Sample graphs produced with PRO-MATLAB, an interactive package available on all ACF SUN servers and workstations.

Details on inside back cover.

Sample graphs produced with PRO-MATLAB, an interactive package available on all ACF SUN servers and workstations.

Details on inside back cover.
Important ACF Telephone Numbers

General Information (ACF) 998-3058
Account Information 998-3035
Computer Status (recording) 998-3433
Computer Documentation 998-3036
Faculty Microcomputer Lab 998-3044
Tape Librarian 998-3452
Applications Consultants: 998-3058
14 Washington Place 998-3399
Tisch Hall 998-3434
Education Building 998-3435
Warren Weaver Hall 998-3037
Third Ave. North Res. Hall 998-3500

Computer Operators:
14 Washington Place 998-3457
Tisch Hall 998-3409
Education Building 998-3421
Warren Weaver Hall 998-3456
Third Ave. North Res. Hall 998-3504

Dial-in Access to ACF Computers

If calling from NYU Dial For (bps)
53600* 300 - 2400
Off Campus 995-3600* 110 - 2400
777-7600* 110 - 1200
* Via NYU-NET, NYU’s campus-wide network.
(If there is no answer at this number, or if your modem connects but you do not receive the NYUMODEM» prompt, try any of the following numbers: 995-4331, 4332, or 4333.
Please use these numbers only if you experience problems with 995-3600)
† Via the NYU Computer System Selector (the MICOM Port Selector, or “switch”).

1. Warren Weaver Hall
   251 Mercer St., 3rd floor
2. Tisch Hall*
   40 W. 4th St., lower concourse
3. 14 Washington Pl.
   basement
4. Education Building*
   35 W. 4th St., second floor
5. 715 Broadway
   (IBM tapes only)
6. Third Ave. No. Residence Hall*
   75 Third Ave., basement

* ACF Access Cards required to use the microcomputers at these sites.
NYU Trolley route includes (7); weekdays, every 15 minutes during the academic year.
ACF terminals are located in (2), (3), and (5). The ACF’s Instructional Microcomputer Facilities are in (4) and (7).

New York University
Washington Square Center
Guide to ACF user work areas and other facilities

Hours at ACF Sites

<table>
<thead>
<tr>
<th>User Work Areas</th>
<th>Regular Hours</th>
<th>Holiday Hours*</th>
</tr>
</thead>
<tbody>
<tr>
<td>14 Washington Place</td>
<td>8:30 a - 11:30 p</td>
<td>8:30 a - 5:30 p</td>
</tr>
<tr>
<td>Tisch Hall</td>
<td>8:30 a - 11:30 p</td>
<td>8:30 a - 5:30 p</td>
</tr>
<tr>
<td>Education Building</td>
<td>8:30 a - 11:30 p</td>
<td>8:30 a - 5:30 p</td>
</tr>
<tr>
<td>Third Ave. North</td>
<td>12 p - 1:30 a</td>
<td>10:30 a - 5:30 p</td>
</tr>
<tr>
<td>Consultants:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14 Washington Place</td>
<td>10 a - 9 p</td>
<td>12 p - 5:30 p</td>
</tr>
<tr>
<td>Tisch Hall</td>
<td>9 a - 9 p</td>
<td>9 a - 5 p</td>
</tr>
<tr>
<td>Education Building</td>
<td>10 a - 9 p</td>
<td>10 a - 5 p</td>
</tr>
<tr>
<td>Third Ave. North</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* A final schedule will be posted via our online news and bulletin board facilities.
Notes: (1) The ACF offices in Warren Weaver Hall are closed on University holidays.
(2) Currently, the Third Avenue North Residence Hall site is available only to individuals with “ACF Access Cards”.

Notes: (1) The ACF offices in Warren Weaver Hall are closed on University holidays.
(2) Currently, the Third Avenue North Residence Hall site is available only to individuals with “ACF Access Cards”.

Notes: (1) The ACF offices in Warren Weaver Hall are closed on University holidays.
(2) Currently, the Third Avenue North Residence Hall site is available only to individuals with “ACF Access Cards.”
I want to take this opportunity to introduce myself as the new Director of the Academic Computing Facility at New York University. I'm very pleased both to be joining the ACF staff and to be here at NYU. Some of my earliest computing was done on one of NYU's first computers, an IBM Model 704, which was located on the second floor of 4 Washington Place starting in the late 1950's. That computing facility was then managed by a young mathematician named Max Goldstein, whom I have the privilege of now succeeding as Director of the ACF!

