

① Heiple NO
② Lunch Speaker yes

① of ②

MEETING REQUEST FORM

NAME/ORGANIZATION

NAME(S): Jenny Heiple / LR /
NUMBER/NAME(S) ATTENDING _____
PHONE NUMBER: Call from Jackie Brand 415-436-4243
ORGANIZATION: USA Today Reception
is CHR interested?

Jackie Brand
will
RSVP to J. Heiple
re request
reception
6/16 pr.

DATE(S) REQUESTED

DATE REQUESTED July 20 4-6 pm (open)
ALTERNATE DATE(S) _____

SUBJECT MATTER TO BE DISCUSSED

CHR ACTION

APPROVE	REGRET	PENDING FILE

Jenny will send follow-up ltr to
CHR re event acceptance (7/19/ Keynote
event speaker)

FROM : FTR

JUN 14 REC'D

2 of 2



FOUNDATION
for
TECHNOLOGY
ACCESS

**Foundation for Technology Access
FAX TRANSMISSION**

To:
Rosalyn Kelly for Carol Rasco
Assistant to the President

Date & Time: June 14, 1994
Fax No.: 202/456-2878
Page 1 **of** 3

From:
Jacquelyn Brand

Subject:
Invitation to Annual Institute

*msg for CHR:
from: Jacquelyn Brand LR
July 30 4-6
DC at
reception USA Today*

Message:

Please send this request through the proper channels to reach Ms. Carol Rasco. Thank you.
I can be reached at 415-456-4243
Jacquelyn Brand

is CHR interested?

*J Brand
will RSVP
to Jacquelyn
reception
& CHR's
next being
rule book
too
PR*

6/16

CAROL H. RASCO

ASSISTANT TO THE PRESIDENT FOR DOMESTIC POLICY

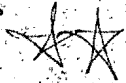
TRAVEL CHECKLIST FORM

FUNCTION/ ACTIVITY	INITIALS OF DPC STAFF PERSON	COMMENTS/ PROBLEMS
DATE(S) OF TRAVEL?	<i>July 19</i>	<i>Alliance For Tech Access</i>
DESTINATION?	<i>Speake Libertan City</i>	<i>Centre Hotel</i>
TRAVEL AUTHORIZATION FORM COMPLETED?	<i>1143 New Hampshire DC 20037</i>	
MODE OF TRAVEL? RESERVATIONS MADE? IF AIRLINE, WISH AISLE SEAT.		<i>(file given to CTR for most recent correspondence 6/23)</i>
TICKETS OBTAINED FROM TRAVEL OFFICE?		
HOTEL RESERVATIONS MADE?		<i>6/29 - letter + other documents under July 19 pr</i>
CONFIRMATION NUMBER?		
NOTE: FOAM PILLOWS NOTE: NON-SMOKING		
COMPUTER SET-UP AVAILABLE AT HOTEL? DEDICATED LINE? HOTEL FAX NUMBER?		
CAR RENTAL READY?		
RESERVATION NUMBER?		
MATERIALS FOR TRIP (MTG. FOLDERS/SPEECH MATERIALS) READY?		
CHR SCHEDULE FAXED TO WH OPERATORS, SIGNAL & STAFF?		
CAR RESERVATIONS MADE WITH WH GARAGE?		
CHR DEPARTURE: 1) TICKETS PACKED? 2) ITINERARY PACKED?		

TRAVEL SCHEDULE TO MARY-MARGARET? DATE: _____ INITIALS: _____

*CHR given need correspondence 6/22
w/file*

Roz



We need to talk
about this in
scheduling meeting

Gunny

NAME
1/5/94

~~CHK need a doc
as HRC~~

~~quest for review~~

~~CHK will try~~

November 15, 1993

Dear Carol,

This is some additional information that I am sending you concerning the Technology Resource Center at AR Easter Seals. Janet Hargett sent you faxes and packets concerning the Alliance for Technology Access and the Summer Institute, which will be held in Washington D.C. this July. We are requesting (begging) that you and Mrs. Clinton speak to this group.

I heard that you were here speaking to National Special Education Coordinators this week-end. I thought that your comments were excellent.

I hear that Hamp will soon be 20. I can't believe that our kids are growing up. Be sure and read Dave Bury's article today, it will help prepare you for many Margaret's teenage years.

Sincerely,
Jimmy Heiple

___ I'd like to become a member of the **Arkansas Technology Resource Center**. I'm enclosing a \$20.00 tax deductible donation.

Members:

- Receive a newsletter quarterly
- May attend all regular Center Workshops without a fee
- Receive a reduced loan fee on valuable equipment
- Are given priority on equipment loan
- Are helping the center to operate

Name: _____

Affiliation: _____

Address: _____

City: _____ State: _____

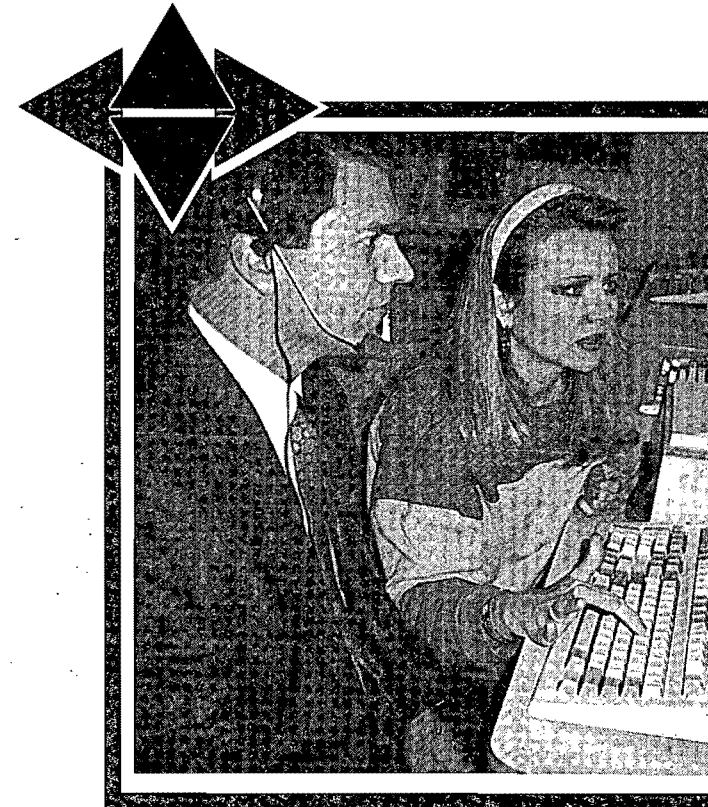
ZIP: _____

Phone: _____



ALLIANCE
— for —
TECHNOLOGY
ACCESS

Arkansas Technology Resource Center



...giving people with disabilities the power to do more through technology.



Arkansas Technology Resource Center, located at the Arkansas Easter Seal Society, is a computer and assistive device resource center available to all persons with disabilities, their families, and others who are interested in technology.

The Arkansas Technology Resource Center is a member of the Alliance for Technology Access which is a national network of 46 assistive technology centers, vendors, and researchers.

The Arkansas Technology Resource Center is a regional site for IBM's Offering for Persons with Disabilities. Two Technology Access Centers, providing special assistive technology services in the areas of augmentative and alternative communication, computer access, learning disabilities, and cognitive rehabilitation, are located in the Arkansas Technology Resource Center. These Technology Access Centers are a member of the Increasing Capabilities Access Network which is funded by the Arkansas Division of Rehabilitation Services through Public Law 100-407.

Augmentative & Alternative Communication Services, which is located at the Center, provide evaluations and treatment for individuals who are non-speaking or have unintelligible speech. This service was selected by the American Speech-Language-Hearing Association as one of eleven model sites in the United States for the provision of augmentative and alternative communication services.

Mission

The Arkansas Technology Resource Center is a resource center which assists persons with differing abilities achieving their social, educational, and vocational potential through the use of assistive technology.

The Arkansas Technology Resource Center holds paramount the right of persons with differing abilities to receive appropriate assistive technology and quality services.



Operations

The Arkansas Technology Resource Center's hours of operation are from 8:30 a.m. until 4:00 p.m. In addition to regular center hours, extended hours, known as Resource Time, are scheduled periodically to accommodate individuals who are unable to visit during regular hours of operation.

Individuals and groups who wish to visit the Center should call and schedule an appointment. User, support, and special needs groups are encouraged to schedule the Center for one of their meetings.

Services

- Provides technology evaluations in augmentative and alternative communication, computer access, and environmental controls on a fee for service basis
- Provides hands on experience with computers and software
- Provides information about assistive technology upon request
- Has a technology loan library for members
- Schedules workshops on technology topics on a regular basis
- Provides technology consultations, assistance, and training on a fee for service basis
- Provides special summer technology day camps and activities

Staff

The Arkansas Technology Resource Center is staffed by professionals with Master Degrees in education and speech-language pathology. The center conducts client and family centered evaluations in augmentative and alternative communication, computer access, and environmental controls using a team approach which may include a speech-language pathologist, computer specialist, physical or occupational therapist, and engineer.

Services

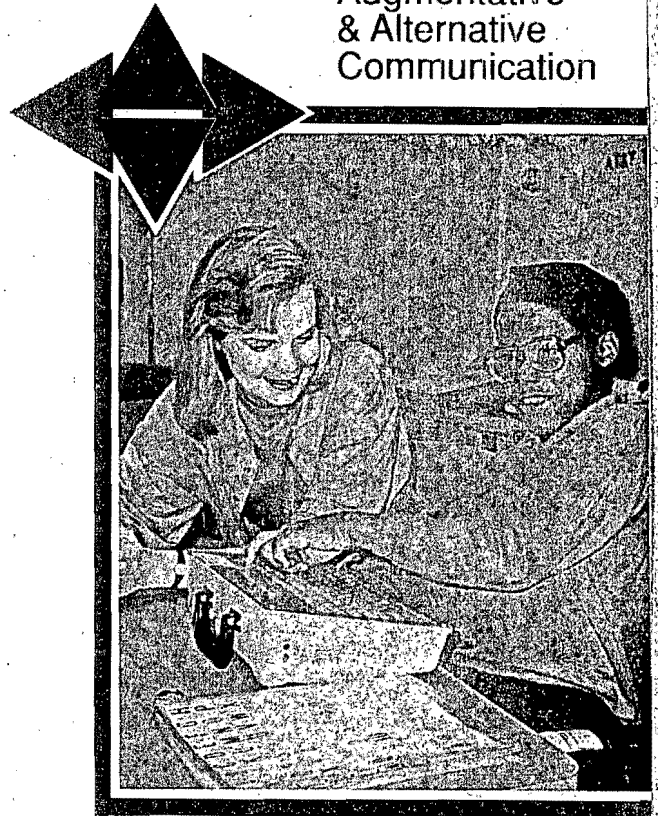
- Augmentative and alternative communication evaluations on a fee for service basis
- Training, consultations, and technical support on a fee for service basis
- Workshops and presentations on augmentative and alternative communication
- Lending library of books, periodicals, and videotapes on augmentative and alternative communication
- Hands on experience with augmentative and alternative communication devices and other assistive technology
- Information dissemination about augmentative and alternative communication upon request
- Provides payment options that include Medicare, Medicaid (EPSDT screened clients), CMS, Private Insurance, MasterCard, and VISA

For more information, contact:

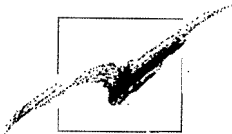
Arkansas Technology Resource Center
Arkansas Easter Seal Society
Ginny Heiple, M.Ed., Director
2801 Lee Avenue
Little Rock, AR 72205
(501) 663-8331
TDD/FAX (501) 664-1546

Arkansas Technology Resource Center

Augmentative
& Alternative
Communication



*...giving people with disabilities the
power to speak using technology.*



ALLIANCE
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ACCESS



The Arkansas Technology Resource Center located at the Arkansas Easter Seal Society is a computer and assistive device resource center available to all persons with disabilities, their families, and friends. The Arkansas Technology Resource Center is a member of the Alliance for Technology Access and provides "hands-on" experience with Apple, Macintosh, IBM computers, software, and other assistive devices.

