Office of Information Services Magazine 1996

University of Alabama in Huntsville

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UNISYS 2200 DECOMMISSIONED
“...end of an era.”

On January 9, 1996, the Unisys 2200/400 was officially decommissioned. The following text, written in first person by Jim McCullars, was posted to the Usenet comp.sys.unisys newsgroup. Replies were received from as far away as the U.K. and the Netherlands.

1964: The US was still mourning the loss of a president; four musicians from Liverpool were about to set the world on its ear; and the Univac Division of Sperry Rand was marketing the latest computer in the 1100 series, the Univac 1107.

There were, I understand, three 1107’s installed at public universities. One was the University of Notre Dame, the second I forget, and the third was the University of Alabama in Huntsville. This began a relationship that lasted for over 30 years, but ended today. Actually, production on our latest machine, a 2200/400, ended on December 21, 1995, but today several members of the Information Services staff marked the end of an era.

I don’t think it’s an exaggeration to claim that some of the computing that went on in Room M-10 of the Research Institute building on the UAH campus contributed directly to President Kennedy’s dream that man land on the moon before the end of the decade (indeed, it was Dr. Wernher von Braun that convinced the Alabama Legislature to fund research activities at UAH in support of the rocket research at NASA’s Marshall Space Flight Center). It’s my understanding that in the early days of EXEC-8, when much of the development was done in the field, that a lot of EXEC code was written and debugged at UAH and NASA.

Since the 1107, we have had an 1108, 1100/10, 1100/60, 1100/70, and now a 2200/400. There is a manufacturer of

(Continued on page 5)
# Directory

## Information Services
(205) 895-6347

- Computer Room: Ext. 233
- The HelpDesk: Ext. 270
- Meyer, Mike: Ext. 223
- Moore, Darlene: Ext. 222
- Wiley, Sandra: Ext. 221

## Administrative Applications

- Bailey, Joyce: Ext. 231
- Crutcher, Nellie: Ext. 256
- Dean, Dale: Ext. 227
- Dossey, Eric: Ext. 226
- Glover, Fruzzie: Ext. 241
- Greenwood, Jean: Ext. 229
- McCormick, Shirley: Ext. 237
- Newby, Chris: Ext. 247
- Perkins, Mary: Ext. 240
- Rice, Malcolm: Ext. 242
- Tanev, Wayne: Ext. 244

## Alabama Supercomputer Analyst

- Rolin, Terry: Ext. 265

## Registrar’s Office (Adjunct)

- Perkins, Jan: Ext. 234

## Support Services

- Albright, Chris: Ext. 224
- Gaines, Clifford: Ext. 276
- Gossett, Frank: Ext. 228
- Hall, Carey: Ext. 230
- Hampel, Larry: Ext. 251
- Humphrey, Earl: Ext. 232
- Looger, Joyce: Ext. 235
- Morpew, Larry: Ext. 239
- Mullican, Joe: Ext. 277
- Stanton, John: Ext. 261

## Systems & Operations

- Eiford, Becky: Ext. 272
- Lambert, Larry: Ext. 271
- McCullars, Jim: Ext. 238
- Moore, Randi: Ext. 273
- Sweeney, Barbara: Ext. 243
- White, Paula: Ext. 274
- Woodard, Jerry: Ext. 275
- Youngblood, Paul: Ext. 245

## Fax Machine
(205) 895-6643

## Contact Information

- Editor: James H. McCullars
- University of Alabama in Huntsville
- Attn: @UAH.EDU Editor
- Information Services
- Huntsville, AL 35899
- Internet: EDITOR@EMAIL.UAH.EDU

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Attn: @UAH.EDU Editor
Information Services
Huntsville, AL 35899

Internet: EDITOR@EMAIL.UAH.EDU

The University of Alabama in Huntsville
Moving Right Along

By: Malcolm R. Rice

Well, the conversion is over. We have successfully implemented the SCT SIS Plus software in record time. Thanks goes out to Eric Dossey, Wayne Tanev and Shirley McCormick for their hard work and long hours dedicated to this successful implementation and its continued support.

