Disability

Say "person with a disability," "student who is deaf," or "chemist who had polio." This puts the focus on the individual rather than on a particular functional limitation.

Avoid Identifying a Group of People as a Disability Category

Say "scientists who are blind" or "people with disabilities" instead of "the blind" or "the disabled."

Describe Mobility Aids or Other Technology as Useful Devices to the Individual Rather Than Extensions of Themselves

Say "uses a wheelchair," or "walks with crutches" rather than "wheelchair-bound" or "confined to crutches." No one is actually bound to a wheelchair — they just use it to get around. After all, we wouldn't describe someone who uses planes to travel long distances as "plane-bound."

Avoid Emotional or Degrading Terms

Never use "afflicted with," "victim of," "unfortunate," "pitiful," "cripple," "spastic," "retarded," or "deformed."

Remember to Distinguish Between...

...“disabilities” and “handicaps”: A “disability” applies to a person. A “handicap” describes a barrier in the environment. A disability is a functional limitation: paraplegia, blindness, and cerebral palsy are all disabilities. A disability becomes a handicap only when an external barrier prevents a person from doing something. For example, a person uses a wheelchair because of a disability; there is a handicap only when that person faces stairs with no adjoining elevators, and cannot go up or down a floor.

...“non-disabled” and “normal”: Most people, including people with disabilities, think of themselves as normal. When referring to the fact that someone is not disabled, use “non-disabled.”

IN SHORT

Instead Of

the handicapped

normal scientists

a wheelchair-bound chemist

a victim of cerebral palsy

Say

people with disabilities

non-disabled scientists

a chemist who uses a wheelchair

an engineer who has cerebral palsy

COURTESIES

People with disabilities are entitled to the same courtesies you extend to anyone. Rather than make assumptions about their lives and abilities, find out about them. Ask questions about the kinds of things you would ask anyone you would like to know. Share information about your own life as well. But, be courteous: if you don't generally ask people about their incomes or personal lives, don't ask people with disabilities about theirs. Don't call a person by his or her first name unless you are doing the same with everyone present.

Consider the following suggestions:

- ☑ Always talk to a person with a disability directly, even if an interpreter or attendant is present.
- ☑ Ask before you help. If someone accepts your offer, be sure to listen for any directions he or she may give you.
- ☑ Relax. Don't be embarrassed to use conventional expressions that may seem to relate to a person's disability, such as “I see what you mean” or “have to run along.”
- ☑ Don't make assumptions. Whether it be performing an experiment or pouring coffee, if you are not sure a person can or cannot do a task, simply ask.

- Since you don't usually lean on people, don't lean on wheelchairs. It can be uncomfortable. Don't pat a wheelchair user on the shoulder. What is intended as a friendly gesture often appears condescending.
- When introduced to a person with a disability in a professional or social setting, shake hands.
- When talking with a person in a wheelchair for more than a few minutes, place yourself at the wheelchair user's eye level. This will spare both of you a stiff neck.
- When talking to a person with a hearing impairment, look directly at the person and speak clearly. Place yourself facing a light source, and keep hands or food away from your mouth when speaking. Not all persons with hearing impairment can lipread. Shouting won't help, but written notes can.
- When offering to assist someone with a vision impairment, allow the person to take your arm. This will help you to guide, rather than propel or lead this person.
- When greeting someone with a vision impairment, always identify yourself and others who are with you. Speak in a normal tone of voice, indicate when you move from one place to another, and let it be known when you are excusing yourself.
- In conversation with a person whose speech is difficult to understand, give your whole, unhurried attention. Be patient rather than speak for the person. When necessary, ask short questions that require short answers. Don't pretend to understand something you have not understood. Repeat what you do understand.
- To gain the attention of someone who is deaf or hearing impaired, gently wave your hand in his or her line of vision or lightly tap him or her on the shoulder.

NOTE: THE LANGUAGE AND COURTESIES SECTION OF THIS BOOKLET ARE BASED ON THE FOLLOWING PAMPHLETS:

National Easter Seal Society: "Tips for Disability Awareness"

The Research and Training Center on Independent Living: "Guidelines for Reporting and Writing About People with Disabilities"

STEREOTYPES

A person with a disability is an individual with the same range of hopes, fears, assets and faults as a non-disabled person. A person with a disability should be treated no differently.

Yet sometimes, despite our best intentions, this simple fact is forgotten. Old myths and stereotypes come back. Here are a few examples:

Stereotype — “you’re invisible”: We avoid or ignore a student or colleague whose disability makes us feel uncomfortable.

Stereotype — “you’re helpless”: We are unusually solicitous and deferential, and sometimes volunteer help without asking if it is needed.

Stereotype — “you’re sick”: We assume a person’s disability is a disease. We assume the disability is progressive, debilitating, and the cause of other physical or intellectual deficits. People who use wheelchairs, for example, are often spoken to in a loud voice, as if they could not hear.

Stereotype — “you’re incredible”: We assume people with disabilities, especially those who have made it to college or graduate school, are courageous and exceptional. As flattering as it may be, this belief too is a myth. Saying “you’re incredible” prevents both you and the student or colleague from being realistic. Scientists and engineers with disabilities are no more or less incredible than other people who have succeeded in these demanding fields. They simply want to be treated like everyone else.

Stereotype — “you’re trying hard enough”: We expect less of people with disabilities. We praise a student with a disability who is merely passing, for example, instead of advising her that she could be doing much better with a little more work.

How to Overcome Stereotypes:

- ☒ Treat a person with a disability as you would anyone else.
- ☐ Always talk to a person directly, even if he or she has an attendant.
- ☐ Ask before you help.
- ☐ Don’t assume anything about a disability.
- ☒ Don’t lower your standards or expectations.
- ☐ Don’t compliment a person with a disability for doing something you would expect a non-disabled person to do.
- ☐ Understand how accessibility and technology are important to a person’s functioning.

II. HUMAN RESOURCES

HOW TO USE THIS SECTION

The 80 people listed in this section have agreed to serve as informal consultants on issues of science and disability. They can help you answer your questions about disabilities, accommodations, and assistive technology.

