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June 22-24, 1985--Speech before the Easter Seal Society--North American Conference, Memphis, TN

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RESNA '85

June 24-28, 1985

The Peabody

Memphis offers an exciting blend of the old and the new. Founded in 1819 and named by Andrew Jackson for Memphis, Egypt, it's the birthplace of the Memphis Blues, as well as such corporate success stories as the first self-service grocery store (Piggly Wiggly), Holiday Inns, Federal Express, and Schering Plough. And don't forget our most famous citizen, Elvis Presley.

The conference will be held in the beautiful legendary Peabody Hotel. Listed in the National Register of Historic Places, The Peabody first opened in Memphis in 1869 and was rebuilt on the current site in 1925. Closed in 1975, The Peabody underwent six years of extensive restoration and renovation before opening, again and forever, in the fall of 1981. As it has for over a century, The Peabody again sets the standards of excellence and serves as the epitome of hospitality for an entire region.



Transportation

RESNA has arranged with Delta Airlines to offer a minimum discount of 30% off full fare cost on travel to the meeting. The discount is applicable for any flight on Delta's domestic system.

To qualify...fly roundtrip on Delta Airlines. Our travel coordinator also handles reservations from cities Delta does not serve, and will quote the lowest fares and most convenient flights on airlines that do provide service from your city. Travel on the discount is good anytime between June 20-29, 1985.

To reserve...call Association Travel, Inc (ATI) toll-free at 800/621-3036 (Continental U.S.) or 312/644-6642 (Illinois only) between 9:00 a.m. and 5:00 p.m. (Central Time), Monday thru Friday. Be sure to advise ATI that you are attending the RESNA meeting.

To purchase...reservations must be made and tickets purchased not later than 10 days prior to travel. Pay by credit card, or ask to be invoiced. Tickets will be mailed to you by ATI.

****Low Fares**Lots of Seats**Few Restrictions****

RESNA Rehabilitation Engineering Society of North America

An Interdisciplinary Society for the Advancement of Rehabilitation through Technology

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RESNA '85

8th Annual Conference on
Rehabilitation Technology

Technology-A Bridge To Independence

June 24-28, 1985
The Peabody Hotel
Memphis, Tennessee

Invited and Contributed Papers
Poster Sessions
Student Design Competition
Instructional Courses
Exhibits and Product Demonstrations
*Special Interest Groups
*Audiovisual Program
*New for RESNA 1985

PRELIMINARY PROGRAM



8th Annual Conference

The 8th Annual Conference on Rehabilitation Technology is sponsored by the Rehabilitation Engineering Society of North America (RESNA) in the "ole river town" of Memphis, Tennessee. RESNA now has a membership that includes therapists, physicians, special educators, engineers, prosthetists, orthotists, manufacturers, distributors, consumers, and others involved in the development and application of rehabilitation technology.

The 1985 Conference theme **Technology—A Bridge to Independence** stresses transitions to independence and improved quality of life for persons with physical limitations. Emphasis is placed on research and development, technology transfer, clinical applications, and developments in service delivery.

Conference Committee

Papers, Posters, and Special Interest Groups
Cliff Brubaker, University of Virginia REC
Audiovisual Program
Olunwa Nwaobi, University of Tennessee RCP

Instructional Courses
A. Bennett Wilson, University of Virginia REC

Exhibits and Product Demonstrations
Elaine Trefler, University of Tennessee RCP
Nigel Shapcott, University of Tennessee RCP

Student Design Competition
Larry Sims, Product Engineering Consultant
Greg Shaw, University of Tennessee RCP

Local Arrangements
Michael Heinrich, University of Tennessee RCP

Publicity
Susan Taylor, University of Tennessee RCP
Myra Williams, University of Tennessee RCP

Conference Management
Douglas A. Hobson, Conference General Chair

Dudley S. Childress, RESNA President
Sheldon R. Simon, RESNA Treasurer
C. Gerald Warren, Meetings Committee Chair
Patricia I. Horner, RESNA Executive Director

For further information contact:

Beverly A. Wilson
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Telephone: (901) 528-6445

Susan P. Leone
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RESNA, Suite 700
1101 Connecticut Avenue, N.W.
Washington, D.C. 20036
Telephone: (202) 857-1100

Conference Features

- **Papers and Poster Sessions...**on topic areas consistent with evolving specialty activities in the field. Clinical papers (and posters) will be presented in separate serial sessions with the Papers Program.
- **The Instructional Program...**will be in two formats. Instructional Courses will be half-day, full day, or two day programs prior to the conference (June 21-23). Breakfast Seminars will be two-hour programs each morning during the conference. Full details are provided in the Instructional Course Brochure (available upon request).
- **A Major Exhibit...**both scientific and commercial exhibits feature what is being developed as well as what is new and commercially available. Meet and talk with leading researchers and knowledgeable manufacturers and distributors. Selected equipment demonstrations are also featured.
- **Student Design Competition...**five finalists chosen from submissions from both North America and overseas. The winners present and exhibit winning design projects. An excellent opportunity to meet our most talented young people.
- **Audiovisual Program...**a new opportunity for stand-alone presentations requiring extensive audiovisual and/or motion demonstration.
- **Special Interest Groups...**an exciting and significant development for the 85 conference, and for RESNA, is the Special Interest Groups. The purpose of the Special Interest Groups is to provide an organizational structure within RESNA to facilitate interchange among members with common, well defined professional interests. A further expectation is that Special Interest Groups will assume advocacy roles for the specialized areas of Rehabilitation and Technology they represent. Opportunities for organizational meetings will be provided for at least the following special interest areas:
 - Independent Living, Special Education, and Vocational Rehabilitation
 - Personal Transportation
 - Augmentative Communication
 - Prosthetics and Orthotics
 - Functional Assessment
 - Service Delivery
 - Technology Transfer
 - Sensory Aids
 - Wheelchair Mobility and Seating
 - Electrical Stimulation
 - Computer Applications
 - Rural Rehabilitation
- **Tours...**wheelchair accessible tour of Memphis' newest river front attraction - Mud Island - will be available through Cottonland Tours.

Preliminary Program At A Glance

RESNA 85--8th Annual Conference on Rehabilitation Technology

TIME	MORNING	AFTERNOON	EVENING
FRIDAY, JUNE 21	REGISTRATION AND INSTRUCTIONAL COURSE 1		
SATURDAY JUNE 22	REGISTRATION INSTRUCTIONAL COURSES 1-2-4A-4B-5-6-12-13-15	EXHIBIT SETUP STANDING COMMITTEE MEETINGS	INSTRUCTIONAL COURSE RECEPTION
SUNDAY JUNE 23	REGISTRATION INSTRUCTIONAL COURSES 3-6-7-8-9A-9B-10-11-14		STANDING COMMITTEE MEETINGS
MONDAY JUNE 24	REGISTRATION OPENING CEREMONY KEYNOTE SPEAKER-DR GOPAL PATI OFFICIAL OPENING OF EXHIBITION		MEMPHIS MIXER RECEPTION
TUESDAY JUNE 25	BREAKFAST SEMINARS 1-2-3-4-5 PAPER SESSIONS 5-6-7 POSTER SESSION 1 AUDIOVISUAL PROGRAM 1 EXHIBITS	PLENARY SESSION KEYNOTE SPEAKER-DR FRANK BOWE PAPER SESSIONS 1-2-3-4 SPECIAL INTEREST GROUPS 1-5-9-11 PAPER SESSIONS 8-9-10-11 AUDIOVISUAL PROGRAM 2 SPECIAL INTEREST GROUPS 2-4-8-12 EXHIBITS OPEN TO THE PUBLIC	SPECIAL INTEREST GROUPS 3-6-7-10
WEDNESDAY JUNE 26	BREAKFAST SEMINARS 6-7-8-9-10 PAPER SESSIONS 12-13-14 AUDIOVISUAL PROGRAM 3 EXHIBITS OPEN TO THE PUBLIC	AWARDS LUNCHEON-E&J LECTURER-DR W BERENBERG SPECIAL INTEREST GROUPS 1-5-9-11 SPECIAL INTEREST GROUPS 2-4-8-12 BOARD OF DIRECTORS MEETING	SPECIAL INTEREST GROUPS 3-6-7-10 TENNESSEE TWO-STEP DANCE NITE
THURSDAY JUNE 27	BREAKFAST SEMINARS 11-12-13-14 PAPER SESSIONS 15-16 POSTER SESSION 2 AUDIOVISUAL PROGRAM 4	PAPER SESSIONS 17-18-19 AUDIOVISUAL PROGRAM 5	RESNA MEMBERSHIP MEETING AND RECEPTION
FRIDAY JUNE 28	BREAKFAST SEMINARS 15-16-17-18 PAPER SESSIONS 20-21 PLENARY CLOSING SESSION		

Technology—A Bridge to Independence

Preliminary Program

Friday, June 21

7:30-7:00 Registration

8:30- **INSTRUCTIONAL COURSE 1** Selection & Application of Microcomputers for Physically Handicapped Individuals G Vanderheiden
5:00