The old system is gone. What’s next?

Now we must concentrate on how we use this system as opposed to the old one. It is an opportune time to rethink how we receive information and how we request information. It is an opportune time to re-engineer many of our processes. What information do we really need? Is it available on-line? Do we need a printed copy? No longer can a user sit down at a terminal and press a button and receive hard copy information delivered to his/her personal printer. No longer can a programmer sit down at a keyboard and produce a report in an instant. The vastness of this system and the amount of time available to implement it precludes this ability.

We must reeducate ourselves. Information Services, as well as the users, will need time to become more familiar with this system. Where in the old in-house system you had programmers who knew the ins-and-outs of it, we must now concentrate our efforts on developing procedures and programs to extract data from a system that is fully integrated. Programs that are both concise and reusable. We have to learn what changes effect what else in the system. Are tables set correctly? How does Admissions affect Financial Aid? How does Student Records affect Student Accounts? How does the president get his numbers? How do individual departments get their information? Standard reports and programs that once were taken for granted as always being there are now having to be re-written. It is a slow process. Be patient and understanding. It is impossible to reproduce fifteen years of work in six months, but we are trying.

We must take the time to see how technology will affect the system. What we do now might very well have an affect on what we do in the future, such as Voice Response implementation. Nothing in this system is retroactive. We must be aware of this and not make decisions which would adversely affect future implementations.

We must look at new ways in which to get information to the users. FOCUS, WWW pages, Internet and FTP capabilities are just a few of the new things we must consider. Empowering the users to retrieve their own information is the goal of Information Services.

p.s. We would like to welcome Joyce Bailey to our staff.

Staff News

Information Services would like to welcome two new employees: Joyce Bailey and Nellie Crutcher are both Database Applications Analysts in the AA group. Congratulations to Frank Gossett and his wife Fran on the January 29 birth of their baby boy. Best wishes to former Computer Operator Frank McAllister, who departs to pursue a career at Intergraph Corporation.

New Phone Numbers Coming

This is just to remind everyone that the University’s telephone prefix will change from 895 to 890 some time this summer (tentative dates are July 12-14). For existing numbers, only the exchange will change; the four digits following the 895 will remain the same. For Information Services, this change will apply to the dial-in modem pool as well as our voice and fax numbers.
EMAIL to Change to UNIX

On Sunday, April 28, 1996, Information Services systems staff plan to change the EMAIL host from the OpenVMS operating system to Digital UNIX. There are several reasons for doing this, all of which are aimed at providing better service to our students, faculty, and staff.

One of the most common complaints we receive is the lack of a user-friendly interface to mail. The VMS Mail utility can be difficult to use, as can the editor that is invoked to compose messages. Since the UNIX utilities for sending mail are far more widely documented, we feel that the learning curve for new users would be far shorter in a UNIX environment. Also, we have found that Pine, a free mail interface for UNIX systems, is extremely easy to use.

Information Services is also testing an authentication server, which would allow EMAIL account holders more direct access to Internet facilities than is currently available. This server, however, cannot query an OpenVMS system to validate userid/password combinations. Hence the need to move EMAIL to a UNIX system.

While advantageous in the long run, this move will have some drawbacks. First, all existing mail and files will disappear. We do not have a method for porting any information currently on the VMS system to the UNIX system. Therefore, each user will be responsible for downloading all files (including mail files) to his own machine prior to the migration.

Another thing we have found is that some usernames will have to change. While OpenVMS supports 12-character usernames, UNIX supports only eight characters. So anyone who has a last name in excess of six characters will use a new name to log in to the new system. Although you will log in differently, all email addresses will remain the same as they are now. We will alias any old usernames to the newer, shorter username. In the meantime, we are assigning all new EMAIL users login names that will not exceed the limit on the new machine.