Individuals are listed alphabetically by last name in list 1. Each entry includes an address, telephone number(s), discipline and academic degree(s), most recent position, and expertise and consulting interest. In addition, each person is cross-referenced by area of expertise (list 2) and academic field (list 3). Individuals whose names are marked with an asterisk have a disability which is listed along with age of onset; they are cross-referenced by disability (list 4). The individuals with disabilities are members of the AAAS Resource Group of Scientists and Engineers with Disabilities. All those listed, whether part of the Resource Group or not, are frequent advisors to the AAAS Project on Science, Technology and Disability and its activities.

LIST 1: LIST OF CONSULTANTS

This is a list of consultants providing the following information:

Name

Address

Telephone Number

Academic Field

Degree(s)

Current Position(s)

Field(s) of Expertise

Disability; Age of Onset of Disability (Not age at present)

***ANDERSON, Pattie**

21 Oliander Street

Dickinson, TX 77539

(713) 282-3510

Computer science; Medical technology

BS, Microbiology

Senior software engineer, UNISYS

Limited Mobility Access; Education—pre-college and post-secondary;

Computer Access

Post-polio Age 2

***ANTONOFF, Stanley J.**

301 East 48th St., Apt 15E

New York, NY 10017

(212) 759-0026

Dentistry, Biology

DDS, Dentistry; BA, Biology

Director, Learning Disability Program, and Clinical Professor, Department
of Prosthodontics and Occlusion, New York University Learning
Disabilities

Legal Ramifications of Dyslexia

Neurological (cerebral) Dyslexia Age not available/applicable

***ASCH, Adrienne**

316 W. 104th St., Apt 3A

New York, NY 10025

(212) 864-5668

Social Psychology and Bioethics

PhD, Social Psych. (Cand); MS, Social Work; BA, Philosophy Associate,
Social Science and Policy, New Jersey Bioethics Commission
Braille; Speech Access for Blind/VI; Civil Rights; Social Research on Disability
Blind/Visually Impaired Birth

**AVAKIAN, Emik*

DataTran, Inc.
67 Applewood Drive
Chicopee, MA 01022
(413) 593-9574
Communication
MA, Mathematics; BS, Physics
Senior scientist
Computer Communication; Motorized wheelchairs & lifting devices
Neurological (Cerebral) Birth

**AXELSON, Peter W.*

Beneficial Designs, Inc.
5858 Empire Grade
Santa Cruz, CA 95060
(408) 429-8447
Engineering
MS, Mechanical Engineering; BS, Product Design
Director, Beneficial Designs, Inc.
Assistive Technology; Limited Mobility Access
Neurological (Spinal Cord) Age 19

**BARBER, Teddy L.*

Atmospheric Science Lab
White Sands Missile Range, NM 88002
(505) 678-2542 (505) 678-2412
Physical Chemistry and Physics
MS, Physical Chemistry; BS, General Physics
Research Physicist
Equipment Modification; Atmosphere Field Testing Adaptations; Computer
Access for Blind/VI; Coping Strategies Lab Adaptation
Blind/Visually Impaired Age 16

****BLAGLOW, James A.***

Lewis Research Center/NASA

MS 500-219

Low Thrust Propulsion Branch

Cleveland, OH 44135

(216) 433-5644

Aeronautical Engineering

MS, Physics; BS, Physics

Program Manager

Computer Access; Demographics of Disability; Limited Mobility Access;
Wheelchair Athletics

Post-polio Age 16

****BLUMENKOPF, Todd A.***

Division of Organic Chemistry

Burroughs Wellcome Co.

3030 Cornwallis Rd.

Research Triangle Park, NC 27709

(919) 248-3183 W (919) 933-3829 H

Chemistry and Pharmaceuticals

PhD, Organic Chemistry; BS, Chemistry

Chair, American Chemical Society Committee on Chemists with
Disabilities; Senior Research Scientist; Equipment Modification;
Lab Adaptation; Lab Safety; Limited Mobility Access;
Transportation/travel

Neurological (Spinal Cord) Birth

Orthopedic

****BOEN, James***

School of Public Health

University of Minnesota

Mayo Memorial Building

Box 197

Minneapolis, MN 55455

(612) 624-6669

Biostatistics, Public Health

PhD, Mathematics

Professor of Biostatistics; Associate Dean for Academic Affairs

Post-secondary Education; Limited Mobility Access; Attitudinal Barriers;
Career Planning
Quadriplegic Age 19

**BOHRMAN, Jeffrey S.*

3763 Earls Court View
Cincinnati, OH 45226
(513) 871-2112 (Voice/TDD)
Pharmacology and Physiology
PhD, Pharmacology, Physiology; MS, Pharmacology; BS, Pharmacy, Biology
Research Toxicologist
Assistive Technology for Blind/VI; Computer Access
Deaf/Hearing Impaired Birth
Blind/Visually Impaired Age 40

BOOTHROYD, Arthur

Speech and Hearing Sciences Department
City University of New York
33 W. 42nd Street
New York, NY 10036
(212) 642-2351
Speech and Hearing Sciences
PhD, Audiology; BSC, Physics
Distinguished Professor
Assistive Technology for Deaf/HI

**BRADY, Mary E.*

Center for Technology and Human Disabilities
Maryland Rehabilitation Center
2301 Argonne Drive
Baltimore, MD 21218
(301) 554-3204
Rehabilitation and Special Education Technology
MS, Educational Technology; BA, Radio, TV and Film
Director of Special Projects
Assistive Technology; Communication (Speech); Computer Access
(Individual Evaluations); Funding Sources
Spastic Dysphonia Age 19

BROYDE, Bernice

Xerox Imaging Systems/Kurzweil

185 Albany St.

Cambridge, MA 02139

(617) 864-4700

Marketing and Sales

MS, Child Dev./Educational Psych.; BS, Child Development

Vice President, Marketing and Sales

Assistive Technology for Blind/VI; Assistive Technology for Learning
Disabled

CHILDRESS, Dudley

Chicago Rehabilitation Institute

Rehabilitation Engineering Center

345 E. Superior

Chicago, IL 60611

(312) 908-6502 (312) 908-6000

Rehabilitation Engineering

PhD, Electrical Eng.; MA, Electrical Eng.; BA, Electrical Eng.