Saturday, June 22

7:30-6:00 Registration

8:00- **INSTRUCTIONAL COURSE 4A** Introduction to Switches & Build It Yourself Electrical Interfaces C Heckathorne, R Gordon
12:00

8:00- **INSTRUCTIONAL COURSES**

5:00 1 Selection & Application of Microcomputers G Vanderheiden
2 Seating for Children S Taylor, A Bergen
5 Driver Education for the Disabled M Young, J Schweitzer
12 Clinical Research & Evaluation O Nwaobi
13 The Reluctant Manager - Survival Skills that Really Help! E Bowen
15 Guidelines for Funding, Evaluation, & Publishing M Giannini, J Reswick, S Todd
1:00- **4B** Applying Switches for Control of Augmentative Devices C Heckathorne, R Gordon
5:00
6 Independent Living: Responding to the Issues F Dinwiddie, L Frieden, B Funk, M Mathew, A Enders, G Lauree, J Veisz

Sunday, June 23

7:30-7:00 Registration

8:00- **INSTRUCTIONAL COURSE 3** Gait Analysis: Its Clinical Application S Simon
12:00

8:00- **INSTRUCTIONAL COURSES**

5:00 6 Independent Living F Dinwiddie, et al
7 Training & Employing Disabled People in Computer Related Fields G Warren, J Burke, S Gaskin, L Scadden
8 Whistles & Bells?...or Effective CAI? Software That Works E Sloane
9 Technology & Intervention for Non-speaking Physically Handicapped Persons
9A Communicative Interaction with Non-speaking Physically Handicapped Children J Light, B Collier
9B Transitions in Technology: Introduction of Medium & High Technology into Educational Programs for Young, Multiply Handicapped Children G Karlin
10 Powered Mobility Systems & Clinical Applications of Specialized Interfacing E Snell, K Kozole

Sunday, June 23

8:00- **INSTRUCTIONAL COURSES**

5:00 11 Wheelchairs: Principles & Practice of Prescription M Ferguson-Pell, S McFarland, C Brubaker, D Bennett, D Cooper, M Ball, M Cardi

14 Designing for People with Disabilities P Axelson

Monday, June 24

7:30-6:00 Registration

9:30- **OPENING CEREMONY AND OFFICIAL OPENING OF RESNA EXHIBITION** Keynote Speaker: Gopal C Pati, PhD, Indiana University
11:00

11:00-8:00 RESNA Exhibition Open

1:00- **PLENARY SESSION** Keynote Speaker: Frank Bowe, PhD, US ATBCB
2:30

SPECIAL INTEREST GROUP ORGANIZATION C Brubaker, S McFarland

2:45- **PAPER SESSIONS**

4:30 1 Vocational & Life Activities Chair: G Warren
2 Biomechanic Kinematics Chair: M Rosen
3 Wheeled Mobility Chair: D Cannon
4 Computer & Microprocessors Chair: D Jaffe

4:30- **SPECIAL INTEREST GROUP (SIG) MEETINGS I**

5:30 SIG-1: Vocational & Life Activities
SIG-5: Functional Assessment
SIG-9: Wheeled Mobility & Seating
SIG-11: Computer Applications

6:00-8:00 "Memphis Mixer" Welcome Reception

Tuesday, June 25

7:30-6:00 Registration

8:00- **BREAKFAST SEMINARS**

10:00 1 Babbling in Electronics: Use of Low Technology with Young Children or in the Severely Profoundly Handicapped F Carlson
2 Low Vision: Services for the Partially Sighted E Murphy
3 Semantic Compaction--How to Use a Linguistic Approach (Minspeak) for Computer Communication B Baker
4 Creative Technology: Practical Applications of Technology for Independent Living G Lauree, A Enders
5 Self as Manager E Bowen

10:15- **PAPER SESSIONS**

11:30 5 Upper Limb Prosthetics Chair: A Mullenberg
6 Wheelchair Design Chair: J Cowan
7 Technology Transfer Chair: J Reswick

Tuesday, June 25

10:15- **AUDIOVISUAL PROGRAM 1**

12:30 Chair: O Nwaobi

11:30- **POSTER SESSION 1** Cochairs: M LeBlanc, D Jaffe, H Peckham, J Leslie, M Milner
12:30

1:30- **PAPER SESSIONS**

4:30 8 Electrical Stimulation Chair: H Peckham
9 Augmentative Communication Chair: M Milner
10 Service Delivery Chair: J Leslie
11 Functional Assessment Cochairs: B Patterson, G Kondraske
4:30- **AUDIOVISUAL PROGRAM 2**
5:30 Chair: O Nwaobi
4:30- **SPECIAL INTEREST GROUP (SIG) MEETINGS II**
5:30 SIG-2: Personal Transportation
SIG-4: Prosthetics & Orthotics
SIG-8: Sensory Aids
SIG-12: Rural Rehabilitation
6:00- **SPECIAL INTEREST GROUP (SIG) MEETINGS III**
7:00 SIG-3: Augmentative & Alternative Communication
SIG-6: Service Delivery
SIG-7: Technology Transfer
SIG-10: Electrical Stimulation

Wednesday, June 26

7:30-6:00 Registration

8:00- **BREAKFAST SEMINARS**

10:00 6 Assessing Physically Impaired Students for Computer Use E Finkley, L Boysen
7 Equipment for Children--Implications for Design K Paulsson
8 Computerized Prescription of Wheelchair Cushions M Ferguson-Pell
9 Information Sources & Systems in Rehabilitation Engineering J Bernett, A Enders, M Hall, M Nickelsburg
10 Delegation E Bowen

10:15- **PAPER SESSIONS**

11:30 12 Rural Rehabilitation Chair: D Mathsen
13 Sensory Aids Chair: L Scadden
14 Lower Limb Orthotics & Prosthetics Chair: M LeBlanc

10:15- **AUDIOVISUAL PROGRAM 3**

12:00 Chair: O Nwaobi

12:00- **Awards Luncheon**

2:30 E&J Distinguished Lecture: W Berenburg, MD

2:30- **SPECIAL INTEREST GROUP (SIG) MEETINGS**

4:00 Second Session: SIGS 1, 5, 9, 11
4:00- **SPECIAL INTEREST GROUP (SIG) MEETINGS**
5:30 Second Session: SIGS 2, 4, 8, 12
5:30- **SPECIAL INTEREST GROUP (SIG) MEETINGS**
7:00 Second Session: SIGS 3, 6, 7, 10

Wednesday, June 26
8:30-12:30 "Tennessee Two-Step" Dance Nite
Music by the "Wampus Cats"

Thursday, June 27
7:30-6:00 Registration
8:00-10:00 **BREAKFAST SEMINARS**
11 Who's on First? What's on Second?
E Sloane
12 Overview of Speech Synthesis Techniques & Devices R Foulds
13 Aging & Technology: Too Many Myths, Too Few Resources M Klass, S Klass
14 Change--Ways to View It & Ways to Use It E Bowen
8:30-11:30 **PAPER SESSIONS**
15 Electrical Stimulation
Chair: H Peckham
16 Vocational & Life Activities
Chair: G Warren
10:15-12:30 **AUDIOVISUAL PROGRAM 4**
Chair: O Nwaobi
11:30-12:30 **POSTER SESSION 2**
Co-chairs: N Mulholland, P Axelsson
1:30-4:30 **PAPER SESSIONS**
17 Control Interfaces/Microprocessor Systems Chair: D Jaffe
18 Biomechanics Kinematics
Chair: M Donath
19 Alternative Communication
Chair: M Milner
4:30-5:30 **AUDIOVISUAL PROGRAM 5**
Chair: O Nwaobi
6:00-7:30 RESNA Membership Meeting & Reception

Friday, June 28
8:00-10:00 **BREAKFAST SEMINARS**
15 Overview: Role of Microcomputers in Evaluation of Motor Skills to Use Technical Aids M Baker
16 Planning a Design/Development Project P Axelsson
17 Access is One Thing...\$\$\$ is Something Else E Sloane
18 The Management Process--Things Which Impact Upon it E Bowen
10:00-11:30 **PAPER SESSIONS**
20 Wheelchair Seating
Chair: M Ferguson-Pell
21 Microprocessor Systems
Chair: D Jaffe
11:30-12:30 **PLENARY CLOSING SESSION**
Chair: D Hobson

RESNA '85 ■ 8th Annual Conference on Rehabilitation Technology
June 24-28, 1985 ■ Peabody Hotel ■ Memphis, Tennessee

REGISTRATION FEES

	BEFORE JUNE 7	AFTER JUNE 7
RESNA MEMBER -- INCL PROCEEDINGS/SOCIALS	☐ \$105	☐ \$130
NONMEMBER ¹ -- INCL PROCEEDINGS/SOCIALS	☐ \$145	☐ \$170
STUDENT ² -- INCL PROCEEDINGS/SOCIALS	☐ \$ 50	☐ \$ 60
UNSPONSORED CONSUMER ³ -- INCL PROCEEDINGS/SOCIALS	☐ \$ 50	☐ \$ 60
ANY ONE DAY -- INCL PROCEEDINGS/NO SOCIALS	☐ \$ 60	☐ \$ 70

¹RESNA membership is available at a discount for NEW members joining for the first time. Send membership application with nonmember fee and save \$10 on 1985 dues (offered until the close of the meeting). ²Full-time students, ID required at registration.