We will also not be able to port any passwords from the old system to the new. There is no "backdoor" method of extracting a VMS password from the password file. So new passwords will have to be assigned to everyone. We will assign random passwords and send each user (via email) his new password (and new login name, if applicable) well in advance of the change.

As previously mentioned, the change will be made on Sunday, April 28. Users should ask those with whom they correspond not to send them any email after the preceding Friday (since it will disappear Sunday whether it has been received or not), nor before Monday, April 29 (in case we experience problems and are unable to bring the system up Sunday). This is a major conversion effort, and while every effort is being made to consider all contingencies, things do happen unexpectedly.

Back Issues Available

There are a limited number of back issues of @UAH.EDU. If you would like to receive any by mail, please contact the editor at the address shown on the inside front cover of this magazine. Back issues available are: Fall/Winter 1992, Spring/Summer 1993, Fall/Winter 1993 (one copy left), Fall/Winter 1994, and Fall/Winter 1995.

The University of Alabama in Huntsville
Gail Sheehy has developed recognition by defining, and redefining, passages within life-cycles with cutesy labels as the “Turbulent Thirties” and “Flourishing Forties”. However, I am still searching for THE label to mark the recent passage within Information Services. UNISYS is no more — at least not within mainframe applications supported by our team, and we have moved on to Digital Equipment Corporation’s DEC7000.

Unlike the “Flaming Fifties”, this was one passage I awaited with enthusiasm. I had spent the prior two years maintaining administrative systems residing on two entirely different hardware environments. While each system has its pluses and minuses, each machine also has its own unique manner of logging in, of addressing the operating system, of organizing files, and of editing files.

The new functions were no more magical, or difficult, than the old — once you learned the rules to play by. Training, plus two years of experience, taught the basic rules — and the joys — of EVE, the DEC full-screen editor. And it was primarily EVE that destroyed my relationship with the UNISYS. Much of our work is done without conscious thinking (everyone has always suspected that, I’m sure). To clarify, if asked how to type the UNISYS "@RUN" statement, you had to actually think about it, but if you were sitting at a keyboard, your fingers just knew what to type. It was that type of auto-response that was killing me. After spending an hour or two working in the DEC environment with ‘Ms EVE’, my fingers would just know to input <Control-E > to get to the end of a line. Routinely, duty would call me back to the one of the old systems, and ‘Mr Ed’, who lived in the UNISYS stable, would immediately drop me out of the session if fingers auto-piloted to <Control-E>. This having to rely on conscious effort is what made me look forward to seeing the UNISYS rolled out the door.

When the day finally arrived, I was tempted to miss the ceremony. However I had cut my computer teeth at UAH and my first byte was UNIVAC. A 17 year relationship deserves a fleeting farewell. Jim McCullars did the UNISYS proud and more than a few of us were misty-eyed as the command was issued for the shut down. An era had passed, and I still haven’t thought of a cutesy name for this era.

Chicken Ripple Ice Cream

(Continued from page 4)

...programs. In this case, adding more RAM is a good idea. Too bad we can’t add some to ourselves. Not yet anyway. When you get your CRIC made, you put away you recipe book and forget the recipe. It’s the same as closing a word processing program after you’ve finished your letter and print out the hardcopy.

If you saved the letter then you’ve added it to the drivespace. DON’T put the CRIC in the recipe book. It would be quit messy.

Next time maybe the recipe for CRIC!!!

Thanks...

The following individuals contributed to this issue of @UAH.EDU: Jean Greenwood, Carey Hall, Joe Mullican, Mary Perkins, Malcolm Rice, and John Stanton. If you have a story, or story idea, please contact the @UAH.EDU editor at the address shown on the inside front cover.
Getting to Know Pine

With the upcoming change of the EMAIL machine from OpenVMS to Digital UNIX, the old VMS Mail utility will go away and be replaced by a UNIX mail utility called Pine. Pine is a freeware product developed by the University of Washington. It features an intuitive command set, plus an easy-to-use editor called Pico. Here, we will describe its use.