Director, Prosthetics Research Lab and Rehabilitation Engineering Program

Equipment Modification; Prosthetics

COOK, Albert

Assistive Device Center

School of Engineering and Computer Science

California State University

6000 Jay St.

Sacramento, CA 95819

(916) 278-6422

Biomedical Engineering, Electrical Engineering

PhD, Biomedical Eng.; MS, Biomedical Eng.

Professor of Biomedical Engineering; Co-Director, Assistive Device Center

Assistive Technology for Speaking/Writing; Computer Access; Learning

Disabilities; Seating Modifications

***CRANMER, T.V.**

4424 Brookhaven Ave.

Louisville, KY 40220

(502) 458-7157

Engineering

Director, Research and Development, National Federation of the Blind

Assistive Technology for Blind/VI; Computer Access for Blind/VI

Blind/Visually Impaired Age 9

***CULLERS, D. Kent**

SETI Program Office, NASA

NASA Ames Research Center

N244-11

Moffett Field, CA 94035

(415) 604-6019

Physics and Computer Science

PhD, Physics; MS, Physics; BS, Physics

Signal Detection Principle Engineer, NASA

Assistive Technology for Blind/VI; Computer Access for Blind/VI; Hi-tech

Adaptations for Blind/VI

Blind/Visually Impaired Birth

***DAVIDSON, Betty A.**

Museum of Science

Exhibits Department

Science Park

Boston, MA 02114

(617) 589-0285 Work (617) 227-3235 (TDD)

Biochemistry

PhD, Biochemistry; BS, Chemistry

Consultant/Coordinator; Exhibit Planner

Access to Museums; Hands-on Science Programs; Lab Adaptation

Orthopedic Birth

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Law
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Civil Rights; Legal Issues and Disability; Minorities and Disability
Neurological (Spinal Cord) Age 6

**DE GRAFF, Alfred H.*

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Education Administration and Higher Education
MS, Ed. Admin., Higher Ed.; SEA, Higher Ed.; BA, French, Government
President, Saratoga Access and Fitness, Inc., Saratoga Access Publications
Physical Education; Limited Mobility Access
Neurological (Spinal Cord) Age 18

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Center for MultiSensory Learning
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Berkeley, CA 94720
(415) 642-8914
Science Education for Students with Disabilities
MA, Zoology; BA, Zoology
Co-Director, Center for Multisensory Learning
Elementary/Middle School Science; Hands-on Science Programs; Teacher
Training

**DE WITT, John C.*

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Choral Conducting, Juilliard School

MS, Choral Conducting BS, Choral Conducting

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Assistive technology for Blind/VI; Assistive Technology for Deaf/HI; Policy
Analysis

Visually Impaired Age 8

**DIPIETRO, Loraine J.*

National Information Center on Deafness

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Public Education and Deafness

MAT, English, Deaf Education; BA, English

Director, National Information Center on Deafness

Assistive Technology for Deaf/HI; Deaf Education

Hearing Impaired Age 11

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U.S. Geological Survey

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Geology and Spanish

BA, Geology; BA, Spanish

Research Geologist

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Amputee Age 30

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Michigan State University
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Perceptual Alternatives Laboratory
University of Louisville
Louisville, KY 40292
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Psychology
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Professor, Dept. of Psychology
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Modification
Blind/Visually Impaired Age 2

****FRIEDEN, Lex***

TIRR Foundation
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Psychology
MA, Social Psych.; BS, Psychology
Executive Director, TIRR Foundation
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Public Policy and Disability
Neurological (Spinal Cord) Age 18

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Corporate Management and Training
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Equipment Modification for Blind/VI; Blind Role Models
Blind/Visually Impaired Age 1

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Rehabilitation Engineering Center
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PhD, Experimental Psychology; MEd, Peripatolgy (Orientation and
Mobility); BS, Speech Therapy
Associate Director, Rehabilitation Engineering Center
Assistive Technology for Blind/VI; Assistive Technology for Deaf-blind;
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Broadcasting
BA, Broadcast Journalism
Director, The Caption Center
Assistive Technology for Deaf/HI; Captioning; Descriptive Video for
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Physics
PhD, Physics; MS, Physics; BS, Physics;
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Accommodation
Deaf Age 7

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Assistance Service
Polio Age 1+

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PhD, Math
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Neurological (Spinal Cord) Age 16

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Engineering

BA, Physics

Senior Research Scientist, Division of Engineering, San Fransisco State
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Wheelchair Design; Third World Wheelchair Development; Limited
Mobility Access

Paraplegic Age 18

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NASA Ames Research Center
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Mathematics, Engineering

PhD, Electrical Eng.; MS, Mechanical Eng.; BS, Math/Aerospace Eng.;

ME, Eng. Exec. Program

Senior Staff Scientist, NASA

Advocacy; College Campus Cooperation; Computer Access; Lab Adaptation;
Transportation/travel (esp. air)

Neuromuscular (Post-polio) Age 9

****JEFFERS, James S.***

Maryland Rehabilitation Center

2301 Argonne Drive

Baltimore, MD 21218

(301) 554-3276

Education

MA, Political Science; BA, Political Science

Assistant State Superintendent in Vocational Rehabilitation

Assistive Technology

Neurological (Spinal Cord) Age 15

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West Virginia University
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Job Issues
Hemiparesis Age 49

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Oakland, CA 94612
(415) 763-4100 (V/TDD)
Public Policy, Technology and Disability
JD, Law; BA, Religious Studies
Director, Division on Technology Policy
Legal Issues and Disability Technology
Spinal Cord Injury Age 22

**KELLER, Jr., E.C.*

Department of Biology
University of West Virginia
Morgantown, WV 26506
(304) 293-5201
Biology
PhD, Genetics, Statistics; MS, Genetics, Zoology; BS, Agronomy
Professor of Biology
Education; Lab Adaption
Post-polio Age 18
Diabetes Age 42