³Applies only to consumers that do not have sponsorship from sources such as an agency or employer.

BREAKFAST SEMINARS -- JUNE 25 - 28

	MEMBER	NONMEMBER
☐ TU-1 ☐ TU-2 ☐ TU-3 ☐ TU-4 ☐ TU-5 ☐ WE-6 ☐ WE-7		
☐ WE-8 ☐ WE-9 ☐ WE-10 ☐ TH-11 ☐ TH-12 ☐ TH-13 ☐ TH-14	☐ \$ 15	☐ \$ 20
☐ FR-15 ☐ FR-16 ☐ FR-17 ☐ FR-18		

INSTRUCTIONAL COURSES -- JUNE 21 - 23

	MEMBER	NONMEMBER
☐ 1. MICROCOMPUTERS	☐ \$140	☐ \$170
☐ 2. SEATING ☐ 5. DRIVER EDUCATION ¹)		
☐ 7. TRAINING ☐ 8. WHISTLES & BELLS)		
☐ 10. POWERED MOBILITY ☐ 11. WHEELCHAIRS)	☐ \$ 70	☐ \$ 90
☐ 13. RELUCTANT MANAGER)		
☐ 9. TRANSITIONS IN TECHNOLOGY ²	☐ \$ 80	☐ \$100
☐ 3. GAIT ANALYSIS ☐ 6. INDEPENDENT LIVING ³)		
☐ 12. CLINICAL RESEARCH ☐ 14. DESIGNING)	☐ \$ 50	☐ \$ 70
☐ 15. VA PROPOSALS)		
☐ 4A. INTRODUCTION TO SWITCHES	☐ \$ 60	☐ \$ 80
☐ 4B. APPLYING SWITCHES	☐ \$ 40	☐ \$ 50

¹Members of RESNA and ADED ²Members of RESNA and ISAAC ³Members of RESNA, NCILP, and SCIL

WRITTEN CANCELLATIONS BEFORE JUNE 7 ARE SUBJECT TO \$20 FEE.

All participants, including speakers and session chairs, must pay fees.

Please make checks payable in U.S. Funds to RESNA and return with this form.

NO REFUNDS AFTER JUNE 7, 1985.

TOTAL REGISTRATION FEES	\$ _____
TOTAL BREAKFAST SEMINARS	\$ _____
TOTAL INSTRUCTIONAL COURSES	\$ _____
TOTAL ENCLOSED	\$ _____

I WILL NEED: ☐ WHEELCHAIR ACCESSIBLE ROOM ☐ WHEELCHAIR AIRPORT SHUTTLE

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PLEASE SEND INFORMATION: ☐ INSTRUCTIONAL COURSES/SEMINARS ☐ RESNA MEMBERSHIP ☐ MUD ISLAND TOUR

☐ HOTEL RESERVATION FORM

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*Audiovisual Program
*New for RESNA 1985

2nd Call for Participation



RESNA

8th Annual Conference

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REQUEST FOR INFORMATION

RESNA 8th Annual Conference

on Rehabilitation Technology

PLEASE SEND

- ☐ AUTHOR KIT
- ☐ EXHIBITOR INFORMATION
- ☐ PRELIMINARY PROGRAM/REGISTRATION
- ☐ STUDENT DESIGN COMPETITION
- ☐ INSTRUCTIONAL COURSES/SEMINARS
- ☐ MEMBERSHIP INFORMATION
- ☐ HOTEL RESERVATION FORM

NAME _____
LAST FIRST INITIAL

DEGREE _____
TITLE MD-PHD-OT-PT-RN-MR-MS

ORGANIZATION _____
AFFILIATION _____

CITY _____

STATE/ZIP _____

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RESNA, SUITE 700
1101 CONNECTICUT AVENUE, N.W.
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The Peabody

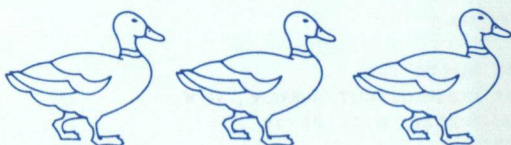
Memphis offers an exciting blend of the old and the new. Founded in 1819 and named by Andrew Jackson for Memphis, Egypt, it's the birthplace of the Memphis Blues, as well as such corporate success stories as the first self-service grocery store (Piggly Wiggly), Holiday Inns, Federal Express, and Schering Plough. And don't forget our most famous citizen, Elvis Presley.

The conference will be held in the beautiful legendary Peabody Hotel. Listed in the National Register of Historic Places, The Peabody first opened in Memphis in 1869 and was rebuilt on the current site in 1925. Closed in 1975, The Peabody underwent six years of extensive restoration and renovation before opening, again and forever, in the fall of 1981.

The unique symbol of The Peabody for over 50 years, world-famous ducks again march daily across a red carpet to and from the classic Lobby Fountain.

As it has for over a century, The Peabody again sets the standards of excellence and serves as the epitome of hospitality for an entire region.

Grandeur still, the legend of The Peabody continues. Be part of it.



Technology—A Bridge to Independence

Papers are invited from allied health professionals, engineers, physicians, industry, consumers, and others on the research, development, and application of rehabilitation technology. Submissions are encouraged on the following topics:

- Independent Living
- Transportation
- Communication
- Prosthetics and Orthotics
- Biomechanics and Kinematics
- Functional Assessment
- Service Delivery
- Recreational Equipment
- Vocational Placement
- Sensory Aids
- Wheeled Mobility and Specialized Seating
- Control Interfaces
- Electrical Stimulation
- Biofeedback and Therapeutic Equipment
- Computers and Microprocessor Systems
- Special Education Applications
- Rural Rehabilitation

Papers will be accepted for both traditional and poster presentations. Presentations which will be enhanced through demonstration and more informal exchange are encouraged to opt for the poster presentation. All accepted papers are published as a *Proceedings* and distributed at the conference.

An Audiovisual program will be a new feature for RESNA '85. Presentations in 3/4" BETA and VHS tape cassette, 35mm sound/slide, and 8mm and 16mm motion films with sound track will be accepted. Stand-alone presentations will be scheduled as a regular part of the conference. Abstracts on each audiovisual program plus availability of source information will be published in the *Proceedings*.

Information for the preparation and submission of both Scientific and Clinical manuscripts and Audiovisual presentations is provided in the Author Kit which is available by returning the enclosed Request for Information Form.

Deadlines: Papers - January 21, 1985
 Audiovisuals - April 15, 1985
 Student Design Projects - April 1, 1985

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- **Instructional Courses.** . .will be offered in two formats. Instructional Courses will be half day, full day, or two day programs offered prior to the conference (June 21-22). Topics:

- Selection & Application of Microcomputers for Individuals with Physical Disabilities
- Gait Analysis: Its Clinical Applications
- A. Introduction to Switches and Build It Yourself Interfaces
- B. Applying Switches for Control of Augmentative Devices
- Designing for People with Disabilities
- Personal Licensed Vehicles: An Overview to Program Development, Client Assessment and Vehicle Adaptation
- Transitions in Augmentative Communication Strategies and Technologies
- Clinical Research and Evaluation
- Whistles & Bells?--Or Effective Computer Assisted Instruction (CAI)? Software That Works: How to Evaluate It; Where to Find It
- Seating for Children: Current Concepts and Technologies
- Applications of Microcomputers in the Workplace
- Trends in Independent Living
- Wheelchair Prescription
- Specialized Interfaces for Powered Mobility
- Preparing Proposals for Peer Review in the U.S. Veterans Administration

Instructional Seminars will be two hour programs offered each morning during the conference. Topics will be very specific in nature and include:

- Speech Synthesis
- Standing Aids
- Low Vision Technology
- Wheelchair Cushion Prescription
- Funding for Technology
- Implementing Technical Aids

Full details are provided in the Instructional Course Brochure.

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June 21-28, 1985
Memphis, Tennessee

Technology— A Bridge To Independence

INSTRUCTIONAL COURSE PROGRAM

- **Instructional Courses**
- **Breakfast Seminars***
- **Career Development Courses***

* New for RESNA 1985

Sponsored by the

RESNA

**Rehabilitation
Engineering Society
of North America**

**An Interdisciplinary Society for the
Advancement of Rehabilitation through Technology**

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INSTRUCTIONAL COURSES

RESNA '85

8th Annual Conference

The 8th Annual Conference on Rehabilitation Technology is sponsored by the Rehabilitation Engineering Society of North America (RESNA) in the "ole river town" of Memphis, Tennessee. RESNA now has a membership that includes therapists, physicians, special educators, engineers, prosthetists, orthotists, manufacturers, distributors, consumers, and others involved in the development and application of rehabilitation technology.