To enter the Pine program, simply type *pine* at the command prompt. You will then get the main screen, which looks like this:

```
PINE 3.91 MAIN MENU

? HELP          - Get help using Pine
C COMPOSE MESSAGE - Compose and send a message
I FOLDER INDEX  - View messages in current folder
L FOLDER LIST   - Select a folder to view
A ADDRESS BOOK  - Update address book
S SETUP         - Configure or update Pine
Q QUIT          - Exit the Pine program

Folder: INBOX  1 Message

Copyright 1989-1994. PINE is a trademark of the University of Washington.

[Folder "INBOX" opened with 1 message]

? Help P PrevCmd M Main Menu R ReNotes
O OTHER CMDS L [ListFldrs] N NextCmd K KBLock
```

Notice near the bottom of the screen the message, “Folder INBOX opened with 1 message”. So the first thing we probably want to do is read our mail! To do this, you can either enter the letter L (for folder List), or use the arrow keys until the line is highlighted and press <RETURN>. You will then get a list of folders you can open. The screen will look something like this:

```
PINE 3.91 FOLDER LIST

INBOX  sent-mail  saved-messages

<much of the screen deleted for brevity>

? Help M Main Menu P PrevFldr N NextFldr - PrevPage D Delete R Rename
O OTHER CMDS V [ViewFldr] Spc NextPage A Add

Folder: INBOX  1 Message
```

At the top of the screen is a list of folders, or mail boxes, that you have available to you. The INBOX, just like its name, is where incoming mail is stored. The SAVED-MESSAGES folder is where Pine will store mail you want to save (unlike the VMS Mail utility, mail is kept in your inbox, even after you read it, until you move or delete it). Another folder is called SENT-MAIL, where a copy of all your outgoing mail will be stored. Now if you highlight the INBOX and press

(Continued on page 9)
<RETURN>, you will be shown a directory of all mail in your INBOX. This will look something like:

```
PINE 3.91 FOLDER INDEX
Folder: INBOX Message 1 of 1 NEW
+ N 1 Mar 1 Jim McCullars (1,066) Test to show Pine

? Help M Main Menu P PrevMsg - PrevPage D Delete R Reply
O OTHER CMDs V [ViewMsg] N NextMsg Spc NextPage U Undelete F Forward
```

Note that the display shows all mail in the INBOX (in this case, only one message). The date, whom from, size, and subject are displayed. To display an individual message, use the up or down arrow keys to highlight the message and press <RETURN>. The screen will then look like this:

```
PINE 3.91 MESSAGE TEXT
Folder: INBOX Message 1 of 1 ALL
Date: Fri, 1 Mar 1996 13:51:40 -0600 (CST)
From: Jim McCullars <jim@uhls6.uah.edu>
To: jim@uhls6.uah.edu
Subject: Test to show Pine

This is a test of the Emergency Broadcast System. It is only a test.

BEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEP!

This is a test of the Emergency Broadcast System. This station, in voluntary cooperation with local, state, and national authorities, has developed this system to keep you informed in the event of an emergency. Had this been an actual emergency, you would have been instructed where to tune for official news and information. This station serves the Huntsville, Alabama area.

This concludes this test of the Emergency Broadcast System.

```

Now we can read our mail (and hopefully, your mail will be slightly more interesting than that shown). The menu at the bottom of the screen shows some of the commands you can execute while viewing your mail (Note the “O” command, which will show other commands you can execute). At this point, you might want to: R - Reply to the message (and Pine will go into a message entry screen, shown later); D - Delete the message (although it will not actually be expunged until you either quit Pine or change to a different folder); E - Export the message to an external file; S - Save the message to another folder (usually the SAVED-MESSAGES folder); or F - Forward the message to another email address.

Before we discuss composing, forwarding, and replying (which are all basically send operations),
Connecting to the UAH Campus Network from your CCRH Dorm Room

You can use an IBM PC, IBM PC Clone or Apple Macintosh computer to connect to the campus network from your dorm room in the Central Campus Residence Hall.