KIRCHNER, Corinne

American Foundation for the Blind

15 West 16th Street

New York, NY 10011

(212) 629-2140

Sociology

PhD, Sociology; BA, Sociology

Director, Social Research

Demographics and Disability; Access for Blind/VI

****LANG, Harry G.***

NTID/Rochester Institute of Technology

Box 9887

One Lomb Memorial Drive

Rochester, NY 14623

(716) 475-6777

Physics and Engineering

EdD, Science Ed.; MS, Electrical Eng.; BS, Physics

Research Associate/ Dept. Ed. Research and Development; Professor of

Physics/Mathematics

Assistive Technology for Deaf/HI; Communication Skills with Deaf/HI; Lab

Adaptation; Historical Research on Deaf Scientists

Deaf/Hearing Impaired Age 15

****LEIFER, Larry***

Dept. of Mechanical Eng./Design Div.

Terman Engineering Center, Room 50

Stanford University

Stanford, CA 94305

(415) 723-4288

Rehabilitation Engineering

PhD, Biomedical Eng.; MS, Product Design; BS, Mechanical Eng.

Professor of Mechanical Engineering; CTO, Tofa Corp.; Director, Stanford

Center for Design Research

Computer Access; Hi-Tech Assistive Devices; Powered Mobility

Deaf/Hearing Impaired Age 33

LEVITT, Harry

Center for Research in Speech and Hearing Sciences

CUNY-Graduate School

33 W. 42nd Street

New York, NY 10036

(212) 642-2359

Audiology and Communication Sciences

PhD, Electrical Engineering

Distinguished Professor

Assistive Technology for Deaf/HI; Communication Skills with Deaf/HI

**LIEBER, Ellen Ruth*

Access/Abilities

P.O. Box 458

Mill Valley, CA 94942

(415) 388-3250

Education and Chemistry

MS, Biochemistry; BA, Chemistry; Lifetime Jr. College

Credential—Biochemistry

Access and Disabilities Resources Consultant

Awareness and Sensitivity Training; Museum Access; Hands-on Science

Programs; Architectural Access

Orthopedic Age 41

LIFCHEZ, Raymond

Department of Architecture

University of California, Berkeley

232 Wurster Hall

Berkeley, CA 94720

(415) 642-4942 (415) 643-5607 (FAX)

Architecture

MS, Architecture

Professor of Architecture

Limited Mobility Access; Awareness and Sensitivity Training; Independent

Living Issues

****MALZAHN, Don***

Department of Industrial Engineering
Wichita State University
Wichita, KS 67208
(316) 689-3425
Industrial Engineering
PhD, Industrial Eng. & Management; MS, Industrial Eng. & Management;
BS, Mechanical Engineering
Professor of Industrial Engineering
Post-secondary Education; Computer Access; Workplace Access/
Accommodation
Neuromuscular (Post-polio) Age 4

****MARSTERS, James C.***

2090 North Villa Heights Road
Pasadena, CA 91107
(818) 797-2216
Orthodontics and Dentistry
DDS, Dentistry; MS, Orthodontics; BS, Premedicine
Orthodontist (Retired); Consultant
Education of Deaf/HI; Orthodontics; Telecommunications for Deaf/HI
Deaf/Hearing Impaired Birth

****McCRIMON, Audrey***

Department of Rehabilitation Services
State of Illinois, Suite 8-100
100 W. Randolph
Chicago, IL 60601
(312) 814-2921 (312) 814-5000 (TDD)
Counseling and Education
MS, Counseling and Guidance (Deafness); BS, Education (Communication
Disorders)
Director, Department of Rehabilitation Services
Accessible Event Planning; Accommodation/Access in Daily Living;
Communication; Legal Issues and Disability
Hearing Impaired/Visually Impaired Age 6 months

****MENCHEL, Robert S.***

NTID/Rochester Institute of Technology
Dept. of Physics and Technical Math
One Lomb Memorial Drive
P.O. Box 9887
Rochester, NY 14623
(716) 475-6469 W (TDD) (716) 381-2809 H (V/TDD)
Business and Business Consulting
MBA, Business; BS, Physics; AAS, Mech. Technology
Assistant Professor; Adjunct Faculty, RIT Business School
Assistive Technology for Deaf/HI; Coping Strategies; Funding Sources;
Science
Education for the Deaf/HI; Workplace Accommodation
Deaf/Hearing Impaired Age 7

****MILLER, Millage Clinton, III***

Dept. of Biostatistics, Epidemiology and Systems Science
Medical University of South Carolina
171 Ashley Ave.
Charleston, SC 29425
(803) 792-2261
Biometry and Biostatistics
PhD, Biostatistics; MA, Mathematics; BS, Chemistry
Chair, Department of Biostatistics, Epidemiology, and Systems
Science Limited Mobility Access Research; Development of Wetlabs, Clinical
Trials, and Community Studies
Neurological (Spinal Cord) Age 21

**MITCHELL, James E.*

Kansas Geological Survey
1930 Constant Ave., Campus West
The University of Kansas
Lawrence, KS 66047
(913) 864-3965
Hydrology and Water Resources
PhD, WRP&E; MS, Biology; BS, Biological Science
Hydrologic Manager, Kansas Geological Survey; Independent Engineering
Consultant
Assistive Technology for Blind/VI; Civil Rights; Computer Access for
Blind/VI; Funding Sources
Blind Age 10

MUELLER, James L.

J. L. Mueller, Inc.
2502 Taylor Ave.
Alexandria, VA 22302
(703) 549-3466
Industrial Design
MA, Special Studies; BID, Industrial Design
President, J.L. Mueller, Inc.
Workplace Accomodation; Equipment Modification

**MURPHY, Eugene F.*

511 East 20th St.
New York, NY 10010
(212) 982-0503
Mechanical Engineering
PhD, Mechanical Eng.
Director, Office of Technology Transfer; Consultant and Writer
Equip.nent Modification; Lab Adaptation; Prosthetic, Orthotic, Sensory
Aids
Neurological (Spinal-polio) Age 11

**NAVY, Caryn Linda*

Raised Dot Computing, Inc.