The 1985 Conference theme **Technology — A Bridge to Independence** stresses transitions to independence and improved quality of life for persons with physical limitations. Emphasis is placed on research and development, technology transfer, clinical applications, and developments in service delivery. Conference activities are:

- Invited and Contributed Papers
- Poster Sessions
- Student Design Competition
- Instructional Courses
- Exhibits and Product Demonstrations
- Special Interest Groups*
- Audiovisual Program*
- *New for RESNA 1985

The purpose of RESNA is to contribute to the public welfare through scientific, literary, and educational activities by supporting development, dissemination and utilization of knowledge of rehabilitation technology.

Join RESNA and participate in this important work; serve on one of the committees or special interest groups that are preparing the groundwork for concerted action; share your knowledge at the RESNA annual conference; contribute news, opinions, review articles, or just a letter to the editor of the RESNA Newsletter.

RESNA 85 —

INSTRUCTIONAL COURSE PROGRAM

Co-Chair: Elaine Trefler, OTR, MEd
University of Tennessee
A. Bennett Wilson, BSME
University of Virginia

A. Instructional Courses (Pre-conference) June 21-23, 1985

The instructional courses are being held the weekend prior to the conference. The pre-conference courses will provide an opportunity for formal educational experiences on a wide range of clinical topics related to the assessment and provision of rehabilitation technology. Leading experts have been invited to serve as faculty to present current information supplemented by written course materials. C.E.U.'s will be available for most courses.

Continued on page 15

Continued from page 2

B. Breakfast Seminars (8:00am-10:00am) June 25-28, 1985

Breakfast seminars are scheduled to be held daily (8:00am-10:00am), Tuesday through Friday of the conference week. These seminars will provide an informal learning experience on specific topics. The primary focus will be on the practical application of rehabilitation technology in vocational, special education, and rehabilitation environments.

C. Career Development Courses

Career development sessions are scheduled within the pre-conference courses and breakfast seminars. They are intended to provide opportunities for clinicians, administrators, researchers, and consumers to acquire or develop new career skills. Examples are: computer literacy, resources management, equipment design methodology, and basic electronics. In addition, several sessions will provide opportunities to acquire information on current developments in the Independent Living Movement.

— REGISTER NOW! —

Registration/Fees

Registration for the Instructional Course Program and the Breakfast Seminars can be completed in conjunction with, or independent of, the general conference registration. Pre-registration for the Instructional Program is recommended since enrollment is limited.

A limited number of reduced rates will be available for persons who are disabled or full time students and require financial assistance. A letter requesting reduced rates should be sent to: Elaine Trefler, OTR, c/o RESNA, Suite 700, 1101 Connecticut Ave., N.W., Washington, D.C. 20036.

Refunds will be given only for Instructional Course registration, if received in writing prior to June 7, 1985. A \$20.00 administrative fee will be assessed on all refunds.

Breakfast Seminar fees will be:

Members — \$15.00 Nonmembers — \$20.00

Transportation

Special transportation arrangements to and from the airport will be available for disabled participants. Requests for transportation assistance should be indicated on the attached Registration Form.

Hotel Accommodations

Instructional Courses and Breakfast Seminars will be held at the Peabody Hotel. Hotel reservations should be made as soon as possible. Registrations received after May 23, 1985 will be accepted on a space available basis. Participants with special room requirements should make their needs known early since there are a limited number of specially equipped rooms.

COURSES-AT-A-GLANCE

Fri. AM	Fri. PM	Sat. AM	Sat. PM	Sun. AM	Sun. PM
1	1	1	1	3	
		2	2	6	6
		4A	4B	7	7
		5	5	8	8
			6	9	9
		12	12	10	10
		13	13	11	11
		15	15	14	14

Instructional Course Fees

June 21-23, 1985

1. Microcomputers: 2 days (Fri-Sat)
2. Seating for Children: 1 day (Sat)
3. Gait Analysis: 1/2 day (Sun AM)
- 4A. Introduction to Switches: 1/2 day (Sat AM)
- 4B. Applying Switches: 1/2 day (Sat PM)
5. Driver Education for the Disabled: 1 day (Sat)
6. Independent Living: 1 1/2 days (Sat PM-Sun)
7. Training/Employing Disabled in Computer Fields: 1 day (Sun)
8. Whistles & Bells?: 1 day (Sun)
9. Transitions in Technology & Intervention for Non-Speaking Physically Handicapped Persons: 1 day (Sun)
10. Powered Mobility Systems: 1 day (Sun)
11. Wheelchairs: 1 day (Sun)
12. Clinical Research and Evaluation: 1 day (Sat)
13. The Reluctant Manager: 1 day (Sun)
14. Designing for People with Disabilities: 1 day (Sat)
15. Proposals for Peer Review—US Veterans Admin: 1 day (Sat)

1 Members of RESNA and/or ADED
2 Members of RESNA, NCILP or SCIL
3 Members of RESNA and/or ISAAC

Total Instructional Course Fees \$

+ Total Seminar Fees \$

= Total Enclosed \$

No refunds after June 1, 1985

Breakfast Seminar Fees

June 25-28, 1985 (8:00am-10:00am)

Member—\$15.00 Nonmember—\$20.00

- | | |
|---|---|
| ☐ TU-1. Babbling in Electronics | ☐ WE-8. Computerized Prescription of Wheelchair Cushions |
| ☐ TU-2. Low Vision | ☐ WE-9. Information Sources and Systems |
| ☐ TU-3. Semantic Compaction (Minspeak) | ☐ WE-10. Delegation |
| ☐ TU-4. Creative Technology | ☐ TH-11. Who's on First? What's on Second? |
| ☐ TU-5. Self as Manager | ☐ TH-12. Overview of Speech Synthesis |
| ☐ WE-6. Assessing for Computer Use | ☐ TH-13. Aging and Technology |
| ☐ WE-7. Equipment for Children | ☐ TH-14. Change—Ways to View It and Ways to Use It |
| ☐ FR-15. Overview: The Role of Microcomputers | ☐ FR-16. Planning a Design/Development Project |
| ☐ FR-17. Access is one thing... \$\$\$ is something else | ☐ FR-18. The Management Process |

INSTRUCTIONAL COURSES

1 Selection and Application of Microcomputers for Physically Handicapped Individuals (Career Development)

Friday and Saturday, June 21-22, 1985 8:30am-5:00pm

This course is designed to provide participants with specific practical information on the potential and application of microcomputers for individuals experiencing moderate to severe disabilities. A "Poets Introduction to Computers" on the first day provides a unique introduction to computers and programming that results in even the least technically oriented ("afraid to touch the keyboard") participants being able to write simple programs (that really run) on the Apple II computer. The workshop provides participants with "hands on" experience and information that can be applied immediately, as well as resource information which may be consulted for further reference on specific topic areas.

Materials will include a copy of the software registry, hardware overview and interfacing options compiled by the TRACE Center.

The program is designed for computer novices as well as computer programmers.

Course Organizer

Gregg C. Vanderheiden, PhD, Director, Trace Center, University of Wisconsin-Madison

Limit: 60 Participants

2 Seating for Children: Current Concepts and Technologies

Saturday, June 22, 1985 8:00am-5:00pm

This course will be designed to provide the participant with:

- An overview of therapeutic concepts of seating and technical approaches currently available.
- Guidelines to use the prescription process.
- Strategies for utilization of commercially available equipment for the most functional outcome.

Selected case studies will be used to illustrate the evaluation, prescription, and provision processes primarily with children who have cerebral palsy. Handouts will include two books on the topic of seating for children.

The program is designed for therapists, engineers, and technologists who have had at least basic experience in a seating program.

Course Organizers

Susan Johnson Taylor, OTR, UTREP—Memphis

Adrienne Bergen, RPT, Eqpt Specialist, MEDCO, White Plains, NY

3 Gait Analysis: Its Clinical Application

Sunday, June 23, 1985 8:00am-12:00noon

Gait analysis techniques have begun to move from research laboratories into general clinical practice. This is the result of studies which point to important clinical measurements and to the availability of reasonably priced equipment and software. This course is intended to explore the wide clinical applications of gait analysis. A review of the state of the art of data collection systems will be offered. Discussion of various measurements and clinical interpretation of data will be presented. Limitations and problems in analysis will also be included.

Ample time for questions and discussions will make this course especially useful to all disciplines in rehabilitation.

The Program is designed for rehabilitation professionals including physicians, engineers, physical therapists.

Course Organizer

Sheldon R. Simon, MD, Director, Gait Analysis Lab, Children's Hospital Medical Center, Boston, MA

4A Introduction to Switches and Build-It-Yourself Electrical Interfaces

Saturday, June 22, 1985 8:00am-12:00noon

This course will focus on a basic understanding of switches, buzzers, lights, batteries, and connectors. Participants will be introduced to electrical concepts useful in the construction of safe and effective homemade interfaces, or in the purchase and application of commercial interfaces. Hands-on experience will be a key component of the course with each participant constructing a battery-interrupter and a battery operated buzzer/light box with switch interface.

The program is designed for clinicians and others who have no prior experience with electrical fabrication.