First:
Contact the Residence Hall Manager

Contact the manager of the Residence Hall requesting to have your dorm room connected to the campus network. This will insure that a port is available on the terminal server before you buy anything.

Returning Students: If you had a connection last term you will still need to do this.

Second:
Acquire Campus Network Adapter Cable:

This cable can be purchased from the UAH Bookstore. This cable runs from your 25 pin serial port of your PC to the wall plate in your dorm room. These are specially fabricated cables and are not available from computer shops. Tell the folks in the UAH Bookstore that you are looking for the cable which connects dorm rooms to the campus network.

NOTE:

IBM PC and IBM PC Clone Computers

If you have a 9 pin serial port you would like to use for this connection you will need to purchase an adapter to use with the Network Adapter Cable. These are available from the Campus Bookstore.

Apple Computers

You will also need to purchase a "Macintosh to Modem" cable if you do not already have one. These are available from local Apple retailers. They do not carry these cables at the UAH Bookstore.

Third:
Obtain and configure communications software for your computer:

Communications Software:

IBM PC and IBM PC Clone Computers

The Microsoft Windows Terminal application will work just fine. Other communications packages will work, but, this the one we can offer support.

Apple Macintosh and Power PC:

You will need to purchase a copy of the White Knight communications software. This software can be purchased from many computer software shops.

Communications Software Configuration:

(Continued on page 13)

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CCRH Connection to the Campus Network

You will need to make the following settings for whatever communications package you choose:

- **Bits Per Second:** 9600
- **Parity:** None
- **Data Bits:** 8
- **Stop Bits:** 1

See your software documentation for instructions on making these changes. See document “Configuring the Windows Terminal for use with a terminal server connection” if you would like to use the Microsoft Windows Terminal application. Your RA can also be of assistance.

Services Available through your connection

Systems Supported by UAH Information Services
Help Desk Number: 895-6347 Extension 270
Hours of Operation: Monday-Friday / 8:30 AM till 5:00 PM

Campus Email System: VMS Mail (for Internet Mail), Telnet, FTP and Kermit for downloads to your PC. An Account is required to access this system. Ask for an “Internet Account Request Form”. These are available from the Student Government Association, your Residence Hall Manager, and the Academic Department which your enrolled. Submit your completed application to the Student Government Association or the chairman of your academic department for approval.

Campus Information Gopher: UAH News and announcements, text based access to World Wide Web (will not display pictures or play sounds). Open access.

Campus UAHAXP System: Access to this system is limited to Graduate Students with special research projects, Faculty Researchers, and Administrative Staff. Contact your academic department if you need an account on this system.

Some academic departments have their own computer systems as well. Access to these systems is typically limited to students who are currently registered for classes at UAH in the academic department's programs. Consult your academic department for more information. UAH Information Services does not provide support for these systems.

Please Note:

A modem or FAX/modem are not used for this connection. If you plan to use a modem or FAX/modem you will need to connect it to the phone line in your dorm room, like you would at home. Check with your RA if you need assistance.

You cannot run WWW applications such as Mosaic or Netscape from your dorm room connection. You will need contact a third party Internet service supplier for these. There are several local providers. They are listed in the Huntsville South Central Bell Yellow Pages under Computers-Software & Services. The vendor can tell you the type modem, software and phone line you will need. Some academic departments have computer systems which provide WWW access.

Do not adjust the speed settings of your terminal server port. The wiring used for your connection will not support speeds faster than 9600 BPS. Doing so can cause your connection to go into a “hung port” status.

(Continued on page 14)
Person Responsible for machine:

<table>
<thead>
<tr>
<th>Name:</th>
</tr>
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<tbody>
<tr>
<td>Department:</td>
</tr>
<tr>
<td>Mailing Address:</td>
</tr>
<tr>
<td>E-Mail Address:</td>
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<tr>
<td>Phone Number:</td>
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</tbody>
</table>

Equipment Information:

<table>
<thead>
<tr>
<th>Machine Type:</th>
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</thead>
<tbody>
<tr>
<td>Location:</td>
</tr>
<tr>
<td>Operating System:</td>
</tr>
<tr>
<td>Ethernet Hardware:</td>
</tr>
<tr>
<td>Ethernet Address:</td>
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<tr>
<td>Network Software:</td>
</tr>
</tbody>
</table>

Node Name Information: Information Services reserves the right to assign node names. However, this request will be honored if possible.