408 S. Baldwin St.

Madison, WI 53703

(608) 257-9595 Work (608) 241-2498 Home

Mathematics and Computer Science

PhD, Mathematics

Applications Engineer/Software Designer

Assistive Technology for Blind/VI; Computer Access for Blind/VI; Special

Help for Math Students

Blind/Visually Impaired Age 10

**NEMETH, Abraham*

20764 Knob Woods Dr. #201

Southfield, MI 48076

(313) 356-5353

Mathematics and Computer Science

PhD, Mathematics; MA, Psychology; BA, Psychology

Professor of Math (retired), University of Detroit

Assistive Technology for Blind/VI; Computer Access for Blind/VI; Coping

Strategies; Transportation/travel

Blind/Visually Impaired Birth

**PACHCIARZ, Judith Ann*

12135 Emelita Street

North Hollywood, CA 91607

(818) 769-0908 (TDD only) (213) 744-3697 (Voice)

Medicine and Immunology

MD, Medicine; PhD, Microbiology, Immunology; MS, Microbiology

Pathologist/Laboratory Director

Assistive Technology for Deaf/HI; Coping Strategies

Deaf/Hearing Impaired Age 2

****PETERSEN, Roger D.***

2211 Latham St., Apt 120
Mountain View, CA 94040
(415) 969-1688

Psychology and Linguistics

BA, Psychology

Applications Engineer, TeleSensory Corporation

Computer Access for Blind/VI

Blind/Visually Impaired Birth

****PFROMMER, Margaret C.***

Technical Aid and Assistance for the Disabled Center (TAAD)

1950 West Roosevelt Rd.

Chicago, IL 60608

(312) 421-3373 (312) 908-0878

Rehabilitation and Engineering

Managing Director, TAAD

Computer Access (personal computers); Assistive Technology

Neurological (Post-polio) Age 18

****SCADDEN, Lawrence A.***

Electronic Industries Foundation

919 18th Street, NW, Suite 900

Washington, DC 20006

(202) 955-5823

Psychology, Government and Medical Sciences

PhD, Med. Sciences; MA, Psychology; BA, Government

Director, Rehabilitation Engineering Center

Assistive Technology for Blind/VI; Braille; Computer Access for Blind/VI

Blind/Visually Impaired Age 4

****SCALES, William***

University of Maryland

Disabled Student Services

Room 0216, Shoemaker Hall

College Park, MD 20742

(301) 314-7682

Post-secondary counseling

EdD, Counseling and Guidance; MS, Counseling; BS, Education

Associate Director, Counseling Center Director,
Disabled Student Services; Post-secondary Education
Orthopedic Paraplegic Age 18

**SCHATZLEIN, John E.*

10933 Johnson Ave. South
Bloomington, MN 55437
(612) 881-2129 H (612) 863-4184 W
Public Health and Psychology
MPH, Public Health; BA, Psychology
Manager, Spinal Cord Injury, Sister Kenny Rehabilitation Hospital
Attitudinal Barriers; Limited Mobility Access; Funding Sources
Neurological (Spinal Cord) Age 14

SCHREIER, Elliot M.

National Technology Center
American Foundation for the Blind
15 West 16th Street
New York, NY 10011
(212) 620-2080
Engineering and Computer Science
MS, Computer Science; BS, Electrical Eng.
Director, National Technology Center
Assistive Technology for Blind/VI; Computer Access for Blind/VI

**SHWORLES, Thomas R.*

803 Monticello Place
Evanston, IL 60201
(708) 866-8195
Counseling Psychology/Sociology
Post-grad study, Medical Sociology; MA, Counseling Psych.; BA, Sociology
Consumer Advocate Chairman, Committee on Personal Computers
and the Handicapped
Assistive Technology; Computer Access; Coping Strategies; Transportation/
Travel (esp. Air)
Neurological Quadriplegia Birth

***SKAWINSKI, William J.**

393 Madeline Ave.
Garfield, NJ 07026
(201) 478-2684
Chemistry and Accessibility
PhD, Chemistry
Research Assistant, Mechanical Engineering,
New Jersey Institute of Technology
Computer Access; Lab Adaptation
Blind/Visually Impaired Age 12

***STEARNER, S. Phyllis**

1141 Iroquois Ave., Apt. 114
Naperville, IL 60563
(708) 357-7908
Biology and Zoology
PhD, Biology
Biologist (Retired)
Advocacy; Computer Access; Limited Mobility Access; Laboratory
Adaptation
Neurological (Cerebral) Birth
Neurological (Spinal Cord) Age 45

***STONE, Howard E. "Rocky"**

Self Help for Hard of Hearing People Inc. (SHHH)
7800 Wisconsin Ave.
Bethesda, MD 20814
(301) 657-2248 (Voice) (301) 657-2249 (TDD)
BA, International Relations
Executive Director, SHHH; Member, Nat'l Advisory Council & NIDCD
subcommittee
Assistive Technology for Deaf/HI; Communication Access; General Services
for Hard of Hearing People
Deaf/Hearing Impaired Age 19

**SWANSON, Anne Barrett*

College of St. Catherine

St. Paul, MN 55105

(612) 690-6501

Chemistry and Biochemistry

PhD, Biochemistry; BS, Chemistry

Associate Academic Dean, College of St. Catherine

Education; Limited Mobility Access; Laboratory Adaptation; Laboratory
Safety

Orthopedic Birth

**TAYLOR, Paul L.*

Federal Communications Commission

Domestic Facilities

2025 M Street, NW, Room 6008

(202) 634-1860 (Voice) (202) 634-1855 (TDD)

Computer Science and Engineering

MS, Operations Research; BS, Chemical Engineering

Associate Professor

Communication Access for Deaf/HI

Deaf/Hearing Impaired Birth

**TOMBAUGH, Dorothy*

2341 Circle "X" Place

Tucson, AZ 85713

Chemistry

(602) 578-2410

DSc, Science; DHI, Humane Letter; MAT, Biology and Education; BS,
Chemistry

Pre-college Science Education; Science Education for Students with
Orthopedic or Visual Impairments

Organic Age 53

**VAN ET TEN, Robert P.*

30 Northampton St.

Rochester, NY 14606

(716) 458-5455

Engineering

MSE, Electrical Eng.; BSE, Industrial Eng.