Course Organizers

Craig W. Heckathorne, MSEE, and Ruth Gordon, OTR, Northwestern University, Chicago, IL

Limit: 20 Participants

4B Applying Switches for Control of Augmentative Devices

Saturday, June 22, 1985 1:00pm-5:00pm

There's more to a switch than being turned on. Proper application of switches is vital to efficient, consistent and safe operation of electronic devices that augment environmental control, communication, mobility, information access and play. Participants will be introduced to principles of assessment and training for switch control by children and adults, considerations in using switches to operate particular devices, techniques for modifying and mounting switches, and problems of integrating the control of multiple devices. Issues will be illustrated through case studies, and panel discussion will follow the presentations.

The program is designed for therapists, engineers, technologists, and others applying or interested in applying switch controls.

Course Organizers

Craig W. Heckathorne, MSEE, and Ruth Gordon, OTR, Northwestern University, Chicago, IL

5 Driver Education for the Disabled

Saturday, June 22, 1985 8:00am-5:00pm

The workshop jointly sponsored by RESNA and ADED will include presentations and discussions with representative professionals knowledgeable in the field of driver education for disabled persons including: therapists, driver educators, and rehabilitation engineers. At the conclusion of this workshop, participants will be able to:

- describe service delivery components of a driver education program;
- evaluate clients with varying physical disabilities for driving both in the clinic and behind the wheel;
- recognize the causes of driving behaviors and teach compensatory defensive driving techniques;
- prescribe appropriate driving aids;
- access information networks pertaining to driver education.

Course Organizers

Margaret Young, OTR, Coordinator—Driver Education, Hugh MacMillan Med Ctr, Toronto, Canada
John Schweitzer, PhD, Coord—Handicapped Svcs, Louisiana Tech REC, Shreveport, LA

6 Independent Living: Responding To The Issues (Career Development)

Saturday, June 22, 1985 1:00pm-5:00pm

Sunday, June 23, 1985 8:00am-5:00pm

This workshop will address key issues confronting Independent Living Programs from a national perspective. Presenters will address the manner in which they perceive the Independent Living Movement has responded and must respond in the future; not only for survival but for growth, as part of the interdisciplinary rehabilitation community. It is jointly sponsored by RESNA, NCILP and SCIL and its objectives are:

Name _____ Degree/Title _____

Organization _____

Address _____

City/State/Zip _____

Principal Area of Work _____

Telephone _____

Please make checks payable to RESNA and return to:

RESNA
P.O. Box 367
Ben Franklin Station
Washington, D.C. 20044

I will need: ☐ wheelchair access

☐ sign language interpreter

☐ other, please specify _____

☐ Please send RESNA membership information

☐ Please send RESNA conference information

FOR OFFICE USE ONLY

Registration No. _____

Date Received _____

☐ Mem ☐ Nonmem ☐

Courses

☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9

Seminars

☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9

REGISTRATION

15 Overview: The Role of Microcomputers in the Evaluation of Motor Skills to Use Technical Aids

The objectives of this seminar are:

- To identify strategies currently used to make decisions about the application of motor skills to use technical aids for communication, mobility and computer access.
- To identify appropriate application of microcomputers for evaluation of motor skills.
- To identify prerequisites for using microcomputers as an assessment tool.
- To demonstrate the specific approaches for using hardware and software to identify the optimum control methods and overall usefulness of a control.

Faculty: Margaret R. Barker, MSc, Rehab Engineer, Children's Hospital at Stanford

16 Planning a Design/Development Project (Career Development)

Participants will become familiar with components of a design project including need definition, problem definition, development of design alternatives, methodologies selection and budget development.

This seminar is designed for persons interested in the development of devices for people with disabilities.

Faculty: Peter Axelson, MSc, Beneficial Designs, Santa Cruz, CA

17 Access is one thing . . . \$\$\$ is something else . . .

This two-hour session will address the almighty dollar. Participants will be introduced to funding sources, i.e., federal, state, and local sources, private foundation sources, and competitive versus non-competitive grants. Common and not-so-common sources of funding information will be covered including such illustrious publications as THE WALL STREET JOURNAL, STANDARD & POOR, COMMERCE BUSINESS DAILY, and THE FEDERAL REGISTER. Your friendly local civic organization, parent-teacher association and Saturday bake sales will not be overlooked. At the end of this session, participants should have a wealth of information on funding availability for hardware and software and a better than average chance of obtaining it for your school or agency.

This seminar will be of interest to educators, engineers, social workers, rehabilitation counselors, occupational therapists, physical therapists, speech pathologists, consumers, and administrators.

Faculty: Eydie Sloane, EdD, Florida Diagnostic & Learning Resources System

18 The Management Process—Things Which Impact Upon It (Career Development)

The management process will be analyzed and the fascinating factors will be discussed in an operational sense. Participants will gain insight into the forces and realities of integrating management concepts into their work environments.

Faculty: Earle Bowen, PhD, University of Tennessee, Memphis

1. To examine areas of Independent Living Research and their importance.
2. To provide methodologies for incorporating Independent Living Research into CIL activities.
3. To update information concerning the national evaluation of Independent Living Programs.
4. To outline the role and function of the National Council on the Handicapped and its relation to the Independent Living Movement.
5. To establish resource linkages with the National Council on the Handicapped.
6. To understand the nature of future funding of Independent Living Programs.
7. To identify the major concerns of the Mott Foundation Report.
8. To identify strategies for responding to those concerns.
9. To examine the role of technology and technical staff in Independent Living Programs.
10. To develop methods of increasing availability of needed technologies and technical staff in Independent Living settings.

The program is designed for consumers, health care providers and administrators.

Course Organizer

Fred Dinwiddie, Director, Easter Seals Independent Living Center, Memphis, TN

Faculty

Lex Frieden, Director, National Council on the Handicapped
 Bob Funk, Disability Rights Education Defense Fund
 Mark Mathew, Rehab Res & Tr Prog, Wichita, KS
 Alexandra Enders, OTR, Fellow, NIDH
 Gini Lauree, Editor, Rehabilitation Gazette
 Joe Velsz, President, SCIL

7 Training and Employing Disabled People In Computer Related Fields

Sunday, June 23, 1985 8:00am-5:00pm

Upon completion of this course participants should be able to:

1. Describe the basic anatomy of microcomputers, the integrated functions of hardware and software and general capabilities of these systems.
2. Describe the state of the art and the future of microcomputer software and hardware applications in the work place.
3. Understand the modifications necessary to allow disabled users to access systems, including environmental modifications and alternative input or control methods.
4. Evaluate requirements for training, cost effective methods of implementation and criteria for purchase of equipment.

The program is designed for vocational counselors, employment specialists, physical therapists, occupational therapists, physicians, and rehabilitation technologists.

Course Organizers

C. Gerald Warren, Clinical Associate Professor, Rehab Med & Bioeng, University of Washington, Seattle, WA
 J. B. Burke, Sr Marketing Support Representative, National Accounts Division—Northwestern Region, IBM, Palo Alto, CA
 Sue Gaskin, Information Planning Specialist, Arkansas Rehabilitation Services

8 Whistles & Bells? . . . or Effective CAI? Software That Works: How To Evaluate It; Where To Find It; How To Get It; How To Use It

Sunday, June 23, 1985 8:00am-5:00pm

This one-day, hands-on workshop is designed to provide an opportunity to review and evaluate instructional software for disabled populations. Participants will be trained in the evaluation process through the use of instructional design techniques. Software will be used for Apple II/e, Commodore 64, and IBM PCjr. All special education categories will be addressed as will all curricular areas from pre-school through adult populations.

Participants will choose curricular areas and special education categories and evaluate software on the microcomputers of their choice. In addition, printouts of recommended software by the above categories will be disseminated to all participants. Publisher and price information will be included. Participants need not be computer literate to benefit from this presentation. Those who are computer literate will not be discriminated against.

The program is designed for educators, counselors, rehabilitation specialists, support personnel, consumers, and other interested individuals.

Course Organizer

Eydie Sloane, EdD, Computer Training Specialist, Florida Diagnostic and Learning Resources System

9 Transitions in Technology and Intervention for Non Speaking Physically Handicapped Persons.

Sunday, June 23, 1985 8:00am-5:00pm

International Society for Augmentative and Alternative Communication (ISAAC) and RESNA jointly sponsor this instructional program. Member tuition applies to both RESNA and/or ISAAC members.

9A Communicative Interaction with Nonspeaking Physically Handicapped Children: Research Findings and Clinical Intervention

This course will present the findings of a research project which examined the communicative interaction between nonspeaking physically handicapped children and their primary caregivers. The course will suggest a framework for assessing communicative interaction in the natural environment and in eliciting contexts within the clinical setting and will present a model for clinical intervention to facilitate interaction based upon direct service intervention and mediator training.

The program is designed for teachers, speech clinicians, PT or OT professionals or anyone else involved in clinical or educational augmentative communication intervention.