<table>
<thead>
<tr>
<th>Internet Node Name:</th>
</tr>
</thead>
<tbody>
<tr>
<td>DecNet Node Name:</td>
</tr>
</tbody>
</table>

In making this application for computing resources I hereby consent to the monitoring of my usage of these computing resources for the purposes of detecting unauthorized use and accounting. I further understand that any unauthorized usage would make me subject to disciplinary action and/or criminal prosecution. I acknowledge that I have read the UAH Computer Security and Use Policy.

Signature of requester __________________________

I certify that this network number is being requested for the use of the department of __________________________

Signature of Budget Unit Head __________________________

Processing Information to be completed by Information Services

<table>
<thead>
<tr>
<th>IP Address:</th>
<th>DecNet Address:</th>
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<tbody>
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</table>

Date Completed: ____________
UAH Information Services

Microsoft Open License Pak
Software Request Form

Return To: UAH Information Services
MOLP Program Administrator
RI M-1-F

Available Software:
The following products are available for IBM PC compatible systems.

<table>
<thead>
<tr>
<th>Software</th>
<th>Price</th>
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<tbody>
<tr>
<td>DOS 6.22 Upgrade</td>
<td>$28.00</td>
</tr>
<tr>
<td>Windows For Workgroups</td>
<td>$28.00</td>
</tr>
<tr>
<td>Windows 95 Upgrade</td>
<td>$80.00</td>
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<tr>
<td>Office Standard</td>
<td>$48.00</td>
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<tr>
<td>Office Professional</td>
<td>$57.00</td>
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<tr>
<td>Office 95 Upgrade</td>
<td>$49.00</td>
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<tr>
<td>Office 95 Professional Upgrade</td>
<td>$59.00</td>
</tr>
<tr>
<td>Visual BASIC Professional</td>
<td>$32.00</td>
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<tr>
<td>FoxPro Professional</td>
<td>$45.00</td>
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<tr>
<td>Windows NT Advanced Server</td>
<td>$137.00</td>
</tr>
<tr>
<td>Windows NT Client Access</td>
<td>$7.00</td>
</tr>
<tr>
<td>Windows NT Workstation</td>
<td>$44.00</td>
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</tbody>
</table>

The following products are available for Macintosh systems.
Office                  $48.00

<table>
<thead>
<tr>
<th>Name of User</th>
<th>Property #</th>
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<th>Software</th>
<th>Price</th>
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This form must be signed on back to be processed!
Software

This software will be installed on the personal computers which are listed by UAH inventory number on the reverse side of this form. The undersigned user will be responsible for deleting this software before this personal computer is sold, transferred to another UAH department, or surplussed.

Documentation

Documentation will not be included under this agreement. Documentation can be purchased from the University Bookstore or other retailers.

Installation of Software (Very Important)

Information Services will contact you to schedule this installation as their schedule allows. Due to the popularity of the MOLP program please allow up to 3 weeks for installation.

Printed Name of Budget Head

Signature of Budget Head

Account Number to be charged

Date of Request

Phone Number

Department

By signing above you agree that your department will abide by the terms of this agreement and the software license certificate which will be given to the user at the time of installation.

18. The University of Alabama in Huntsville
Mailing List Update Form

Please delete my name from the Newsletter mailing list: □

Please add my name to the Newsletter mailing list: □

Please change the following information: □

Name: __________________________
Address: _________________________

________________________________

An Affirmative Action / Equal Opportunity Institution

UAH
The University of Alabama in Huntsville

The University of Alabama in Huntsville
Information Services
Huntsville, Alabama 35899

Ms. Margo Mead
Library