Rehabilitation Engineer and Adaptive Living Consultant

Computer Access; Limited Mobility Access; Seating Modifications

Orthopedic Birth

VANDERHEIDEN, Gregg

TRACE Research and Development Center

University of Wisconsin at Madison

1500 Highland Ave.

Madison, WI 53705

(608) 262-6966

Engineering and Communication Disorders

PhD, Technology, Communication Rehab. and Child Development; MS,

Biomedical Eng.; BS, Electrical Eng.

Director, TRACE Research and Development Center

Associate Professor, Dept. of Industrial Engineering

Communication; Computer Access; Mass Market Products for Access

**VAUGHN, Gwenth*

2050-A Montreat Parkway

Birmingham, AL 35216

(205) 979-0859

Audiology, Speech Pathology

PhD, Communicology; MA, English; BA, Music

Prof. Emeritus, Schools of Medicine and Dentistry,

University of Alabama at Birmingham

Assistive Listening Devices; Remote Machine Assisted Treatment and

Education (REMATE), Tel-Communicology

Neurological (Spinal Cord) Age 34

**WAINAPEL, Stanley F.*

Department of Rehabilitation Medicine
St. Luke's Roosevelt Hospital Center
428 W. 59th St.
New York, NY 10019
(212) 523-6598
Medicine and Public Health
MD, Medicine; MPH, Public Health
Associate Director, Rehabilitation Medicine
Attitudinal Barriers; Assistive Technology
Blind/Visually Impaired Age 8

**WARSHAWSKY, Mike*

22 Railroad Street, Apt. 212
Andover, MA 01810-3545
(508) 474-9322
BS, Chemical Physics; MS, Engineering Design
Software Quality Assurance Engineer, Raytheon Corporation
Limited Mobility Access; Post-secondary Education
Neurological (Spinal Cord) Age 18

WEISMAN, Gerald

Rehabilitation Technology Services
Vermont Rehabilitation Engineering Center
1 South Prospect Street
Burlington, VT 05401
(802) 656-2953
BE, Mechanical Engineering; MS, Mechanical Engineering
Rehabilitation Engineering, Ergonomics

**WOBSCHALL, Rachel*

STAR Program
300 Centennial Building
658 Cedar Street
St. Paul, MN 55155
(612) 297-1554
Political Science
MA, International Management; BA, Political Science; Graduate
Work - Specialized Technology
Public Policy, Issues on Technology; Advocacy, Consumer Involvement;
General Assistive Technology; Funding Policy
Cerebral Palsy Birth

**WOHLERS, H. David*

Science Hall
Northeast Missouri State University
Kirksville, MO 63501
(816) 785-4625
Chemistry
PhD, Chemistry; BS, Chemistry; BA, Mathematics
Associate Professor
Assistive Technology for Blind/VI; Computer Access for Blind/VI;
Equip/Instrument Modification; Lab Adaptation/Access
Blind/Visually Impaired Age 3

**YOUNG, David A.*

Dept. of Preventive Medicine and Biometrics
U.C. Medical Center, B119
4200 E. 9th Ave.
Denver, CO 80262
(303) 270-5250
Biostatistics and Physiology
PhD, (Cand.); MS, Physiology; BA, Chemistry; AS, General Sciences
Doctoral Candidate/Instructor; Research Assistant
Computer Access; Lab Adaptation; Limited Mobility Access; Equipment
Modification
Neurological (Spinal Cord) Age 19

**ZOLA, Irving Kenneth*

Department of Sociology

Brandeis University

Waltham, MA 02254-9110

(617) 736-2644 (617) 736-2630

Sociology

PhD, Sociology; BA, Social Relations

Chair, Department of Sociology

Attitudinal Barriers; Disability (General); Sociology of Disability

Neuromuscular Age 16

Orthopedic Age 20

LIST 2: CONSULTANTS BY EXPERTISE

Assistive Technology for Blind/Visually Impaired

BOHRMAN, Jeffrey S.

BROYDE, Bernice

CRANMER, T.V.

CULLERS, D. Kent

DE WITT, John C.

FOULKE, Emerson

GENENSKY, Samuel M.

GERREY, William A.

GILDEN, Deborah

MITCHELL, James E.

NAVY, Caryn Linda

NEMETH, Abraham

SCADDEN, Lawrence A.

SCHREIER, Elliot M.

SKAWINSKI, William J.

WAINAPEL, Stanley F.

WOHLERS, David H.

Assistive Technology for Deaf/Hearing Impaired

BOOTHROYD, Arthur

DIPIETRO, Loraine J.

PACHCIARZ, Judith Ann

STONE, Howard E. "Rocky"

TAYLOR, Paul L.
VAUGHN, Gwennyth

Assistive Technology for People Who Cannot Speak

BRADY, Mary E.
COOK, Albert
EULENBERG, John B.
VANDERHEIDEN, Gregg

Assistive Technology, General

AXELSON, Peter W.
BRADY, Mary E.
COOK, Albert
JEFFERS, James S.
LEIFER, Larry
WAINAPEL, Stanley F.
WEISMAN, Gerald
WOBSCHALL, Rachel

Attitudinal Barriers

ASCH, Adrienne
BOEN, James
HARTMANN, Rhona
LIFCHEZ, Raymond
SCHATZLEIN, John E.
STONE, Howard E. "Rocky"
ZOLA, Irving Kenneth

Braille

ASCH, Adrienne
CULLERS, D. Kent
GERPEY, William A.
NAVY, Caryn
SCADDEN, Lawrence A.
SKAWINSKI, William J.