Course Organizers

Janice Light, MA and Barbara Collier, LCST Augmentative Communication Service, Hugh MacMillen Medical Center, Toronto, Canada

9B Transitions in Technology: Introduction of Medium and High Technology into Educational Programs for Young, Multiply Handicapped Children

This course will examine the issues and processes involved in the introduction of medium and high technology into programs for developmentally young severely physically handicapped and multiply handicapped children. It will examine the questions of why such an introduction should be made as well as the practical aspects of introducing microcomputers into such programs. The course will examine what curriculum goals can be pursued using high technology tools, what can be expected to be accomplished, and what tools (microcomputers, software, adapted peripherals) are available to facilitate such an introduction.

The program is designed for special education teachers, early childhood of the handicapped personnel, program administrators, speech clinicians, OT or PT personnel or rehab engineers working with developmentally young physically handicapped children.

Course Organizer

George Karlan, EdD, Associate Professor of Special Education, Purdue University

10 Powered Mobility Systems and the Clinical Applications of Specialized Interfacing

Sunday, June 23, 1985 8:00am-5:00pm

There will be a review of commonly used powered mobility aids and a discussion of their respective controllers and joy stick interfaces. Many times, basic applications of these joy stick interfaces are inappropriate for individuals with moderate to

Thursday, June 27, 1985 (8:00am-10:00am)

11 Who's On First? What's On Second? (Career Development)

Computer hardware specifications will be disseminated and discussed to enable participants to be sophisticated consumers. Included in the presentation will be what hardware is currently available for special populations, what is in development, when it will be available, consumer support, hot-lines, and resources. Advantages and disadvantages of each of the different microcomputers will be addressed. Participants will be encouraged to ask questions related to hardware, available software, peripheral devices, and adaptive and assistive devices. With gentle persuasion and a slight bribe, the instructor could probably be encouraged to divulge which companies are in financial difficulty, which ones will be pricing out their inventory, and other juicy tidbits of gossip and scandal.

This seminar will be of interest to educators, therapists, social workers, administrators, rehabilitation counselors, and consumers.

Faculty: Eydie Sloane, EdD, Florida Diagnostic & Learning Resources System

12 Overview of Speech Synthesis Techniques and Devices

The seminar will present the background information that will allow a clinician to understand how many of the existing synthesizers operate and how they differ in terms of quality of output. Special attention will be given to how the function and output quality affect the use of these devices in alternative communication settings.

A number of audio tape recordings or actual speech synthesizers will be available for review.

This seminar will be of interest to speech pathologists, physical therapists, occupational therapists, engineers, educators, consumers and families.

Faculty: Richard A. Foulds, PhD, REC, Tufts—New England Med Ctr, Boston, MA

13 Aging and Technology: Too Many Myths, Too Few Resources

This discussion based workshop, with an emphasis on participant interaction, will sensitize the audience to the needs of the elderly in relationship to technology in the continuum of health care.

This seminar will be of interest to engineers, occupational therapists, physical therapists, social workers, administrators, and consumers.

Faculty: Maurice D. Klass, DSW, ACSW, Director, Div of Social Work, Memphis State University, Memphis, TN
Shirley B. Klass, MSW ACSN, Gerontologist, N.E. Community Mental Hlth Ctr, Memphis, TN

14 Change—Ways to View It and Ways to Use It (Career Development)

An analysis of the implications of change within an organization, and development of strategies to successfully achieve objectives through change is the focus of this seminar.

Faculty: Earle Bowen, PhD, University of Tennessee, Memphis

6 Assessing Physically Impaired Students for Computer Use

A multidisciplinary approach to evaluating students for computer use will be presented. Elementary information on computer parts and functions, software and positioning criteria for both students and equipment will begin the program. The remaining time will be spent on protocols for assessing student needs for adaptation.

Faculty: Edythe Finkley, OTR and Lee Boysen, RPT, Communication Systems Evaluation Center, Orlando, FL

7 Equipment for Children—Physical, Social and Functional Implications for Design

Using a research project on the specific skill of standing aided by a prone board, the course will focus on the impact and functional use of equipment as a part of a child's rehabilitation process. Case studies will be presented to illustrate how design criteria were formulated for a new standing aid based on research findings.

This seminar will be of interest to physical therapists, occupational therapists, psychologists, social workers, engineers, designers, and educators.

Faculty: Karin Paulsson, Psychologist, Karolinska Institute, Stockholm, Sweden

8 Computerized Prescription of Wheelchair Cushions

This session will include discussion of principles of positioning, the mechanical and physical properties of cushioning materials, and the use of measurement in cushion prescription. Current research that may impinge upon future cushion fitting practice will be reviewed including measurement of the geometry of the buttock/cushion interface, application of expert systems, and basic research into pressure sore etiology.

This seminar will be of interest to rehabilitation professionals including occupational therapists, physical therapists, physicians and engineers.

Faculty: Martin Ferguson-Pell, PhD, Helen Hayes Rehab Center

9 Information Sources and Systems in Rehabilitation Engineering

This course will survey a variety of alternatives for acquiring technical aid information. Presentations will identify specific information sources, relate the how-to's of effective access and use, and indicate expected results. The program will focus on the following potential information areas: 1) special programs, organizations, publications, and directories, 2) computer databases, 3) special sources for custom and one-of-a-kind devices, and 4) local resources.

The seminar is directed primarily toward persons involved in rehabilitation engineering service delivery programs.

Faculty: Judy Barnett, BSc, Sr Research Scientist, REC—Southwest Research Institute, San Antonio, TX
Marion Hall, OTR—Able Data
Alexandra Enders, OTR, NIH Fellow
Marilyn Nickelsburg

10 Delegation (Career Development)

The process of delegation will be analyzed and ways to deal with the problems and pitfalls discussed. The art of accomplishing objectives through others will be a primary focus.

Faculty: Earle Bowen, PhD, University of Tennessee, Memphis

severe physical disabilities and alternative interfacing is required. The program will explore the commercial alternatives to the basic joy stick and demonstrate the application of special interfaces through case studies. There will also be a discussion on some techniques used to determine the most suitable individual-interface-wheelchair configuration. Designers of commercial and custom interfaces as well as researchers will contribute their knowledge of various potential control applications and will encourage participants to challenge the presenters with their own particular interfacing problems. Handouts will be available which describe commercial alternative interfacing systems.

The course is designed for consumers, occupational therapists, physical therapists, vocational rehabilitation counselors, clinical rehabilitation engineers, and persons providing adaptive mobility services.

Course Organizers

Ken Kozole, BSME, OTR, Eqpt Specialist, Abbey Medical, Chicago, IL
Ed Snell, CET, Coordinator Interface Program, Hugh MacMillan Medical Center, Toronto, Canada

11 Wheelchairs: Principles and Practice of Prescription

Sunday, June 23, 1985 8:00am-5:00pm

This course is directed primarily toward persons involved in prescription of wheelchairs and will cover in depth theoretical and practical concepts used in the prescription of wheelchairs. Presentations and hands-on workshop sessions will be given by clinicians, manufacturers, wheelchair athletes, and engineers that will cover such topics as methods of measurement, principles of positioning, and ergonomics of wheelchair propulsion, access to information on wheelchairs and how to use it, selection of accessories, reimbursement, and how to expedite supply. Handout materials will include a recently published handbook.

The program is designed for rehabilitation professionals including physical therapists, occupational therapists, engineers, orthotists.

Course Organizers

Martin Ferguson-Pell, PhD, Helen Hayes Rehab Ctr, and Sam McFarland, MSc, Southwest Research Institute

Faculty

Cliff Brubaker, PhD	Marty Ball, Consumer
Darryl Bennet, RPT	Mary Cardi, RPT
David Cooper, PhD	Wheelchair Manufacturer

12 Clinical Research and Evaluation (Career Development)

Saturday, June 22, 1985 8:00am-5:00pm

Participants will learn how to: 1) transform a clinical idea into a testable research question; 2) select appropriate techniques to answer the question; 3) use clinical evaluation to improve patient care. The course consists of didactic as well as practical sessions.

The program is designed for health care providers.

Course Organizer

Olunwa N. Nwaobi, PhD, UTREP, Memphis, TN

13 The Reluctant Manager — Survival Skills that Really Help!

(Career Development)

Saturday, June 22, 1985 8:00am-5:00pm

This course will provide overview and insight information into the dynamics of resources management. Each participant will gain knowledge of his own management style and methods of improving communication, decision making, and basic management skills necessary to accomplish planned results through others. The key issues related to time management, personnel

selection and evaluation, motivation, change and delegation will be discussed in an informal forum. An introduction to the LIFO concepts will also be given.

The program is designed for all reluctant managers and those soon to become one.

Course Organizer

Earle Bowen, PhD, University of Tennessee, Memphis, TN

Limit: 40 Participants

14 Designing for People with Disabilities
(Career Development)

Sunday, June 23, 1985 8:30am-5:00pm

The successful solution to any problem in which a device, system or modification will aid a person with a disability is dependent upon understanding the specific needs of the client or group of clients. This workshop shall give the participant practical tools in the form of methods, checklists, techniques, and experiences to assist people interested in improving the quality of life through design for people with disabilities. The course will benefit people who are anxious to experience new ways of looking at their work and perhaps establishing new directions for their work.