Max deserves enormous credit for his leadership and achievements. For over thirty years at NYU, he has guided the course first of scientific computing and then of all central academic computing. I know of no other academic computing director whose contribution and tenure at one institution even approaches what Max has been able to accomplish here. For many at NYU, Max is academic computing, and under his leadership it has prospered. All of us owe him substantial gratitude for the vision and leadership that he exercised and the results that he accomplished.

My background is different. I have come to NYU from Northwestern University, where I was Director of Academic Computing and Network Services for the past four years. Prior to joining Northwestern, I worked at the United Nations, where for twelve years I was involved in the transfer of information technology to developing countries. Before then, I worked with Guy Orcutt at The Urban Institute on the construction of a computer-based system for microanalytic simulation of the household sector and on some of the economic research for constructing the model, and I started the Social Science Computation Center at the Brookings Institution.

When I used NYU's IBM 704 in the late 1950's, I worked as an applied mathematician for Combustion Engineering's Nuclear Division. My formal academic training is in mathematics and economics; my experience has been primarily in the computing field; and my current interests are the application of information technology to research and education. It's an eclectic background that I hope will be useful in facing the challenges in academic computing here at NYU.

During the next several months, I need to learn a substantial amount about NYU: its goals, the strengths and orientations of its various schools, its current computing resources and expertise, and its needs for academic computing support. While Max and his staff have positioned the ACF well to respond to current and past requirements, the computing field is characterized by such a rapid rate of change that we need to be constantly thinking about and planning for the future. As the NYU community's computing needs evolve and grow, we need to be ready to make our best contribution to satisfy them.

During the next few months, with the assistance of both you and the ACF staff, I will be making an assessment of how we are positioned to help you now and how we might shape our agenda for the future so as to maintain and improve our service to you. In this connection, we will be talking with a variety of users and information service providers, and we will be soliciting opinions from many of you. With your assistance, I hope we can ensure that the ACF is oriented in the proper direction to make the best use of available resources for your benefit. We will tell you about our progress and provide you with additional information regarding new computing developments at NYU in future issues of the Newsletter.

I look forward to working with you all and to a professionally challenging and rewarding tenure here at NYU.

George Sadowsky
(sadowsky@acfcluster.nyu.edu)
Addressing Electronic Mail at NYU

Using the E-Mail Addresses in NYU's New Phone Book

Use of electronic mail (also known as "computer mail" or "E-mail") is expanding at NYU. This year, for the first time, the NYU phone book will include some 2,000 E-mail addresses provided by the ACF to NYU's Telecommunications Department.

As experienced electronic mail users may already know, the correct way to format an electronic mail address can differ, depending upon the type of computer—and, sometimes, the E-mail program—you happen to be using.

Several types of computers are used for E-mail at NYU. For consistency, the E-mail addresses in the phone book are all listed in one format—

name@computer.nyu.edu

However, you may have to put this listed address into another format.

This article will help you to use these addresses to send mail from your computer to individuals at NYU, and may in addition help you to feel more confident about the sometimes confusing task of addressing E-mail.

**Most of the Time, It's Simple**

E-mail addresses can be very straightforward. If you and the person to whom you are sending mail both use the same computer for E-mail, then that person's address is always simply his or her "username". So, if the "computer" portion of the intended recipient's E-mail address, as listed in the phone book, is identical to yours, then you can use a very simple address format, consisting of just the "name" portion of the listed address (see box at right).

In fact, this is by far the most common situation at NYU, and the rule holds true for all of the three major types of computer systems used for electronic mail at this university: VAX/VMS computers (like the ACF cluster), UNIX computers, and the IBM mainframe's VM/CMS system.

**When Different Computers Are Used for E-Mail**

When the sender and recipient use different computers for E-mail, addressing electronic mail becomes more complicated. Addresses get longer, and they have to be put into particular formats that differ according to the type of computer from which the message is being sent.

In particular, if you use the IBM VM/CMS system or the ACF cluster of VAX/VMS computers for sending mail, and are sending mail to someone who receives mail on another computer, you will have to put the addresses in the NYU phone book into another format.

While this may seem a bit daunting at first, in most cases it will really be quite simple, once you know the principles. Here is what to do.