Augmentative and Alternative

Communication Services

If an individual is nonspeaking or if his speech is so impaired that he can not be understood when he talks, he can learn to communicate using various aids that supplement or replace speech. Some of these communication aids are very simple and can be made from paper, pen, or plastic. Others are very "high tech" and involve computers and voice synthesizers. The Augmentative and Alternative Communication Team at the Arkansas Technology Resource Center evaluates the needs of the person, makes recommendations of appropriate communication aids and techniques, and trains the user, his family, and others on how to use the recommended devices.

Our Augmentative and Alternative Communication Services were recognized by the American Speech-Language-Hearing Association in 1985 as one of the top eleven Model Outreach Sites in Augmentative and Alternative Communication in the United States.

Goals

The goal is to evaluate the augmentative and alternative communication needs of people with severe speech disorders, make appropriate equipment recommendations, and provide training and technical support to the users, their families, and others.

Eligibility

Any adult or child whose communication disorder is congenital (i.e., cerebral palsy, mental retardation, etc.), acquired (i.e., head injury, stroke, etc.), or temporary (i.e., shock, trauma, surgery, etc.) and is in need of communication is eligible for services. The person must have a physician's referral.



Staff

The Augmentative and Alternative Communication Services Team is made up of professionals (speech-language pathologists, physical/occupational therapist, special educators, engineers, etc.) and others with numerous years of experience and expertise in augmentative and alternative communication. Because this is such a specialized and changing field, it is vital to have services provided by people who have practical experience with augmentative and alternative communication and who are committed to keeping up with current trends and equipment.

TECHNICALLY SPEAKING

A NEWSLETTER OF THE ARKANSAS TECHNOLOGY RESOURCE CENTER

Vol. 1, Number 2

Summer, 1991



Alliance for Technology Access Receives Gift from IBM

IBM recently loaned educational software to the Alliance for Technology Access (ATA) to support ATA's services to special education students across the country. The software, valued at \$250,000.00, was loaned to ATA at no cost.

The ATA is a non-profit organization that empowers persons with disabilities to control their own lives using technology. It operates 46 resource centers around the country.

Through the IBM loan program, the ATA received products to teach reading, language arts, math and science skills, as well as products to assist persons with hearing, vision and speech disabilities.

The Arkansas Technology Resource Center was selected as one of the ATA centers to receive this software. Some of the IBM software available for preview through this loan include the *Reading For Information Series*™, the *Reading for Meaning Series*™, *Primary Editor Plus*™, and *Math Exploration Toolkit*™. The software may be previewed by contacting the Center for an appointment.



Summer Activities

Summer of 1991 has been an exciting time for the Resource Center. During June, the center held an augmentative and alternative communication camp for nonspeaking children in grades kindergarten through third. The kids spent a fun-filled week at our imaginary "Disneyland" and participated in such activities as computer play, games, "reading" books using their communication devices, and art projects. The camp provided the children with the opportunity to interact with peers and adults using their communication devices.

Parents and their children had the opportunity to interact together with a variety of computers and software at Parent/Toddler TECH which was held once a week during the month of July. Participating families had hands-on experiences with IBM, Apple IIs, Apple IIe, and Macintosh computers, and were able to try out commercially available and public domain software.

The center also held a Computer Camp for junior high students with learning disabilities during the month of July. The "campers" spent a week learning keyboarding and word processing skills, and wrote a camp newsletter titled *Disk Copy*.



HAVE YOU HEARD?

IBM VoiceType™, a large vocabulary speech recognizer, is the newest offering in IBM's Independence Series of products. IBM VoiceType™, developed by Dragon Systems and IBM, is based on technology invented by Dragon Systems for its DragonDictate products.

IBM VoiceType™ is a powerful tool that provides an affordable "hands free" alternative to using a computer keyboard for persons with disabilities. It allows PC users to create any text by speaking instead of typing! A 7,000 word active vocabulary provides the flexibility to create complex documents by voice, and an integrated 80,000 word back-up dictionary gives the user greater capability for the rapid creation of text.

For more information, contact Dragon Systems, Inc. at (617) 965-5200.

Whisper Wolf© is an auditory scanning, voice output communication aid that is one of the first of its kind! The Whisper Wolf© is actually a fully operational, user programmable Wolf which is touchpanel-activated. It has been enhanced to include an auditory scanning function.

Activating a communication aid by scanning is an alternative for individuals who do not have sufficient motor function to use a touchpanel. In visual scanning, the vocabulary choices are presented visually, typically with lights arrayed in a matrix.

For some individuals, visual scanning is a problem: either too complex cognitively or requiring visual skills which are disabled. Some visual scanning communication aids offer an auditory scan option but the voice output "blares" the vocabulary items which can be

disruptive in most contexts.

The Whisper Wolf© has the addition of a second speaker, a "private speaker" which improves this auditory scanning technique. The selection of choices are "whispered", or spoken to the user through the private speaker which is mounted near the user's ear. When the user hears the desired choice, s/he activates the switch and the selection is re-spoken through the "public speaker"!

For more information, contact ADAMLAB at (313) 467-1415.

Access DOSS© provides extended keyboard, mouse, and sound access for IBM DOS users. It includes a number of interesting features useful to persons with disabilities, and is provided "as is" without charge.

For more information, contact IBM at 1 (800) 426-7282.

Detach Here 



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ACCESS

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Members:

- Receive a newsletter quarterly
- May attend all regular Center Workshops without a fee
- Receive a reduced loan fee on valuable equipment
- Are given priority on equipment loan
- Are helping the center to operate

NAME: _____

AFFILIATION: _____

ADDRESS: _____

CITY: _____ **STATE:** _____ **ZIP:** _____

PHONE: _____

FRIENDS OF THE CENTER

Mary Fran Adams
Jane Bauer
John Beck
Brenda Bradley
Dee Ellison
Kim Golden
Jo Magee
Susan & Robert Mauney
Kim Molinaro
Andrea Nash
Deby Wallace
United Medical, Inc.

Arkansas Technology Resource Center Staff

Ginny Heiple, M.Ed.
Director

Nancy Dunn, SLP
TAC Coordinator

Debra Fehlman, SLP
Evaluation Services

JoLynn Pickens, PT
Evaluation Services

Pamela Uhlemann
Program Assistant

For more information contact:

**Arkansas Technology
Resource Center
Arkansas Easter Seal Society
2801 Lee Avenue
Little Rock, AR 72205**

**(501) 663-8331
FAX or TDD 663-1546
Hours 8:30 - 4:00**

DISK COPY

The following is a sample of software which is currently on the market.

THINKable™ is a new cognitive rehabilitation system for adolescents and adults that uses the IBM PS/2. The system provides two distinct functions that work in tandem: a *Patient Therapy* practice tool with the latest in multi-media technology (including photo-quality pictures, animation, graphics, and life-like human voice); and *Case Management* with extensive data reporting capabilities.

THINKable™ focuses on four vital cognitive skills: visual attention, visual discrimination, visual memory, and visual-sequential memory. Treatment sessions can be customized by clinicians to ensure an appropriate level of difficulty and enhanced motivation for each patient.

THINKable™ was tested extensively at nine sites in Europe and the United States by professionals that included speech-language pathologists and neuropsychologists. Additional research is currently underway.

THINKable™ is available from Psychological Corporation. For further information call 1 (800) 228-0752 and ask for software assistance.



Interaction Games II is a software program designed to provide a natural setting for experiencing cooperative and competitive play. It allows two players to improve their single switch skills with six different games. Players can gallop horses down to the finish line in "Horse Race" or throw pies at each other in "Pie in the Eye". Other games include "Mountain Climbers", "Slap Jack", "Ice Breaker", and "Match and Win".

SCHEDULE OF EVENTS

September

10-11, Tuesday-Wednesday
8:30 a.m. - 4:00 p.m.
"Expanding Horizons and Assessment Practices"
To register, contact:
Sara Zeno, Outreach
(501) 663-8331.

24, Tuesday, 2:00 p.m.
"How to Use the Touch Talker"
Presenter: Sylvia Starr,
Prentke Romich Company.
Sponsored by: Arkansas
Augmentative and Alternative
Communication Consortium.
To register, contact the
Center at (501) 663-8331.

26, Wednesday-Thursday,
8:30 a.m. - 4:30 p.m.
"Getting Started Workshop"
Sponsored by: Prentke
Romich Company (PRC).
To register, contact: PRC at
1 (800) 262-1984.

October

3-5, Thursday-Saturday
*Learning Disabilities
Association of Arkansas
Annual Conference*, Pine
Bluff Convention Center.
Contact the LDAA Office at
(501) 225-1766.

23, Wednesday, 2:00 p.m.
*"Autoskill Component
Reading Subskills Preview"*
Presenter: Robert Pollan.
(Autoskill is a comprehensive

literacy program used by
businesses such as Sears to
help employees gain literacy
skills). To register, contact
the Center at (501) 663-8331.

November

20, Wednesday
10:00 - 11:30 a.m.
*"Making Communication
Boards on the Computer"*
To register, contact the
Center at (501) 663-8331.

Directory of Services

ARKANSAS TECHNOLOGY RESOURCE CENTER PROVIDES:

- Hands-on experiences with computers and software.
- Information about assistive technology on request.
- Access to a technology loan library for members.
- Technology evaluations in augmentative communication and computer access on a fee-for-service basis.
- Monthly workshops on technology topics.
- Technology consultations, assistance, and training on a fee-for-service basis.

Arkansas Technology Resource Center

AR Easter Seal Society
2801 Lee Avenue
Little Rock, AR 72205

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TECHNICALLY SPEAKING

A NEWSLETTER OF THE ARKANSAS TECHNOLOGY RESOURCE CENTER

Vol. 2, Number 2

Spring, 1992

Tools for Living... A Guide for Aging Arkansans

Generally, as people get older their health care and daily living needs change. However, the need to be as independent as possible does not change -- everyone has this basic need.

Through the use of "tools for living", most persons in Arkansas can be more independent. These tools can be very simple, such as eyeglasses and lowered cabinets, or complex, such as powered wheelchairs and computer controlled home living systems. Tools for living often give persons a way to get around in the home and community, to take care of their health care needs, to enjoy a wider range of recreational pursuits, and to remain active in daily living activities.