Captioning For Deaf/HH and Descriptive Video For Blind

GOLDBERG, Larry

Computer Access, Blind/Visually Impaired

ASCH, Adrienne

AVAKIAN, Emik

BARBER, Teddy L.

CRANMER, T.V.

CULLERS, D. Kent

NAVY, Caryn

NEMETH, Abraham

PETERSEN, Roger D.

Computer Access, General

ANDERSON, Pattie

BIAGLOW, James A.

EULENBERG, John B.

HILLAM, Bruce P.

PFROMMER, Margaret C.

SHWORLES, Thomas, R.

SKAWINSKI, William J.

VAN ET TEN, Robert P.

VANDERHEIDEN, Gregg

YOUNG, David A.

Employment Issues

GUERTIN, Ralph

JUDY, Barbara

MALZAHN, Don

MENCHEL, Robert S.

MUELLER, James L.

Laboratory Adaptation

BARBER, Teddy L.

BLUMENKOPF, Todd A.

MURPHY, Eugene F.

SKAWINSKI, William J.

STEARNER, S. Phyllis

SWANSON, Anne Barrett

WOHLERS, H. David

YOUNG, David A.

Laboratory Safety
SWANSON, Anne Barrett

Learning Disabilities
ANTONOFF, Stanley J.

Limited Mobility
ANDERSON, Pattie
BIAGLOW, James A.
CHILDRESS, Dudley
DE GRAFF, Alfred H.
HOTCHKISS, Ralf
MILLER, Millage Clinton III
SCHATZLEIN, John E.
STEARNER, S. Phyllis
SWANSON, Anne Barrett
VAN ETTEN, Robert P.
WARSHAWSKY, Mike

Museum Access
DAVIDSON, Betty A.
LIEBER, Ellen Ruth

Policy, Advocacy, and Legal Issues
ANTONOFF, Stanley J.
DAVIS, Deidre
FRIEDEN, Lex
GALVIN, Jan C.
HEUMANN, Judy
ILIFF, Kenneth W.
KAPLAN, Deborah
LIFCHEZ, Raymond
McCRIMON, Audrey
MITCHELL, James E.
SCHATZLEIN, John E.
WOBSCHALL, Rachel
ZOLA, Irving Kenneth

Post-Secondary Education

BOEN, James

BLUMENKOPF, Todd A.

HARTMAN, Rhona

MALZAHN, Don

SCALES, William

SWANSON, Anne Barrett

WARSHAWSKY, Mike

WOHLERS, H. David

Recreational Equipment

AXELSON, Peter W.

DE GRAFF, Alfred H.

Robotics

LEIFER, Larry

Science Education

DAVIDSON, Betty A.

DE LUCCHI, Linda

KELLER Jr., E.C.

LANG, Harry G.

SWANSON, Anne Barrett

TOMBAUGH, Dorothy

Statistics on Disability

BOEN, James

KIRCHNER, Corinne

MILLER, Millage Clinton, III

Telecommunication Access For Deaf/HH

KAPLAN, Deborah

MARSTERS, James C.

STONE, Howard E. "Rocky"

TAYLOR, Paul L.

VAUGHN, Gwenyth

Transportation and Travel

BLUMENKOPF, Todd A.

HEUMANN, Judith E.

ILIFF, Kenneth W.

NEMETH, Abraham

SHWORLES, Thomas R.

ZOLA, Irving Kenneth

Wheelchair Development

AXELSON, Peter W.

AVAKIAN, Emik

HOTCHKISS, Ralf

LEIFER, Larry

Worksite Modification

CHILDRESS, Dudley

DUSEL-BACON, Cynthia

FOULKE, Emerson

GALVIN, Jan

JUDY, Barbara

MALZAHN, Don

MUELLER, Jim

MURPHY, Eugene F.

VAN ET TEN, Robert P.

WEISMAN, Gerald

LIST 3: CONSULTANTS BY ACADEMIC FIELD

Administration

GALVIN, Jan C.

Architecture

LIFCHEZ, Raymond

Audiology

BOOTHROYD, Arthur

LEVITT, Harry

VAUGHN, Gwenyth

Biochemistry

DAVIDSON, Betty A.

Biology

KELLER, Jr., E.C.

MITCHELL, James E.

STEARNER, S. Phyllis

Biostatistics

BOEN, James

MILLER, Millage Clinton III

Broadcasting

GOLDBERG, Larry

Chemistry

BARBER, Teddy L.

BLUMENKOPF, Todd

SKAWINSKI, William J.

SWANSON, Anne Barrett

TOMBAUGH, Dorothy

WOHLERS, H. David

YOUNG, David A.

Communication Disorders

BROYDE, Bernice

Computer Science

ANDERSON, Pattie

Dentistry

ANTONOFF, Stanley J.

MARSTERS, James C.

Education

DeGRAFF, Alfred

DIPIETRO, Loraine J.

HARTMAN, Rhona

JEFFERS, James S.

LIEBER, Ellen Ruth
McCRIMON, Audrey
SCALES, William

Engineering

AXELSON, Peter W.
BIAGLOW, James A.
CHILDRESS, Dudley
COOK, Albert
CRANMER, T.V.
GERREY, William A.
HOTCHKISS, Ralf
ILIFF, Kenneth W.
LEIFER, Larry
MALZAHN, Don
MUFFLER, James L.
MURPHY, Eugene F.
SCHREIER, Elliot M.
TAYLOR, Paul L.
VAN ET TEN, Robert P.
VANDERHEIDEN, Gregg
WARSHAWSKY, Mike
WEISMAN, Gerald

Geology

DUSEL-BACON, Cynthia

International Relations

STONE, Howard E. "Rocky"

Law

DAVIS, Deidre A.
KAPLAN, Deborah

Linguistics

EULENBERG, John
PETERSEN, Roger D.

Mathematics

GENENSKY, Samuel M.

HILLAM, Bruce P.

NAVY, Caryn

NEMETH, Abraham

Medicine

JUDY, Barbara

PACHCIARZ, Judith Ann

WAINAPEL, Stanley F.