This course will be helpful to engineers, therapists, consumers with disabilities, physicians, friends of people with disabilities, technicians, families affected by disability, program administrators, and any other people interested in assisting other people with improvement of their quality of life through the enhancement of an individual's functional abilities.

Note: Certain activities will assume good hand function and coordination. People with limited hand function should bring along "a pair of good hands" to assist in implementing the design exercises.

Course Organizer

Peter W. Axelson, MSc, Beneficial Designs, Inc.

15 New Guidelines for Funding, Evaluation, and Publishing

Saturday, June 22, 1985 8:00am-5:00pm

This course is for all scientists (VA and non VA) and presents information relevant to obtaining funding for research, submission of devices for prototype evaluation, and publication and dissemination of research findings.

The current and planned Rehabilitation R&D Service programs in scientific research, evaluation, and technology transfer will be presented with special emphasis on participation by non VA scientists. New guidelines and procedures as well as the results of empirical studies on success/failure factors will be presented.

Reference Material to be Provided: Course Workbook—"Preparing Proposals for Peer Review in the Veterans Administration." Pertinent forms and instructions concerning evaluation and publication.

Faculty

Margaret Giannini, MD, Director, VA Rehab R&D Service
James Reswick, ScD, Director, VA Evaluation Unit
Seldon Todd, Editor, Journal of Rehab R&D



BREAKFAST SEMINARS

Tuesday, June 25, 1985

(8:00am-10:00am)

1 Babbling in Electronics: The Use of Low Technology with Young Children or the Severely Profoundly Handicapped

This session will cover the use of low technology for play and communication through play for young children or the severely/profoundly handicapped. It will cover practical intervention that can serve as an entry level to technology for this population to prepare them for later use of more sophisticated instrumentation.

Faculty: Faith Carlson, MA-CCC, Myer Children's Rehab Inst, University of Nebraska Med Center

2 Low Vision: Services for the Partially Sighted

A survey of causes and types of visual impairment for all age groups will show that functional impairment is variable, dependent on circumstances like glare, and difficult to predict. Mobility, reading, and other visual performance may be aided by city planning, architecture, lighting, and various forms of magnification. Prescription eyeglass lenses, handheld and stand magnifiers, telescopes, and closed circuit TV all have uses but limitations. Rehabilitation requires interdisciplinary teamwork in prescription of devices, counselling, training, and follow-up.

This course aims to provide adequate understanding of the potential of persons with various types of low vision and ability to refer effectively for specialized services.

This seminar will be of interest to consumers and health care professionals.

Faculty: Eugene F. Murphy, PhD, New York, NY
Steven Ehrnst, VA Medical Center—Birmingham
Gay Mancil, VA Medical Center—Birmingham

3 Semantic Compaction—How to use a linguistic approach (Minspeak) for computer communication

A modern linguistic coding system based on general ideas underlying human communication has been developed. The coding technique uses sequence to define context, thus exploring the human mind's ability to process semantic information. Case studies and demonstrations will be used to illustrate the Minspeak concept.

This seminar will be of interest to speech pathologists, educators, physical therapists, occupational therapists, engineers, consumers and family.

Faculty: Bruce Baker, ABAM, Consultant Linguist, Prentke-Romich and Westinghouse Corp, Middlebury, VT

4 Creative Technology: Practical Applications of Technology for Independent Living

Practical technical solutions to everyday problems will be discussed with case studies to illustrate specific technical aids use or lack of use.

Faculty: Alexandra Enders, OTR, NIH Research Fellow
Gini Laurie, Editor, Rehabilitation Gazette

5 Self as Manager (Career Development)

Participants will be provided with an opportunity to analyze their management style with an emphasis on defining their strengths. Strategies for maximizing predominant management styles will be addressed.

Faculty: Earle Bowen, PhD, University of Tennessee, Memphis

easter seal society west tennessee

Memphis

May 9, 1985

Mr. Lex Frieden, Director
National Council on Handicapped
Suite 814
800 Ind. Avenue, S.W.
Washington, D.C. 20591

Dear Lex,

Enclosed is information regarding the Rehabilitation Engineering Society of North America's (RESNA) Annual Conference. Also enclosed is a program guide to the pre-conference instructional courses and a tentative framework for the presentation schedule for the portion on Independent Living. If you have questions about the presentation you plan to make or if an adjustment must be made to the schedule PLEASE CONTACT ME IMMEDIATELY!

A Final Call for the Conference is to be available soon. I will attempt to include any changes and will provide this to you. If audio-visual or other equipment is needed I must know NOW.

If there are hand out materials associated with your presentation, please send me a sample copy of each item and indicate on each whether duplication by us is required. If at all possible please send a brief outline of your planned presentation.

I hope this is helpful and I am available to assist you further. We do want to address Independent Living Program concerns but also remember many other disciplines will be present. It is customary for a short question and answer session to be held after each session.

Thank you for your cooperation.

Sincerely,

Fred D. Dinwiddie

Fred D. Dinwiddie
Project Director

Enclosure

d1m

RECEIVED MAY 14 1985

	JUNE 22	JUNE 23
8:00 ↓ 10:00 ↓ 10:15	SCIL ANNUAL MEETING	<u>Sandy Enders</u> <u>Gini Laurie</u> INSTRUCTIONAL SESSION
10:15 ↓ 12:00 ↓ 1:00	BREAK	BREAK
1:00 ↓ 2:30 ↓ 2:40	SCIL ANNUAL MEETING	<u>Sandy Enders</u> <u>Gini Laurie</u> INSTRUCTIONAL SESSION
2:40 ↓ 5:00	LUNCH	LUNCH
	<u>Lex Frieden</u> INSTRUCTIONAL SESSION	<u>Sandy Watkins</u> INSTRUCTIONAL SESSION
	BREAK	BREAK
	<u>Bob Funk</u> INSTRUCTIONAL SESSION	<u>Jim Budde</u> INSTRUCTIONAL SESSION

Frieden

NATIONAL COUNCIL ON THE HANDICAPPED

800 Independence Avenue, S.W.
Suite 814
Washington, D.C. 20591
(202) 453-3846



February 8, 1985

Mr. Fred D. Dinwiddie
Project Director
Easter Seal Society
1177 Poplar Avenue
Memphis, TN 38105

Dear Fred:

The purpose of this letter is to confirm my intention to accept your kind invitation of speaking at the meeting of the Southeastern Coalition on Independent Living which I understand will be held in conjunction with the annual meeting of the Rehabilitation Engineering Society of North America. I will plan to be in Memphis on June 22 and 23, 1985. Please let me know as soon as possible the exact agenda and timing of your meeting. In particular, I am interested in knowing when you would like for me to be available so that I can plan my travel arrangements around my participation in your program.

Thank you for inviting me to take part in what I expect to be a very important conference. I look forward to seeing you in Memphis in June. In the meantime, if I can assist you in any way, please do not hesitate to call me.

Sincerely,

Lex Frieden
Executive Director

LF/snc

easter seal society west tennessee



December 5, 1984

Mr. Lex Frieden,
Director
National Council on Handicapped
Suite 814
800 Ind. Avenue, S.W.
Washington, D. C. 20591

Dear Lex:

Again, congratulations on your appointment to the National Council on the Handicapped. I'm writing to follow up on our telephone conversation held immediately prior to your arrival in Washington.

In our conversation we reached an agreement on your participation in pre-conference workshop to be held in connection with the Rehabilitation Engineering Society of North America's annual conference, to be held in Memphis, Tennessee in June of 1985. The conference will begin on June 24th, 1985 and we have scheduled our pre-conference workshop on the 22nd and 23rd of June, 1985. We are looking forward to the workshop, and in particular to the RESNA annual conference as an opportunity to open the eyes of Memphis and the State of Tennessee and surrounding area to the benefit of both rehabilitation and the technologies which can enhance it. The RESNA planning group has made extraordinary efforts to involve not only rehabilitation engineers, but persons from various different disciplines including vocational rehabilitation personnel and medical personnel such as occupational therapists, physical therapists, speech therapists, etc., as well as government representatives and representatives of other potential funding sources for technologies in relation to rehabilitation of persons with disabilities. A special effort is being made in connection with this conference to include persons actively involved in the independent living movement and open participation by disabled consumers. RESNA has found this to be extremely beneficial in disseminating information about available technologies and gathering input from disabled consumers as they critique and get hands-on experience with many of the items that are exhibited or discussed.

In association with this effort, the Southeastern Coalition on Independent Living will hold its annual conference in conjunction with the pre-conference workshop. It is normally the case for a regional RSA meeting to coincide with their annual meeting. We are quite hopeful

RECEIVED DEC 13 1984

that the geographic position of Memphis will involve individuals from independent living programs in other regions as well. The topic of the workshop is "Independent Living: Responding to the Issues." I am enclosing for your review a brief statement of the objectives of the workshop. At present we have solicited the participation of Mr. Bob Funk with the Disability Rights Education Defense Fund, Gini Laurie, editor of the Rehabilitation Gazette, Alexandra Enders, author of Technology and Independent Living, Joe Vitez, President of the Southeastern Coalition on Independent Living, Mr. Mark Matthews, with the Rehabilitation Research and Training Center at the University of Kansas, and yourself.