These are but just a few ways in which tools for living can help persons.

The *Tools for Living* guide was designed for elderly individuals in Arkansas and for professionals working with them. It provides information about obtaining and using tools for living. The Guide shows persons ways to work with agencies and organizations to see that tools needed by individuals are provided. It is intended to be an introduction to the process of getting needed tools for living into the hands of persons who need it.

Free copies of *Tools for living...A guide for Aging Arkansans* can be obtained from the Arkansas Technology Resource Center.



Enlarged keys makes using the phone easier.

Photo source: American Association of Retired Persons (1986). Making life a little easier: Self-help tool for the home. Washington, D.C.: Author. Reprinted with permission.

ECHO Housing

FRIENDS OF THE CENTER

DAVID & MARGARET COLE
ELLEN CORLEY
JENNY ERICKSON
CHARLOTTE GADBERRY
CINDY LLOYD
KAREN MASSEY
CATHIE MUELLER
SANDY NEHUS
SUE NESTRUD
MR. & MRS. R. REMMEL
MADELON SCALLET
PAUL SHUFFIELD, JR.
CYNTHIA SINGLETARY
JANCIE SISK
ALAN VANBIERVLIET
MARTY WALTON
DEBBIE WILSON
REBECCA WOOD

ALTHIEMER PUBLIC SCHOOLS
ARKANSAS CHILDREN'S HOSPITAL
ARKANSAS PEDIATRIC FACILITY
BENTONVILLE PUBLIC SCHOOLS
BRYANT SCHOOL DISTRICT
CHICOT ELEMENTARY SCHOOL
DAWSON EDUCATIONAL COOP.
GREENWOOD SCHOOLS
JOHNSON CO. SPECIAL ED. COOP.
LITTLE ROCK LAB SCHOOL
SHERIDAN SCHOOL DISTRICT
SOUTHSIDE SCHOOL DISTRICT

ECHO stands for Elder Cottage Housing Opportunity. ECHO is a housing arrangement which offers the elder person an opportunity to live in close proximity to those who can help him or her maintain independence and privacy. The following information comes from a publication from AARP, a nonprofit, nonpartisan, educational and social welfare organization which promotes independence, dignity and purpose for older persons.

An ECHO unit is a small house set on the side or back yard of an existing family home. This structure is designed to serve the individual needs of infirmed, or disabled, as well as able-bodied, older Americans. The ECHO concept involves maintaining individual dignity while providing the kinds of support needed by an elder family member.

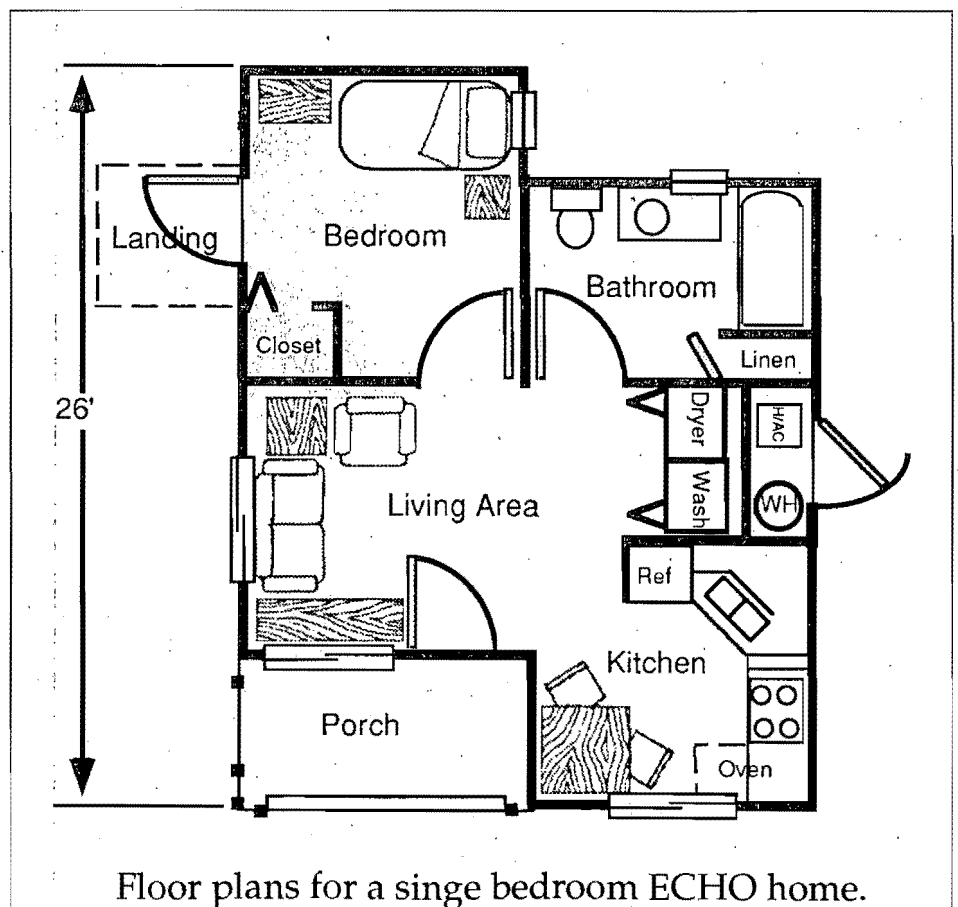
The size of ECHO units vary. The minimum recommended size is 280 square feet for single occupancy, and 400 square feet for two persons. These ECHO houses are intended for temporary placement on residential lots. The size of each unit is based on the number of occupants, the size of the primary dwelling, the size of the lot, the units placement on the property, and its portability.

REGIONAL TRAININGS

Join us when we come to your town for the following regional trainings:

- * July 10 - Marshall (CMS Clinic)
Searcy County Health Department
- * August 19 - Batesville
Division of Rehab. Services
- * August 27 - El Dorado
El Dorado High School
- * September 24 - Hope
S. W. Ark. Ed. Co-op.

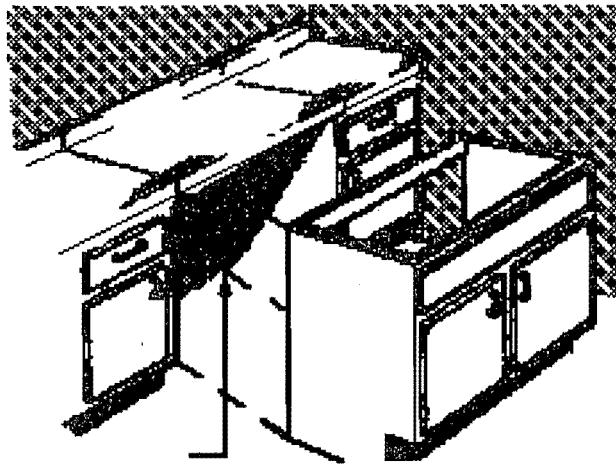
For more information contact:
Susan Plegge (501)663-8331



Incorporated into these structures is an approach called adaptable housing. Adaptable housing is accessible housing that does not look different from other housing and which has features that can be easily adjusted, added, or removed as needed.

There are three principle elements of adaptable housing, these are: (1) removable base cabinets; (2) segments of counters that can be adjusted in height; (3) reinforced wall areas so grab bars can be attached and removed in bathrooms, bedrooms, and other areas as needed by the occupants.

If you would like further information on ECHO housing contact The American As-



Removable cabinet and adjustable height counter.

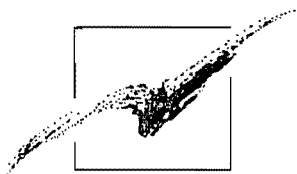
sociation of Retired Persons 1909 K Street, N.W., Washington, D.C. 20049. Direct your inquiry to the Housing Program, ask for ECHO Housing, Recommending Construction and Installation Standards: ECHO Housing, a review of zoning issues and other considerations.

For more information on

adaptable housing contact the U.S. Department of Housing and Urban Development, the Special Advisor for Handicapped Programs, 451 7th Street, S.W., Room 10140, Washington, D.C. 20410, ask for publication # HUD-1124-PDR.

Other publication: *The Doable Renewable Home*, contact the American Association of Retired Persons, Consumer Affairs Program, 1909 K Street, N.W., Washington, D.C. 20049.

All of these publications are available at the Department of Human Services, Arkansas Office on Aging, Donaghey Building, Room 1428, 7th and Main St., Little Rock, AR 72205.



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ACCESS

Detach Here 

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Members:

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- May attend all regular center workshops without a fee
- Receive a reduced loan fee on valuable equipment
- Are given priority on equipment loan
- Are helping the center to operate

NAME: _____

AFFILIATION: _____

ADDRESS: _____

CITY: _____ **STATE:** _____ **ZIP:** _____

PHONE: _____

SCHEDULE OF EVENTS

JUNE

22 - 26, Monday-Friday
9 a.m. - 12 noon.
"Augmentative Communication
Camp" Cost: \$45.00. To register
contact: Susan Plegge at
(501)663-8331.

JULY

15 - 16, Wednesday - Thursday
8:30 a.m. - 4:30 p.m.
"Getting Started Workshop"
Sponsored by Prentke
Romich Company (PRC)
To register, contact: PRC
1(800)262-1984



JULY

20 - 24, Monday - Friday
9 a.m. - 12 noon "Computer
Camp for Learning
Disabilities" Cost: \$45.00
To register, contact: Susan
Plegge at (501)663-8331

25, Saturday, 10:00 a.m.
Augmentative Communication
Parents Support Group. For
more information contact:
Susan Plegge (501)663-8331.

DIRECTORY OF SERVICES

ARKANSAS TECHNOLOGY RESOURCE CENTER PROVIDES

- * Hands-on experiences with computers and software
- * Information about assistive technology on request
- * Access to a technology loan library for members
- * Technology evaluations in augmentative communication and computer access on a fee-for-service basis.
- * Monthly workshops on technology topics
- * Technology consultations, assistance, and training on a fee-for service basis.

This newsletter was developed in part under a grant from the Division of Rehabilitation Services (DRS), Department of Human Services from funds received by Arkansas under Title I, P.L. 100-407 Technology Related Assistance for Individuals with Disabilities Act of 1988. It is funded by a grant (H224A90020-91) by the National Institute on Disability and Rehabilitation Research, (NIDRR), U. S. Department of Education. The contents do not necessarily reflect the views of DRS or NIDRR, U. S. Department of Education and do not imply endorsement by the U. S. Government.

ICAN TECHNOLOGY ACCESS CENTERS

Blind & Visually Impaired
Lions World Services for the Blind

Jan Lynch
(501)664-7100 (Voice)
(501)664-7403 (TDD)

Communication & Computer Access
Arkansas Easter Seal Society

Nancy Dunn
(501)663-8331 (Voice)
(501)663-8054 (TDD)
(501)664-1546 (FAX)

Deaf & Hard of Hearing
University of Ark. at Little Rock
Dept. of Audiology & Speech
Dr. Hope Keiser
(501)569-8905 (Voice and TDD)

Independent Living
Life Styles, Inc.