Music

DE WITT, John C.

Political Science

WOBSCHALL, Rachel

Pharmacology

BLUMENKOPF, Todd A.

BOHRMAN, Jeffrey S.

Physics

CULLERS, D. Kent

GUERTIN, Ralph

LANG, Harry G.

MENCHEL, Robert S.

Physiology

AVAKIAN, Emik

Psychology

ASCH, Adrienne

FOULKE, Emerson

FRIEDEN, Lex

GILDEN, Deborah

SCADDEN, Lawrence A.

SHWORLES, Thomas R.

Public Health

HEUMANN, Judith E.

SCHATZLEIN, John E.

Rehabilitation Technology

BRADY, Mary E.

Sociology

KIRCHNER, Corinne

ZOLA, Irving Kenneth

Zoology

DE LUCCHI, Linda

LIST 4: CONSULTANTS BY DISABILITY

This index provides general information about the representation of disabled persons in various disciplines and specific information about which scientists are best prepared to offer their expertise on disabling conditions. The disabilities were assigned to the categories below. Some classifications may seem arbitrary to the user, but to expand the number of categories further, while being medically accurate, would reduce the usefulness of the list.

1. AMPUTEE
2. BLIND/VISUALLY IMPAIRED
3. DEAF/HEARING IMPAIRED
4. DEAF/HEARING IMPAIRED & BLIND/VISUALLY IMPAIRED
5. NEUROLOGICAL (Cerebral)
e.g., Aphasia, Cerebral Palsy, Double Athetosis, Dyslexia, Dystonia Musculorum Deformans, Epilepsy, Learning Disability, Multiple Sclerosis, Hemiparesis, Parkinson's Disease, Stroke (CVA).
6. NEUROLOGICAL (Spinal Cord)
e.g., Paraparesis, Paraplegia, Quadriparesis, Spina Bifida, Friedrich's Ataxia, Spinal Muscular Atrophy, Guillain-Barre Syndrome.
7. NEUROMUSCULAR (Post-polio)
e.g., Mobius Syndrome, Muscular Dystrophy, Myasthenia Gravis, Myelopathy, Myositis Ossificans Progressiva.
8. ORGANIC DISORDERS
e.g., Allergies, Angina, Arteriosclerosis, Burns, Cardiac Disorders, Cystic Fibrosis, Diabetes, Leukemia, Renal Disease, Wounds.

9. ORTHOPEDIC

e.g., Ankylosis, Arthritis, Club Hands/Feet, Contracted Knees,
Osteomyelitis, Rigid Wrists, Scoliosis.

10. SPEECH DISORDERS

Amputee

DUSEL-BACON, Cynthia

Blind/Visually Impaired

ASCH, Adrienne

BARBER, Teddy L.

BOHRMAN, Jeffrey S.

CRANMER, T.V.

CULLERS, D. Kent

DE WITT, John C.

FOULKE, Emerson

GENENSKY, Samuel M.

GERREY, William A.

MITCHELL, James E.

NAVY, Caryn Linda

NEMETH, Abraham

PETERSEN, Roger D.

SCADDEN, Lawrence A.

SCHREIER, Elliot M.

SKAWINSKI, William J.

WAINAPEL, Stanley F.

WOHLERS, H. David

Deaf/Hearing Impaired

DIPIETRO, Loraine

GUERTIN, Ralph

LANG, Harry G.

LEIFER, Larry

MARSTERS, James C.

MENCHEL, Robert S.

PACHCIARZ, Judith Ann

STONE, Howard E. "Rocky"

TAYLOR, Paul L.

Deaf/Hearing Impaired & Blind/Visually Impaired

BOHRMAN, Jeff

McCRIMON, Audrey

Neurological (Cerebral)

ANTONOFF, Stanley J.

AVAKIAN, Emik

JUDY, Barbara

STEARNER, S. Phyllis

WOBSCHALL, Rachel

Neurological (Spinal)

AXELSON, Peter W.

BLUMENKOPF, Todd A.

BOEN, James

DAVIS, Deidre A.

DE GRAFF, Alfred H.

FRIEDEN, Lex

HILLAM, Bruce P.

HOTCHKISS, Ralf

JEFFERS, James S.

KAPLAN, Deborah

MILLER, Millage Clinton III

SCHATZLEIN, John E.

WARSHAWSKY, Mike

YOUNG, David A.

Neuromuscular (Post-Polio)

ANDERSON, Pattie

BIAGLOW, James A.

HEUMANN, Judith E.

ILIFF, Kenneth W.

KELLER Jr., E.C.

MALZAHN, Don

MURPHY, Eugene F.

PFROMMER, Margaret C.

VAUGHN, Gwenyth

ZOLA, Irving Kenneth

Organic Disorder

TOMBAUGH, Dorothy

Orthopedic

DAVIDSON, Betty A.

LIEBER, Ellen Ruth

SCALES, William

SWANSON, Anne Barrett

VAN ET TEN, Robert P.

Speech-Impaired

BRADY, Mary E.

ABOUT AAAS

The American Association for the Advancement of Science (AAAS) was founded in 1848 and has become the world's largest federation of scientific and engineering societies, with over 130,000 members and nearly 300 affiliate societies and academies of science. AAAS publishes *Science*, a weekly professional journal, *Science Books & Films*, a source of critical reviews of educational materials for schools and libraries, and numerous other publications.

AAAS programs and activities aim to broaden the human resource pool of scientists and engineers, shape science and technology policy, increase public understanding of science, expand scientific cooperation in global issues, defend scientific freedom, and raise professional standards.

The AAAS Directorate for Education and Human Resources Programs seeks to improve formal and informal education in mathematics, science and technology; to foster equal access to careers in these fields for women, minorities, and people with disabilities; and to enhance the public's understanding of all areas of science.

The Directorate's Project on Science, Technology and Disability strives to improve access to science and engineering education and careers for people with disabilities. Among its programs are the Project on Access to Engineering, the *Resource Directory of Scientists and Engineers with Disabilities*, and support for out-of-school activities for young people with disabilities.