I am most hopeful that you can confirm your ability to participate in the conference workshop to present information about your organization at a most opportune time. In addition to the participation in the pre-conference workshop, I have discussed the prospect of your participating during the actual RESNA conference with Mr. Dave Hobson, and he has indicated a keen interest in your conducting one of four 2-hour breakfast meetings which will have an emphasis on independent living. We hope that you can consent to participate in this, and we have tentatively scheduled this for Thursday, June 27th, 1985. This would afford an opportunity for you to present to a truly national and in some respects, international audience.

At present, I can only offer a waiver of registration and tuition costs for the conference. We have devoted most of our resources to the purchase of materials and travel assistance to workshop participants with the least amount of resources.

I look forward to your positive response and invite you to contact Mr. Doug Hobson at (901) 528-6445 with regard to participation in the breakfast session. Thank you for your cooperation in this matter, and please accept my best wishes in your new role.

Sincerely,



Fred D. Dinwiddie,
Project Director

FDD/jrf

Enc.

INDEPENDENT LIVING: RESPONDING TO THE ISSUES

Purpose: This workshop will address key issues confronting Independent Living programs from a national perspective. Presenters will address the manner in which they perceive the Independent Living Movement has responded and must respond in the future; not only for survival but for growth, as a part of the interdisciplinary rehabilitation community.

Objectives:

1. To examine areas of Independent Living Research and their importance.
2. To provide methodologies for incorporating Independent Living research into CIL activities.
3. To update information concerning the national evaluation of Independent Living Programs.
4. To outline the role and function of The National Council on the Handicapped and its relation to the Independent Living Movement.
5. To establish resource linkages with the National Council on the Handicapped.
6. To understand the nature of future funding of Independent living programs.
7. To identify the major concerns of the Mott Foundation Report.
8. To identify strategies for responding to those concerns.
9. To examine the role of technology and technical staff Independent Living Programs.
10. To develop methods of increasing availability of needed technologies and technical staff in Independent Living settings

RESNA Engineering Society of North America

An Interdisciplinary Society for the Advancement of Rehabilitation through Technology

Suite 402 • 4405 East-West Highway • Bethesda, MD 20814

RESNA '85

8th Annual Conference on
Rehabilitation Technology

Technology-A Bridge To Independence

June 24-28, 1985
The Peabody Hotel
Memphis, Tennessee

Invited and Contributed Papers
Instructional Courses
Poster Sessions
Student Design Competition
Luncheon Seminars
Topical Discussions
Exhibits and Product
Demonstrations

Call for Participation



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8th Annual Conference

The 8th Annual Conference on Rehabilitation Technology is sponsored by the Rehabilitation Engineering Society of North America (RESNA) in the "ole river town" of Memphis, Tennessee. RESNA now has a membership that includes therapists, physicians, special educators, engineers, prosthetists, orthotists, manufacturers, distributors, consumers, and others involved in the development and application of rehabilitation technology.

The 1985 Conference theme

Technology—A Bridge to Independence stresses transitions to independence and improved quality of life for persons with physical limitations. Emphasis is placed on research and development, technology transfer, clinical applications, and developments in service delivery.

Conference Committee

Papers, Posters, and Topical Discussions

Cliff Brubaker, University of Virginia REC

Instructional Courses and Luncheon Seminars

A. Bennett Wilson, University of Virginia

Elaine Trefler, University of Tennessee REP

Exhibits and Product Demonstrations

Nigel Shapcott, University of Tennessee REP

Larry Sims, Product Engineering Consultant

Student Design Competition

Greg Shaw, University of Tennessee REP

Local Arrangements

Myra Williams, University of Tennessee REP

Michael Heinrich, University of Tennessee REP

Conference Management

Douglas A. Hobson, Conference General Chair

Dudley S. Childress, RESNA President

Sheldon R. Simon, RESNA Treasurer

C. Gerald Warren, Meetings Committee Chair

Patricia I. Horner, RESNA Executive Director

For further information contact:

Beverly Wilson
Conference Administrative Assistant
University of Tennessee - REP
682 Court Avenue
Memphis, Tennessee 38163
Telephone: (901)528-6445

RESNA, Suite 402
4405 East-West Highway
Bethesda, Maryland 20814
Telephone: (301)657-4142

REQUEST FOR INFORMATION

RESNA 8th Annual Conference

on Rehabilitation Technology

PLEASE SEND

- ☐ AUTHOR KIT
- ☐ EXHIBITOR INFORMATION
- ☐ PRELIMINARY PROGRAM/REGISTRATION
- ☐ STUDENT DESIGN COMPETITION
- ☐ INSTRUCTIONAL COURSES
(AFTER NOVEMBER 15, 1984)
- ☐ MEMBERSHIP INFORMATION
- ☐ HOTEL RESERVATION FORM

NAME _____
LAST FIRST INITIAL

DEGREE _____
TITLE MD-PHD-OT-PT-RN-MR-MS

ORGANIZATION _____
AFFILIATION _____

CITY _____

STATE/ZIP _____

TELEPHONE () _____

RETURN TO

RESNA, SUITE 402
4405 EAST-WEST HIGHWAY, BETHESDA, MD 20814
(301)657-4142

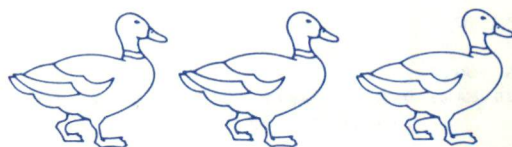
The Peabody

Listed in the National Register of Historic Places, The Peabody first opened in Memphis in 1869 and was rebuilt on the current site in 1925. Closed in 1975, The Peabody underwent six years of extensive restoration and renovation before opening, again and forever, in the fall of 1981.

The unique symbol of The Peabody for over 50 years, world-famous ducks again march daily across a red carpet to and from the classic Lobby Fountain.

As it has for over a century, The Peabody again sets the standards of excellence and serves as the epitome of hospitality for an entire region.

*Grandeur still, the legend of
The Peabody continues.
Be part of it.*



RESNA

Technology—A Bridge to Independence

Papers are invited from allied health professionals, engineers, physicians, industry, consumers, and others on the research, development, and application of rehabilitation technology. Submissions are encouraged from the following specialty areas:

- Independent Living
- Transportation
- Communication
- Prosthetics and Orthotics
- Biomechanics and Kinematics
- Functional Assessment
- Service Delivery
- Recreational Equipment
- Vocational Placement
- Sensory Aids
- Wheeled Mobility and Specialized Seating
- Control Interfaces
- Electrical Stimulation
- Biofeedback and Therapeutic Equipment
- Computers and Microprocessor Systems
- Special Education Applications

Papers will be accepted for both traditional and poster presentations. Presentations which can be enhanced through demonstration and more informal exchange are encouraged to opt for the poster presentation. All accepted papers are published as a *Proceedings* and distributed at the conference.

Information on preparation and submission of manuscripts is provided in the Author's Kit available upon submission of the enclosed Request for Information form.

Deadline for receipt
of papers is January 15, 1985.

Conference Features

- **Papers and Poster Sessions. . .**
on topic areas consistent with the evolving specialty activities in the field.
- **Instructional Courses. . .**
both preconference and conference tutorials provide rehabilitation and special education professionals and others an opportunity for training on current application techniques. The courses are given by leading experts in the field.
- **A Major Exhibit. . .**
both scientific and commercial exhibits feature what is being developed, as well as what is new and commercially available. Meet and talk with leading researchers and knowledgeable manufacturers and distributors. Selected equipment demonstrations are also featured.
- **Student Design Competition. . .**
five finalists are chosen from 50 to 70 entries from both North America and overseas. The winners present and exhibit their winning design projects. An excellent opportunity to meet our most talented young people.
- **Luncheon Seminars. . .**
offer participants an opportunity to have lunch with a leading expert in rehabilitation technology.
- **Topical Discussion Sessions. . .**
another forum for informal information exchange on subjects that are currently topical in the field.



Rollin' on the River RESNA '85

Memphis, Tennessee

You Gotta Get to Memphis in June 1985.

Memphis offers an exciting blend of the old and the new. Founded in 1819 and named by Andrew Jackson for Memphis, Egypt, it's the birthplace of the Memphis Blues, as well as such corporate success stories as the first self-service grocery store (Piggly Wiggly), Holiday Inns, Federal Express, and Schering Plough. And don't forget our most famous citizen, Elvis Presley.

Did you know that the city of Memphis recently built a \$63 million dollar tribute to the mighty Mississippi River? It is called Mud Island and includes something for everyone. A Swiss Monorail, river galleries and a museum, a five block river walk and views of magnificent sunsets while dining in one of three major restaurants, and more!

The conference will be held in the beautiful legendary Peabody Hotel. The newly renovated Peabody truly embodies gracious southern hospitality, which is but another reason you

Gotta Roll on the River in 1985.