Doris Culver
(501)521-3581 (Voice)
(501)521-5415 (TDD)
(501)521-8476 (FAX)

Language & Learning
Arkansas Easter Seal Society

Ginny Heiple
(501)663-8331 (Voice)
(501)663-8054 (TDD)
(501)664-1546 (FAX)

**Arkansas Technology
Resource Center**
AR Easter Seal Society
2801 Lee Avenue
Little Rock, AR 72205

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Little Rock, AR



FOUNDATION
— for —
TECHNOLOGY
A C C E S S

October 29, 1993

Carol Rasco
Assistant to the President for Domestic Policy
Second Floor, West Wing
The White House
1600 Pennsylvania Avenue
Washington, DC 20500

Dear Ms. Rasco:

I am writing at the suggestion of Ginny Heiple and Janet Hargett, staff and board members of the Arkansas Technology Resource Center (TRC) at the Arkansas Easter Seal Society in Little Rock. As you may know, TRC is a part of a national network of 46 community-based, consumer-driven technology resource centers known as the Alliance for Technology Access. Because you have been involved in the Little Rock program with your son, they felt you would immediately understand our efforts, which are described in the enclosed letter to Mrs. Clinton.


I have recently had the opportunity to meet with Assistant Secretary Judy Heumann and others at the Department of Education, in conjunction with a Satellite Town Meeting on technology and education hosted by Secretary Riley and Deputy Secretary Kunin. Judy suggested that I meet with you to tell you more about our efforts in communities across the country. She felt you would be particularly interested in the strong role which parents play in the Alliance, developing the skills to more effectively advocate on behalf of their children.

I would welcome the opportunity to meet with you and in particular to share with you our plans for a major training event, Institute '94, which will take place in Washington on July 18-21. At that time some 250 parents, individuals with disabilities, teachers, rehabilitation professionals, technology wizards, and others will gather to learn more about the potential of new and emerging technologies which support ever greater achievement and quality of life for children and adults with disabilities. We have invited Mrs. Clinton to keynote this meeting.

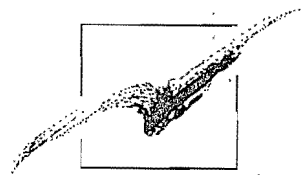
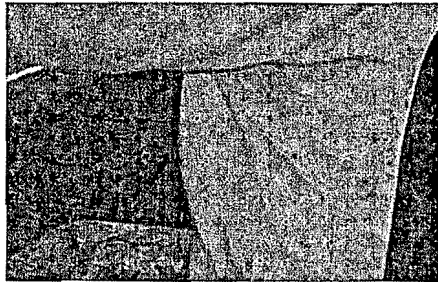
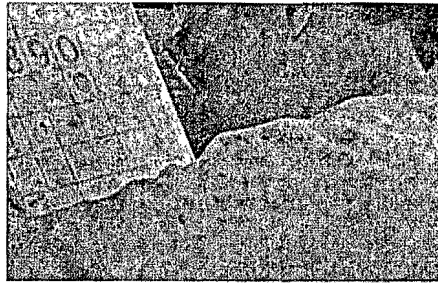
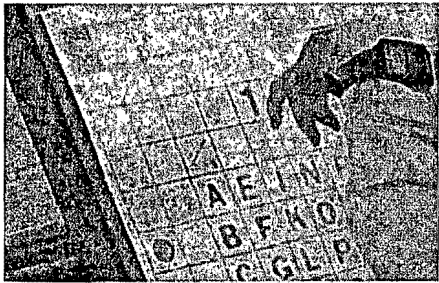
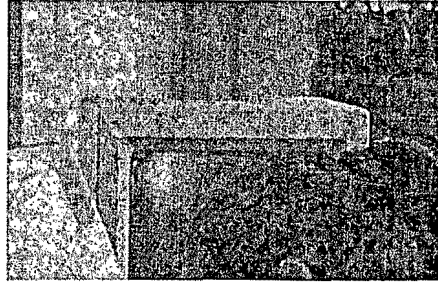
Because you are a parent who understands our purpose and the importance of family-based community, I would like to invite you to participate in our Institute next summer. Your insights both from a parental and administrative perspective would bring tremendous resources and insights to our diverse and dedicated group from across the nation.

I welcome the opportunity to talk further at a time convenient for you.

Sincerely,


Jacquelyn Brand
Executive Director

PARTNERS
IN THE PROMISE
OF TECHNOLOGY



FOUNDATION
— *for* —
TECHNOLOGY
ACCESS



The Foundation for Technology Access (FTA) is working to redefine human potential by making technology a regular part of the lives of people with disabilities.

Technology equalizes opportunities. Properly harnessed, it can diminish or eliminate environmental barriers, and, in so doing, alter the life and dreams of everyone with a disability.

Engaging in programs and activities on both the national and local levels, the FTA promotes widespread use of assistive technologies. Through public awareness and education campaigns, we are promoting technology as an agent of social change in one of this era's most compelling causes—civil rights for people with disabilities.

The FTA recognizes the paramount importance of enabling individuals with disabilities and their family members to make their own decisions about technology by arming them with the best possible information. It is the mission of the FTA to awaken people to technology's vast potential. We challenge people to raise their expectations—to make technology fulfill its initial promise and more.

Perhaps our most important effort, the Alliance for Technology Access (ATA) is a national network of community-based computer resource centers. Through the ATA, the FTA is training a force of expert advocates, dedicated to pushing the limits of convention—people who ask not “whether” something can be done, but only “how” it can be accomplished.

In collaboration with the hundreds of technology users and their families, professionals, and vendors who make up the Alliance for Technology Access, the FTA is working toward the realization of a world in which we are not limited by our disabilities and our expectations, but rather empowered by our tools and our dreams.



FOUNDATION
— for —
TECHNOLOGY
ACCESS

Jacquelyn Brand
Executive Director

1128 Solano Avenue
Albany, CA 94706-1638
(510) 528-0747
Fax (510) 528-0746

Clinton Presidential Records Digital Records Marker

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This marker identifies the place of a publication.

Publications have not been scanned in their entirety for the purpose of digitization. To see the full publication please search online or visit the Clinton Presidential Library's Research Room.

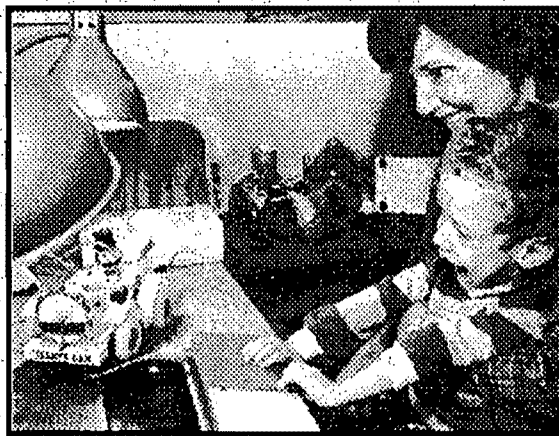
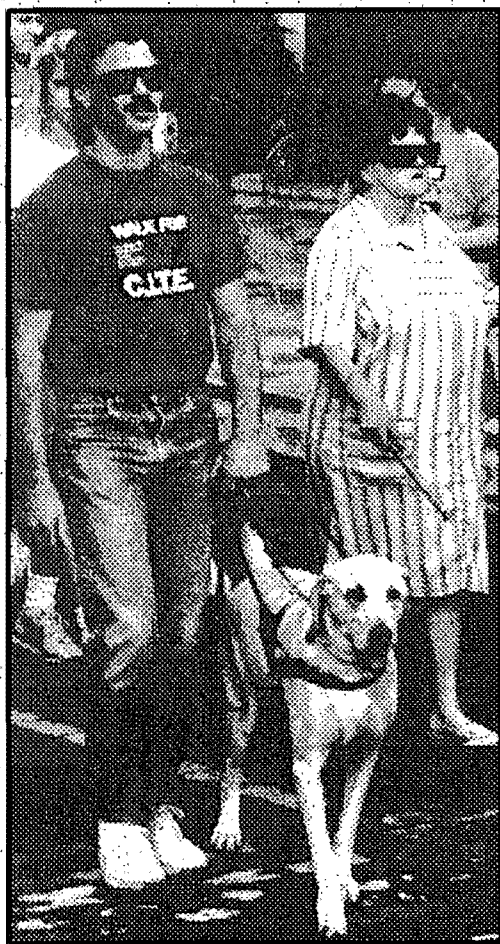
1992 Program Impact Report

Redefining Human Potential:

The Partners, Progress and
Promise of the
Alliance for Technology Access



ALLIANCE
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TECHNOLOGY
ACCESS



TECHNICALLY SPEAKING

A NEWSLETTER OF THE ARKANSAS TECHNOLOGY RESOURCE CENTER

VOL. 1, NUMBER 2

Fall, 1991



Paul McLeod and Arun Gurjale, volunteer engineers work on IBM

Alliance for Technology Access Receives Gift from IBM

IBM recently loaned educational software to the Alliance for Technology Access (ATA) to support ATA's services to special education students across the country. The software, valued at \$250,000.00, was loaned to ATA at no cost.

The ATA is a non-profit organization that empowers persons with disabilities to control their own lives using technology. It operates 46 resource centers around the country.

Through the IBM loan program, the ATA received products to teach reading, language arts, math and science skills, as well as products to assist persons with hearing, vision and speech disabilities.

The Arkansas Technology Resource Center was selected as one of the ATA centers to receive this software. Some of the IBM software available for preview through this loan include the *Reading For Information Series™*, the *Reading for Meaning Series™*, *Primary Editor Plus™*, and *Math Exploration Toolkit™*. The software may be previewed by contacting the Center for an appointment.



Summer Activities

Summer of 1991 has been an exciting time for the Resource Center. During June, the center held an augmentative and alternative communication camp for nonspeaking children in grades kindergarten through third. The kids spent a fun-filled week at our imaginary "Disneyland" and participated in such activities as computer play, games, "reading" books using their communication devices, and art projects. The camp provided the children with the opportunity to interact with peers and adults using their communication devices.

Parents and their children had the opportunity to interact together with a variety of computers and software at Parent/Toddler TECH which was held once a week during the month of July. Participating families had hands-on experiences with IBM, Apple Iigs, Apple IIe, and Macintosh computers, and were able to try out commercially available and public domain software.

The center also held a Computer Camp for junior high students with learning disabilities during the month of July. The "campers" spent a week learning keyboarding and word processing skills, and wrote a camp newsletter titled *Daily Disk*.



Friends of the Center

Mary Fran Adams
Jane Bauer
John Beck
Brenda Bradley
Dee Ellison
Kim Golden
Jo Magee
Susan & Robert Mauney
Kim Molinaro
Andrea Nash
Deby Wallace
United Medical, Inc.

Arkansas Technology Resource Center Staff

Ginny Heiple, M.Ed.
Director

Nancy Dunn, SLP
TAC Coordinator

Debra Fehlman, SLP
Evaluation Services

JoLynn Pickens, PT
Evaluation Services

Pamela Uhlemann
Program Assistant

For more information contact:

Arkansas Technology
Resource Center
Arkansas Easter Seal Society
2801 Lee Avenue
Little Rock, AR 72205

(501) 663-8331
FAX or TDD 663-1546
Hours 8:30 - 4:00

DISK COPY

The following is a sample of software which is currently on the market.

THINKable™ is a new cognitive rehabilitation system for adolescents and adults that uses the IBM PS/2. The system provides two distinct functions that work in tandem: a *Patient Therapy* practice tool with the latest in multi-media technology (including photo-quality pictures, animation, graphics, and life-like human voice); and *Case Management* with extensive data reporting capabilities.

THINKable™ focuses on four vital cognitive skills: visual attention, visual discrimination, visual memory, and visual-sequential memory. Treatment sessions can be customized by clinicians to ensure an appropriate level of difficulty and enhanced motivation for each patient.

THINKable™ was tested extensively at nine sites in Europe and the United States by professionals that included speech-language pathologists and neuropsychologists. Additional research is currently underway.

THINKable™ is available from Psychological Corporation. For further information call 1 (800) 228-0752 and ask for software assistance.



Interaction Games II is a software program designed to provide a natural setting for experiencing cooperative and competitive play. It allows two players to improve their single switch skills with six different games. Players can gallop horses down to the finish line in "Horse Race" or throw pies at each other in "Pie in the Eye". Other games include "Mountain Climbers", "Slap Jack", "Ice Breaker", and "Match and Win".

HAVE YOU HEARD

IBM VoiceType™, a large vocabulary speech recognizer, is the newest offering in IBM's Independence Series of products. IBM Voice Type™, developed by Dragon Systems and IBM, is based on technology invented by Dragon Systems for its DragonDictate products.

IBM VoiceType™ is a powerful tool that provides an affordable "hands free" alternative to using a computer keyboard for persons with disabilities. It allows PC users to create any text by speaking instead of typing! A 7,000 word active vocabulary provides the flexibility to create complex documents by voice, and an integrated 80,000 word backup dictionary gives the user greater capability for the rapid creation of text.

For more information, contact Dragon Systems, Inc. at (617) 965-5200.

Whisper Wolf® is an auditory scanning, voice output communication aid that is one of the first of its kind! The Whisper Wolf is actually a fully operational, user programmable Wolf which is touchpanel-activated. It has been enhanced to include an auditory scanning function.

Activating a communication aid by scanning is an alternative for individuals who do not have sufficient motor function to use a touchpanel. In visual scanning, the vocabulary choices are presented visually, typically with lights arrayed in a matrix.

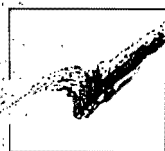
For some individuals, visual scanning is a problem: either too complex cognitively or requiring visual skills which are disabled. Some visual scanning communication aids offer an auditory scan option but the voice output "blares" the vocabulary items which can be

disruptive in most contexts.

The Whisper Wolf has the addition of a second speaker, a "private speaker" which improves this auditory scanning technique. The selection of choices are "whispered", or spoken to the user through the private speaker which is mounted near the user's ear. When the user hears the desired choice, s/he activates the switch and the selection is re-spoken through the "public speaker"! For more information, contact ADAMLAB at (313) 467-1415.

Access DOSS® provides extended keyboard, mouse, and sound access for IBM DOS users. It includes a number of interesting features useful to persons with disabilities, and is provided "as is" without charge. For more information, contact IBM at 1 (800) 426-7282.

Detach Here 



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- May attend all regular Center Workshops without a fee
- Receive a reduced loan fee on valuable equipment
- Are given priority on equipment loan
- Are helping the center to operate

NAME: _____

AFFILIATION: _____

ADDRESS: _____

CITY: _____ STATE: _____ ZIP: _____

PHONE: _____

SCHEDULE OF EVENTS

November

14, Thursday 1:00 - 4:00 p.m.
Arkansas Augmentative and
Alternative Communication
Consortium at Conway
Human Development Center
in the Visitation Complex.
The presentation title is "AAC
Evaluation: What To Look
For, What to Do".

December

11, Wednesday-Thursday,
8:30 a.m. - 4:30 p.m.
"Getting Started Workshop"
Sponsored by: Prentke
Romich Company (PRC).
To register, contact:
PRC at 1 (800) 262-1984.

January

15, Wednesday 1:30 p.m. IBM
Education Software Preview at
the Technology Center. To
register contact the Center
(501) 663-8331

30, Thursday 9:30 a.m. Switch
Software Preview at the
Technology Center. To
register contact the Center at
(501) 663-8331.

Directory of Services

ARKANSAS TECHNOLOGY RESOURCE CENTER PROVIDES:

- Hands-on experiences with computers and software.
- Information about assistive technology on request.
- Access to a technology loan library for members.
- Technology evaluations in augmentative communication and computer access on a fee-for-service basis.
- Monthly workshops on technology topics.
- Technology consultations, assistance, and training on a fee-for-service basis

.....

**ARKANSAS TECHNOLOGY
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2801 Lee Avenue
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TECHNICALLY SPEAKING

A NEWSLETTER OF THE ARKANSAS TECHNOLOGY RESOURCE CENTER

VOL. 1 NUMBER 1

SPRING, 1991

Hand In Hand

Systematics, Inc., a Little Rock based software company, has given the Arkansas Technology Resource Center a gift of an IBM PS/2 Model 70 computer with a 120 megabyte hard drive and eight megabytes of RAM. The computer will be used to support Dragon Dictate software which allows the user to bypass the keyboard and use voice for input.

Dragon Dictate was originally designed for busy executives and doctors who may have to use transcription and need a quicker method of inputting information into the computer. Voice commands which replace keystrokes are a boon for many disabled people who may not have use of their hands.

Thanks to Systematics for their support and belief that voice recognition may give some people with disabilities the power to do more through technology.



Technology Access Centers

Two Technology Access Centers funded through Public Law 100-407 are located at the Arkansas Technology Resource Center at the Arkansas Easter Seal Society.



Ginny Heiple, Director

The Technology Access Center in Communication provides specialized services in augmentative communication and computer access. The Technology Access Center in Language and Learning provides specialized technology information and demonstrations for individuals with learning disabilities, closed head injuries, or stroke.

Arkansas was one of the first nine states to receive funding through PL 100-407 which provides funds for states to develop programs that will assist people with disabilities in gaining information and access to technology. The Division of Rehabilitation Services is the lead agency for the grant funds that Arkansas received. ICAN, Increasing Capabilities Access Network, serves as the Coordinator for the program that includes a state-wide information system, five technology access centers, and other components as outlined in the federal grant. A Used Equipment Exchange has been established through ICAN. This program will provide people with the opportunity to sell, trade, or loan out assistive technology that they are no longer using. Individuals who are interested in participating in the Used Equipment Exchange or in getting more information about ICAN should call (501) 666-8868.



Friends of the Center

Systematics, Inc.
IBM Education/Arkansas
Harvest Foods in the Heights
Weekly Reader Software/
Optimum Resource, Inc.
Laureate Learning Systems, Inc.
Apple Computer, Inc.

Arkansas Technology Resource Center Staff

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JoLynn Pickens, PT
Evaluation Services

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Hours 8:30 - 4:00

DISK COPY

The following is a sample of software which is available for preview at the Arkansas Technology Resource Center.

McGEE by Lawrence Productions, Inc., is "no words" software for children, ages two to five years that allows children to explore and participate using a mouse to help a young boy named, McGee, explore his house. Wonderful graphics and digitized sound make this "mouse clicking" adventure one that children won't soon forget. McGee was granted a 1990 Parents' Choice Award for Computer Programs. McGee is available for Apple and IBM/PC computers.

MICKEY'S ABC'S A DAY AT THE FAIR and a Sound Source machine allow youngsters to learn the alphabet accompanied by the unique voices of Mickey Mouse and his other Disney pals. Children hit a key on the keyboard and Mickey moves around his house or takes a trip to the fair explaining the letter and a corresponding word. The child sees the letter and the word in written form and also hears it. Additional software that utilizes the sound source is also available from Disney. All of the Disney programs that utilize the sound source are available for IBM/PC's, and one is available for the Apple.



Sidney Wolfe from Mena and Deb Fehlman contemplating a new piece of software at the Technology Resource Center

HOW TO READ FOR EVERYDAY LIVING by Educational Activities, Inc., uses a whole language approach to teach survival and real life reading skills. The program is designed to be used by grades 7 through 12 and adults who are reading at a fourth to fifth grade level. The package is composed of three disks and a manual. Reading activities include topics such as "Managing Your Money" and "Working with Help Ads and Job Applications". This software is available for IBM/PC computers.

HAVE YOU HEARD

Prentke Romich Company (PRC) has developed software packages designated Minspeak Application Programs (MAPs). MAPs are prestored vocabularies and symbol systems for PRC's major communication devices (Touch Talkers and Light Talkers). Each MAP, in addition to having prestored words and phrases, allows for individualized programming. Three of the MAPs include: "Interaction, Education, and Play", "Power and Play", and "Words Strategy".

■ **Interaction, Education, and Play** contains vocabulary and activities which are appropriate for children at the preschool to early academic level. This program provides children at this level the opportunity to

develop communication skills within a variety of fun activities including reading books, telling jokes, and singing songs. It also facilitates the development of interaction skills and provides a flexible vocabulary to enable nonspelling children to generate new messages.

■ **"Power and Play"** contains vocabulary appropriate for those cognitively and linguistically below the four-year old level. It contains recreational activities, encourages learning of descriptive concepts and multiple meanings of icons, and includes vocabulary which provides for common daily activities such as basic

needs. This program gives children an opportunity to learn communication while taking pleasure in a little child's play.

■ **"Words Strategy"** contains vocabulary and symbols appropriate for individuals functioning nine years to adult and who want to express themselves fully at a rate much faster than spelling. It allows users to communicate with a precision that was once available only by spelling but with 1/3 to 1/4 the effort. This program is generic enough to be immediately functional for all users, yet its flexibility accomodates the most advanced user.



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- * Are helping the center to operate

NAME: _____

AFFILIATION: _____

ADDRESS : _____

CITY: _____ STATE: _____ ZIP: _____

PHONE: _____

SCHEDULE OF EVENTS

APRIL

- Wednesday, April 3
AAACC Consortium
3:30 p.m.
- Wednesday, April 10
Resource Time
4:00 - 6:00 p.m.
- Wednesday, April 16
Auditory Processing
by Virginia Berry,
Educational Audiologist
3:00 - 5:00 p.m.
- Thursday, April 25
Environmental Control
Demonstration
Presented by AR Conversion
Center
10:00 - 12:00 noon

MAY

- Wednesday, May 8
Early Learning Software Preview
10:00 - 12:00 Noon
- Saturday, May 18
Resource Time
9:00 - 11:00 a.m.
- Wednesday, May 29
Computers, Software, and Reading
10:00 - 12:00 Noon

JUNE

- Tuesday, June 4
9:30 - 11:00
Reading Software
Preview
- Monday - Friday
June 17 - June 21
9:00 - 12:00
Augmentative
Communication Camp
Grades K-3
Fee \$40.00
- Tuesday, June 25
9:30 - 11:00
Reading Software
Preview

JULY

- Tuesday, July 2, 9, 16
9:30 - 11:00
Parent/Toddler TECH
- Monday - Friday
July 22 - July 26
9:00 - 12:00
Computer Camp for Learning
Disabled Junior High Students
Grades 6-12
Fee \$40.00

AUGUST

- Monday - Friday
August 12 - August 16
9:00 - 12:00
Augmentative Communication
Camp Grades 6-12
Fee \$40.00

Directory of Services:

- Provides hands on experience with computers and software
- Provides information about assistive technology upon request
- Has a technology loan library for members
- Provides technology evaluations in augmentative communication and computer access on a fee for service basis
- Provides workshops on technology topics on a monthly basis
- Provides technology consultations, assistance and training on a fee for service basis

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TECHNICALLY SPEAKING

A NEWSLETTER OF THE ARKANSAS TECHNOLOGY RESOURCE CENTER

Vol. 2, Number 2

Spring, 1992

Tools for Living... A Guide for Aging Arkansans

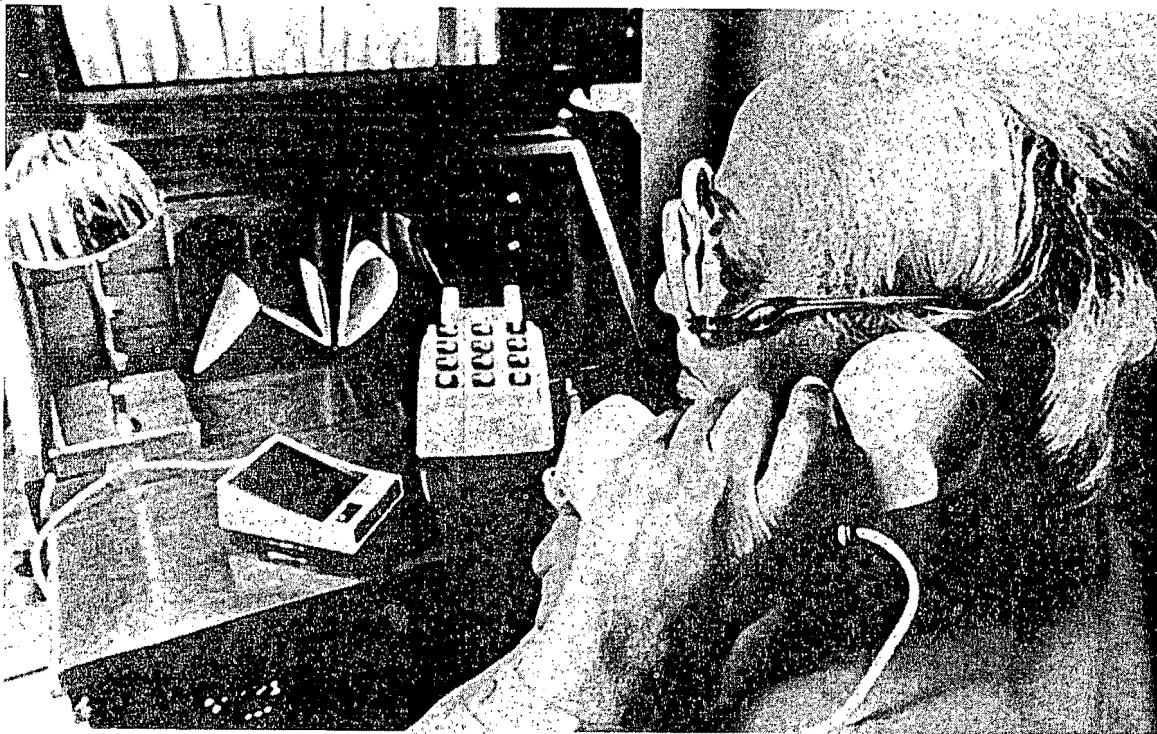
Generally, as people get older their health care and daily living needs change. However, the need to be as independent as possible does not change -- everyone has this basic need.

Through the use of "tools for living", most persons in Arkansas can be more independent. These tools can be very simple, such as eyeglasses and lowered cabinets, or complex, such as powered wheelchairs and computer controlled home living systems. Tools for living often give persons a way to get around in the home and community, to take care of their health care needs, to enjoy a wider range of recreational pursuits, and to remain active in daily living activities.

These are but just a few ways in which tools for living can help persons.

The *Tools for Living* guide was designed for elderly individuals in Arkansas and for professionals working with them. It provides information about obtaining and using tools for living. The Guide shows persons ways to work with agencies and organizations to see that tools needed by individuals are provided. It is intended to be an introduction to the process of getting needed tools for living into the hands of persons who need it.

Free copies of *Tools for living...A guide for Aging Arkansans* can be obtained from the Arkansas Technology Resource Center.



Enlarged keys makes using the phone easier.

Photo source: American Association of Retired Persons (1986). Making life a little easier: Self-help tool for the home. Washington, D.C.: Author. Reprinted with permission.

ECHO Housing

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 MARTY WALTON
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 ARKANSAS PEDIATRIC FACILITY
 BENTONVILLE PUBLIC SCHOOLS
 BRYANT SCHOOL DISTRICT
 CHICOT ELEMENTARY SCHOOL
 DAWSON EDUCATIONAL COOP.
 GREENWOOD SCHOOLS
 JOHNSON CO. SPECIAL ED. COOP.
 LITTLE ROCK LAB SCHOOL
 SHERIDAN SCHOOL DISTRICT
 SOUTHSIDE SCHOOL DISTRICT

ECHO stands for Elder Cottage Housing Opportunity. ECHO is a housing arrangement which offers the elder person an opportunity to live in close proximity to those who can help him or her maintain independence and privacy. The following information comes from a publication from AARP, a nonprofit, nonpartisan, educational and social welfare organization which promotes independence, dignity and purpose for older persons.

An ECHO unit is a small house set on the side or backyard of an existing family home. This structure is designed to serve the individual needs of infirmed, or disabled, as well as able-bodied, older Americans. The ECHO concept involves maintaining individual dignity while providing the kinds of support needed by an elder family member.

The size of ECHO units vary. The minimum recommended size is 280 square feet for single occupancy, and 400 square feet for two persons. These ECHO houses are intended for temporary placement on residential lots. The size of each unit is based on the number of occupants, the size of the primary dwelling, the size of the lot, the units placement on the property, and its portability.

REGIONAL TRAININGS

Join us when we come to your town for the following regional trainings:

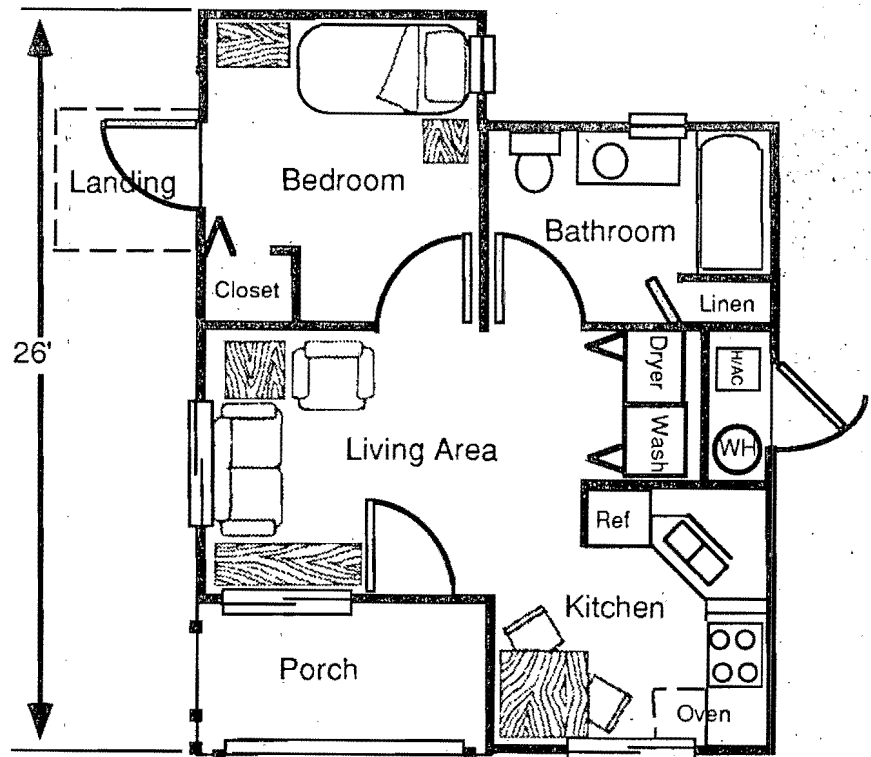
* July 10 - Marshall (CMS Clinic)
 Searcy County Health Department

* August 19 - Batesville
 Division of Rehab. Services

* August 27 - El Dorado
 El Dorado High School

* September 24 - Hope
 S. W. Ark. Ed. Co-op.

For more information contact:
 Susan Plegge (501)663-8331

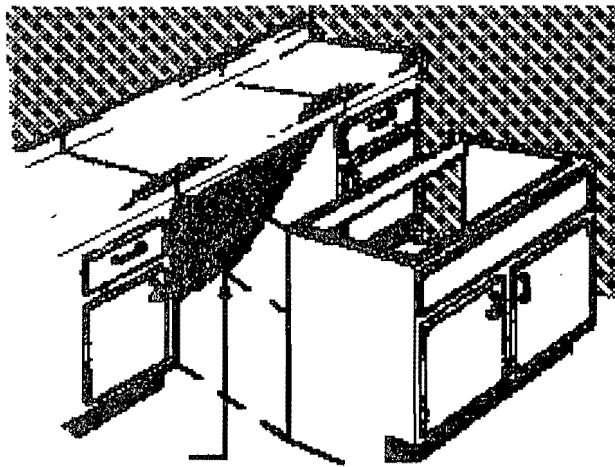


Floor plans for a single bedroom ECHO home.

Incorporated into these structures is an approach called adaptable housing. Adaptable housing is accessible housing that does not look different from other housing and which has features that can be easily adjusted, added, or removed as needed.

There are three principle elements of adaptable housing, these are: (1) removable base cabinets; (2) segments of counters that can be adjusted in height; (3) reinforced wall areas so grab bars can be attached and removed in bathrooms, bedrooms, and other areas as needed by the occupants.

If you would like further information on ECHO housing contact The American As-



Removable cabinet and adjustable height counter.

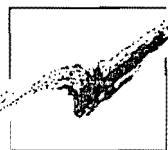
sociation of Retired Persons 1909 K Street, N.W., Washington, D.C. 20049. Direct your inquiry to the Housing Program, ask for ECHO Housing, Recommending Construction and Installation Standards: ECHO Housing, a review of zoning issues and other considerations.

For more information on

adaptable housing contact the U.S. Department of Housing and Urban Development, the Special Advisor for Handicapped Programs, 451 7th Street, S.W., Room 10140, Washington, D.C. 20410, ask for publication # HUD-1124-PDR.

Other publication: *The Doable Renewable Home*, contact the American Association of Retired Persons, Consumer Affairs Program, 1909 K Street, N.W., Washington, D.C. 20049.

All of these publications are available at the Department of Human Services, Arkansas Office on Aging, Donaghey Building, Room 1428, 7th and Main St., Little Rock, AR 72205.



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NAME: _____

AFFILIATION: _____

ADDRESS: _____

CITY: _____ **STATE:** _____ **ZIP:** _____

PHONE: _____

SCHEDULE OF EVENTS

JUNE

22 - 26, Monday-Friday
9 a.m. - 12 noon.
"Augmentative Communication
Camp" Cost: \$45.00. To register
contact: Susan Plegge at
(501)663-8331.

JULY

15 - 16, Wednesday - Thursday
8:30 a.m. - 4:30 p.m.
"Getting Started Workshop"
Sponsored by Prentke
Romich Company (PRC)
To register, contact: PRC
1(800)262-1984



JULY

20 - 24, Monday - Friday
9 a.m. - 12 noon "Computer
Camp for Learning
Disabilities" Cost: \$45.00
To register, contact: Susan
Plegge at (501)663-8331

25, Saturday, 10:00 a.m.
Augmentative Communication
Parents Support Group. For
more information contact:
Susan Plegge (501)663-8331.

DIRECTORY OF SERVICES

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- * Technology evaluations in augmentative communication and computer access on a fee-for-service basis.
- * Monthly workshops on technology topics
- * Technology consultations, assistance, and training on a fee-for service basis.

This newsletter was developed in part under a grant from the Division of Rehabilitation Services (DRS), Department of Human Services from funds received by Arkansas under Title 1, P.L. 100-407 Technology Related Assistance for Individuals with Disabilities Act of 1988. It is funded by a grant (H224A90020-91) by the National Institute on Disability and Rehabilitation Research, (NIDRR), U. S. Department of Education. The contents do not necessarily reflect the views of DRS or NIDRR, U. S. Department of Education and do not imply endorsement by the U. S. Government.

**Arkansas Technology
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AR Easter Seal Society
2801 Lee Avenue
Little Rock, AR 72205

ICAN TECHNOLOGY ACCESS CENTERS

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Nancy Dunn
(501)663-8331 (Voice)
(501)663-8054 (TDD)
(501)664-1546 (FAX)

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(501)521-5415 (TDD)
(501)521-8476 (FAX)

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The Power To Overcome

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Arkansas Easter Seal Society

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Report Number 1022

Corporate Support for Mathematics and Science Education Improvement

Case studies show that corporate-supported programs are:

- *developing curricula that encourage active learning*
- *improving mathematics and science motivation and achievement*
- *contributing to better classroom instruction*

Mainstream Science Education for Children With Disabilities

Case Four: NEC Foundation of America, Apple Computer, Inc.

Charlotte, North Carolina

Models for Integration: Science and Technology (MIST)

The Models for Integration: Science and Technology project (MIST) in Charlotte, North Carolina uses computer technology to improve science education for students with disabilities. Charlotte's 1992-93 MIST pilot (there are two others in Santa Monica, California and Utica, New York) relies on partial funding from the NEC Foundation, support from Charlotte's East Mecklenburg High School, and the active involvement of local Apple Computer employee volunteers working through the Carolina Computer Access Center (CCAC) to increase participation of children with disabilities in science programs; to make all students more aware of assistive technologies and their potential to enrich the science curriculum; and to promote MIST throughout the country as a successful model for improving the science classroom experience for all high school students.

The NEC Foundation provides partial funding through a grant to the Foundation for Technology Access (FTA) which selected three of its 46 community-based computer resource centers (this network is known as the Alliance for Technology Access and the individual units are called ATA centers) to participate in initial seven-month MIST programs. As one of the ATA centers, the Carolina Computer Access Center chose a tenth-grade biology class at East Mecklenburg High School for its initial venture.

Judy Timms, CCAC's director, says that the MIST's successful start-up depended heavily on cooperation between the Center and East Mecklenburg High School. The school's purchase of four Macintosh LCII's and a laserdisc player for use in the MIST program enabled CCAC to use the NEC funds to buy assistive devices, a CD-ROM player and software for both the laserdisc player and computers.

Support from both Apple's local office and corporate headquarters was also essential. Local Apple Computer people served on the CCAC Board and as consultants to the MIST initiative. Apple's Worldwide Disabilities Solutions Group provides professional advice on state-of-the-art products to customize Apple computers for use by people with disabilities. Through AppleLink, the company's computer network, the Empower bulletin board offers an "interactive forum" for questions and answers on the use of computer technology to improve educational opportunities for those with specific disabilities.

Selection of MIST Program Participants

Lower teacher-student ratios are a key element in the MIST project. Although biology classes have enrollments as high as 35 students, the MIST program limits class size to 20 and is team taught by a special educator and science teacher. Under the project design, up to 50 percent of the classroom enrollment can have disabilities; Paige Collins, the special education teacher, selected seven students.

Collins used teacher recommendations and her own observations based on personal experience working with each candidate to pick a group that had a variety of disabilities. She chose students with Down's Syndrome, a head injury, cerebral palsy, muscular dystrophy, learning disabilities and a rare genetic skin disorder.

The 13 other children were selected randomly, but with an effort to achieve a demographic mix of black and white, male and female, rich and poor (home addresses were used to achieve some distribution in the latter category). The school asked and obtained permission from parents to include their children in the MIST program. No family turned down the request.

Exhibit 6: NEC Foundation of America, Apple Computer, Inc.

COOPERATIVE COMPUTER USE

LESSON PLANNING	
Pre-computer Phase:	a. clear objective b. program demonstrated by teacher, including hints c. assign roles and heterogeneous groupings
Computer Phase:	a. carefully monitor work at computer b. have groups work for reasonable time frames c. directly encourage social skills
Post-computer Phase:	a. evaluate actions of the group each time b. have a time to share finished products with others
COOPERATIVE LEARNING FOR INCLUDING EXCEPTIONAL STUDENTS	
1. Use Cooperative Learning Elements: (Cooperative Learning at the Computer)	a. Positive Interdependence b. Individual Accountability c. Collaborative and Social Skills <ul style="list-style-type: none">• staying with the group• using quiet voices• taking turns• helping one another• contributing ideas• using encouraging words• listening to one another d. Group Processing
2. Assign specific roles at computer:	Timer Praiser Checker Recorder Reporter Keyboarder Summarizer Noise Monitor
3. Organize students in groups:	Teacher-selected groups Expert groups Mini-class Rotating groups Peer and cross-age tutoring Random assignment

Adapted from McDonald, Penny (1989). Cooperation at the Computer. Des Plaines, IL: Looking Glass Learning Products, Inc. Carolina Computer Access Center, 700 East Second Street, Charlotte, NC 28202

Six weeks into the school year Collins had already found that many of those who had been chosen from the general education pool also had behavioral and learning problems that probably would have gone undetected in an ordinary biology class. MIST's small enrollment and team teaching helped Collins and her science teacher colleague Betty Moore determine these special needs and use the methods originally designed for students with disabilities to improve learning opportunities for the entire class.

MIST Teaching Method

The MIST biology class is divided into three distinct phases. (For a complete description of phases, roles, social skills, and differing approaches to organizing students in groups, see Exhibit 6.) At the outset, teachers work with students to define the objectives, to understand how computer software works, and to assign the roles that students will perform in using the computer for a learning exercise (e.g., crossword puzzle quiz of science concepts).

A Sampler of Assistive Technologies

Easy Access: A software program for the Macintosh computer that relies on a software keylatch (StickyKeys), a keyboard time delay (SlowKeys) and a keyboard mouse (MouseKeys) to help people with disabilities use computers. SlowKeys can be used to change the length of time it takes for a key stroke to register on the screen and it allows for several keys to be pressed accidentally without effect. MouseKeys is a program that enables mouse movements to be controlled by pressing keys on the keyboard. The three Easy Access features can be used by people who type with a headwand, mouthstick, or single finger. Easy Access is also helpful to people who lack the manual dexterity or motor skills to use the keyboard in conventional ways.

Ke:nx (pronounced "connects"): An alternative to the standard Macintosh keyboard and mouse for people with severe disabilities (e.g., limited muscle control, limited use of hands), that enables users to choose from different input methods such as single-switch scanning, Morse code, and alternate keyboards such as the Mini, King, Unicorn and IntelliKeys (see below) Keyboards.

TouchWindow: A portable input device that attaches to the computer monitor and allows the user to access software by touching the "window." TouchWindow can be used with a stylus, finger, headwand, or other non-abrasive adaptive pointers to send commands, position the cursor, draw graphics, make selections, answer questions, and move objects on the screen. The touch screen can be placed on a flat surface or lap when removed from the monitor and used as a touch tablet or drawing pad.

IntelliKeys Keyboard (by IntelliTools): A flexible alternative keyboard with 576 membrane keys that can be grouped to form larger, custom keys. IntelliKeys comes with six preprogrammed overlays to create custom overlays for use with specific software programs. The keyboard automatically recognizes the layout due to a bar code and interacts with the computer when the user places one of these overlays on the IntelliKeys.

Small teams (4-5 students) then work to complete their assignments within a reasonable period of time. The groups work by themselves, but Moore and Collins pass from one team to another. In evaluating the positive impact of small-team exercises, they found improvement of social skills to be an important benefit. Collins and Moore observed that students with disabilities often achieve leadership positions in these exercises because many of them had more experience than their classmates with computers or assistive devices. (See box for descriptions of assistive devices.)

Time is also set aside at the end of class for discussion and sharing of materials that individual groups have developed in their computer exercises.

MIST After Two Months: An Assessment

Two months into the project Collins and Moore say that everyone in the class has benefited and that MIST has potential for enriching the mainstream biology curriculum. Collins thinks that children with disabilities have enjoyed being part of a team (in some cases in leadership positions) and that their effective participation has helped "build motivation."

Moore says the experiment has given her a greater sense of the "possibilities of inclusion": "In this environment, the students with Down's Syndrome and learning disabilities are trying harder. It is the regular students that sometimes make me angry [because they don't try as hard]."

Although Moore would like to see the MIST approach used in regular classes she warns that there may be resistance among teachers who don't know how to integrate computers with the curriculum: "There will be some instructors who think computers threaten their ability to control the classroom. With computers you have more noise and movement, and our performance evaluations are based in part on our ability to keep the kids under control. School administrators need to change this aspect of the appraisal system."

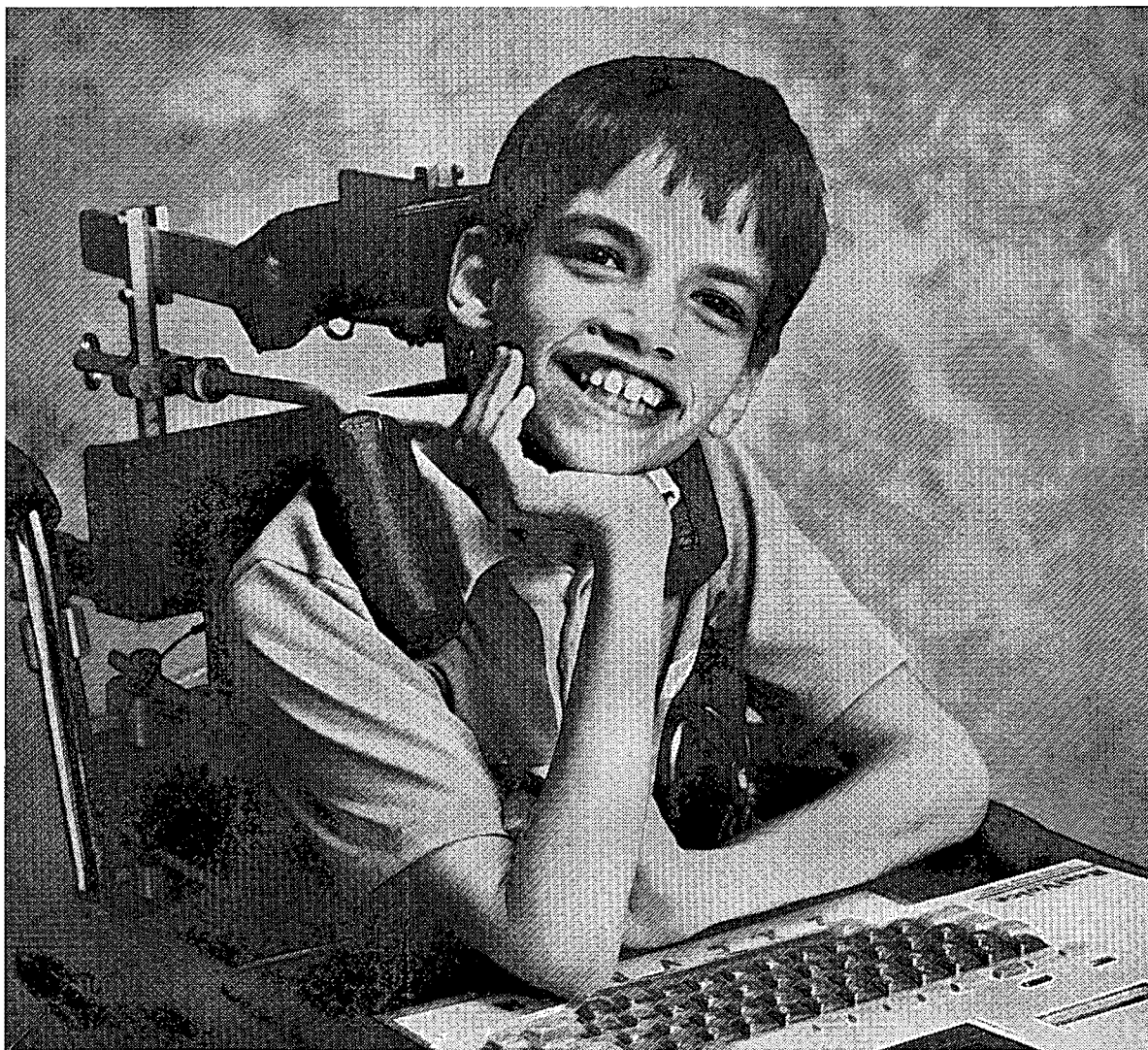
Judy Timms thinks that using MIST as a pilot project for a mixed class of disabled and non-disabled students can set an important precedent: "The support for this initiative to challenge students with disabilities can give us the political space that we need to succeed; and, in so doing, MIST can serve as an example for the advancement and the enrichment of the regular curriculum."

The positive teacher response to the program has been seconded by the general education student participants who say that they like the program and have come to respect their classmates' determination. When asked in a questionnaire if the class had helped them to "learn about a disability or a person with a disability" all of the commentators agreed with the respondent who said that his classmates with disabilities were "always capable of doing whatever we do."

Desirable though such a goal is, NEC Foundation's funding and Apple Computer's volunteer support of CCAC's MIST project has the potential to do more than use computer technology to improve science education for students with disabilities. The MIST program has

also enabled teachers to diagnose learning problems among general education participants, build the self-confidence and motivation of students with disabilities, and give mainstream students greater respect and understanding for people with disabilities.

*Computers help ordinary people
do extraordinary things.*



*They can also help extraordinary
people do ordinary things.*

When you can't talk, it's pretty hard to tell people the doctor was wrong when he said you were "severely mentally retarded."

At least, that's what Ryan Duncanwood will tell you. If you can possibly catch him between school, writing in his journal and demonstrating for civil rights.

Because, nine years after the doctor's diagnosis, Ryan found an eloquent means of expressing his intelligence. A computer. At an Alliance for Technology Access center.

Call 800-992-8111 for information on the Alliance center nearest you. And make an appointment to use our computers or nationwide support network. Or just to talk.



ALLIANCE
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TECHNOLOGY
ACCESS™

*Computers help ordinary people
do extraordinary things.*



*They can also help extraordinary
people do ordinary things.*

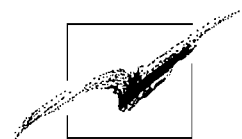
Since she had a stroke, there are certain things Norma Foster can't remember.

Like why a disability should keep her down.

And when she went to the Alliance for Technology Access, Norma found a tutor whose patience is as limitless as her goals: a personal computer.

For information about access to computers and our nationwide support network, call 800-992-8111. And if you've been told there are some things people with disabilities shouldn't do, the Alliance can give you some advice.

Forget it.



ALLIANCE
— for —
TECHNOLOGY
ACCESS™



November 1, 1993

Carol Rasco
Assistant to the President for Domestic Policy
2nd Floor, West Wing
The White House
1600 Pennsylvania Avenue
Washington, D.C. 20500

*Did you talk
to her following
our fax fr.
H.R. Clinton
office?*

Dear Carol,

I am contacting you in my capacity as Director of the Arkansas Technology Resource Center at the Arkansas Easter Seal Society. Our Center is a member of the Alliance for Technology Access (ATA) which is a network of 46 assistive technology centers, vendors, and researchers located in the United States, Virgin Islands, and Australia. All centers provide hands on experiences with assistive technology, information, and training on assistive technology to persons with disabilities, their families, other professionals who work with them, and to all others who are interested. All ATA centers are based on a collaborative effort of persons with disabilities, parents of children with disabilities, and professionals.

In addition to being selected for membership in the ATA, the Arkansas Technology Resource Center at Easter Seals was selected by the American Speech-Language-Hearing Association (ASHA) as one of 11 outstanding national sites in augmentative communication and by IBM, Inc., as a regional site for its Offering for Persons with Disabilities. This recognition is based on Arkansas Easter Seals' long time commitment to and use of assistive technology with children and adults with disabilities. The Arkansas Technology Resource Center, along with the other 45 ATA sites world-wide, serve thousands of people annually and have seen how assistive technology can assist these people in becoming more independent at home, school, and work.

The Alliance for Technology Access will be having its Institute '94 in Washington D.C. July 18 through 21, 1994. The ATA is requesting that both you and Hillary Clinton speak at the Institute, if this can be worked into your schedules. Since many of the Alliance Centers were begun and are operated by parents, the ATA is most eager to have you speak. As Hamp's mother, you share many of their concerns, and they are proud that your role as a parent of a child with disabilities has made you more aware of the battles that these families often go through. As Director of the Technology Resource Center here at Arkansas Easter Seals, I also recall that you first got me involved volunteering at Easter Seals when Hamp was just a toddler, so I am also very proud of you and hope that you will be able to speak at the Institute.

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Carol Rasco Letter
Ginny Heiple/AR Easter Seals
Page 2

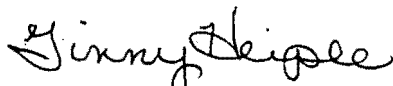
Janet Hargett, a member of the Arkansas Technology Resource Center's Board of Directors, fellow parent, and volunteer at President Clinton's Little Rock Office, is assisting me in getting these letters and information to you and the First Lady. A personal letter to you from Jacquelyn Brand, Executive Director of the Alliance for Technology Access, accompanies my letter. Jackie Brand is the mother of a teenager with cerebral palsy, who in conjunction with Apple Computer, started the Alliance for Technology Access. She is also a very dynamic women who has received national recognition for her efforts in starting the ATA. She is interested in meeting with you, and I feel that you will have a lot of common ground.

I do get to see Hamp here at Easter Seals some times. Tim and I both need to visit him soon. I am also teaching a class in Elementary Education at UALR on Saturdays and Tim works constantly trying to keep his architecture business going, so we seldom have time to do anything but work. Drew is a freshman at Washington & Lee in Virginia so we need to have as many jobs as possible. One of Drew's prize possessions in his dormitory room is his autographed picture of President Clinton that Skipper Rutherford was able to get for him. I hope that Mary Margaret is enjoying her school in Washington.

I did want you to know that as a basic middle class citizen, I am amazed that when I do go out of state, how impressed I am at how many people, when they find out that I'm from Arkansas, talk about how much they respect President Clinton for the difficult changes that he is trying to make in this country. They also respect him because he's so friendly and cares about what the common citizen thinks. I am sure that many Arkansans have experienced this, especially if they have an accent like mine which immediately makes the other person ask, "Where are you from anyway?" We are just all so lucky to have President Clinton and especially lucky to be from Arkansas at this time in history.

I hope that you will be able to speak at our Institute '94, and that you will be able to meet with Jackie Brand. She will call to set up an appointment with you. I also hope that Janet and I are able to get this letter into your hands, especially with the thousands of letters that must come to the White House each day. Yes, I will owe the next Clinton campaign a big donation and a lot of volunteer work, if you agree to do this for us! Keep up the good work. We are proud of you and the rest of the Arkansas staff members.

Sincerely,



Ginny Heiple

P.S. A packet of information on the Alliance for Technology Access and the Arkansas Technology Resource Center at Arkansas Easter Seals is being mailed to you.



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TECHNOLOGY
ACCESS

October 29, 1993

Carol Rasco
Assistant to the President for Domestic Policy
Second Floor, West Wing
The White House
1600 Pennsylvania Avenue
Washington, DC 20500

Dear Ms. Rasco:

I am writing at the suggestion of Ginny Heiple and Janet Hargett, staff and board members of the Arkansas Technology Resource Center (TRC) at the Arkansas Easter Seal Society in Little Rock. As you may know, TRC is a part of a national network of 46 community-based, consumer-driven technology resource centers known as the Alliance for Technology Access. Because you have been involved in the Little Rock program with your son, they felt you would immediately understand our efforts, which are described in the enclosed letter to Mrs. Clinton.


I have recently had the opportunity to meet with Assistant Secretary Judy Heumann and others at the Department of Education, in conjunction with a Satellite Town Meeting on technology and education hosted by Secretary Riley and Deputy Secretary Kunin. Judy suggested that I meet with you to tell you more about our efforts in communities across the country. She felt you would be particularly interested in the strong role which parents play in the Alliance, developing the skills to more effectively advocate on behalf of their children.

I would welcome the opportunity to meet with you and in particular to share with you our plans for a major training event, Institute '94, which will take place in Washington on July 18-21. At that time some 250 parents, individuals with disabilities, teachers, rehabilitation professionals, technology wizards, and others will gather to learn more about the potential of new and emerging technologies which support ever greater achievement and quality of life for children and adults with disabilities. We have invited Mrs. Clinton to keynote this meeting.

Because you are a parent who understands our purpose and the importance of family-based community, I would like to invite you to participate in our Institute next summer. Your insights both from a parental and administrative perspective would bring tremendous resources and insights to our diverse and dedicated group from across the nation.

I welcome the opportunity to talk further at a time convenient for you.

Sincerely,


Jacquelyn Brand
Executive Director