**Sending E-Mail to An Address on Another Computer**

If you are sending
E-Mail from:
A VAX/VMS computer (like the ACF cluster — includes all NYU users)
A UNIX computer (like ACF3 or a SUN workstation)
An IBM VM/CMS system (like UCCVM)

Use this address format:

in% "name@computer.nyu.edu"

Example: in% "jonesxyz@acf3.nyu.edu"
(Please remember to include the quotemarks!)

name@computer.nyu.edu

Example: smithxyz@acf.cluster.nyu.edu
(This is the format used in the listings.)

name at computer.nyu.edu

Example: smithxyz at acf.cluster.nyu.edu

**Sending E-Mail from VAX/VMS**

If you are using a VAX/VMS computer (like the ACF cluster—which includes all users of NYU mail) and wish to send mail to someone on another
computer. You must enclose the address listed in the phone book in

in % " . . . ".

so that it looks like

in % " name@computer.nyu.edu".

(Don't forget the quotes!) Incidentally, if both your address and the recipient's address end in "nyu.edu", you can shorten this to

in % " name@computer".

Of course, if you are sending mail to someone whose E-mail address is also on the ACF cluster, then you can use the very simple address format name and omit the in%" . . . ".

Sending E-Mail from
IBM VM/CMS

If you are sending mail from an IBM VM/CMS system, like UCCVM, and the recipient receives his or her mail on another computer, then you must transform the phone book address. Instead of name@computer.nyu.edu, you must use the format

name at computer.nyu.edu.

(Note that, when sending E-mail from UCCVM to another computer, you must always include the "$nyu.edu" portion of the recipient's address.)

Again, if you are sending mail from UCCVM to someone who receives his or her mail on UCCVM, then you can use the very simple address format name.

Sending E-Mail from UNIX

If you are sending mail from a UNIX system, you can use the E-mail address exactly as listed in the phone book. If both your address and the recipient's address end in "nyu.edu", you may drop that part of the address, if you wish, and use the shortened address format, name@computer. If the same computer is used for E-mail by both sender and receiver, then you may use the simple address format, name.

An Online E-Mail Directory

The ACF maintains an online directory of electronic mail addresses on each of the three types of computer systems used for E-mail at NYU. To use it, type the command

locate lastname

replacing lastname with the last name of the person of interest. (On the IBM VM/CMS system, you will first have to type the command exec getprod tcpip.)

Adding or Correcting E-Mail Addresses

While the ACF has tried to be inclusive and as accurate as possible, we may have missed some electronic mail users or, perhaps, have included an address that is not completely up-to-date.

To add your E-mail address to the next issue of the NYU phone book, or to the current edition of the online E-Mail directory, please send E-mail to locate@acfcluster.nyu.edu. Please send corrections, if any, to the same address.

For Help with Addresses

If you encounter any problems using E-mail addresses, or if you have any questions, please contact the ACF, by sending E-mail to

locate@acfcluster.nyu.edu

or by calling 998-3058.

This information was excerpted from a more comprehensive ACF document on electronic mail at NYU. To obtain a copy, please contact the ACF's Documentation Office, at 998-3036.

—Estelle Hochberg, with Jeffrey Bary

Your E-Mail Address From Outside of NYU

If you are exchanging mail with someone who is not at NYU, he or she may reach you via the Internet. Your Internet address is exactly as listed in the telephone directory.

You can also receive E-mail via BITNET, if your E-mail address is on one of the machines listed below. The sender should use the computer address shown to the right.

Example: smithxyz@acfcluster.nyu.edu smithxyz@nyuacf

<table>
<thead>
<tr>
<th>If your listed address ends in:</th>
<th>Your BITNET address ends in:</th>
</tr>
</thead>
<tbody>
<tr>
<td>aecfcluster.nyu.edu</td>
<td>nyuacf</td>
</tr>
<tr>
<td>uce1.nyu.edu</td>
<td>nyuccf</td>
</tr>
<tr>
<td>uccvm.nyu.edu</td>
<td>nyuccvm</td>
</tr>
<tr>
<td>vx1.gba.nyu.edu</td>
<td>nybwx1</td>
</tr>
<tr>
<td>naeci0.med.nyu.edu</td>
<td>nyumed</td>
</tr>
</tbody>
</table>

Electronic mail is available to holders of accounts on all ACF computers. In addition, the ACF offers mail-only accounts to faculty, research, and administrative personnel who do not require other computing resources. Please contact the ACF Accounts Office, at 998-3035.

ACF/ NYU Newsletter, September 1990, page 3
As we go to press, plans are under way to discontinue RDMAIL and SDMAIL, a set of locally developed mail programs available on the ACF's cluster of VAX/VMS computers. Users of these programs will switch to MAIL, a DEC program which has come to be employed by most ACFcluster users.

**Affects NYUmail Users**

Users of NYUmail, the ACF's menu-driven NYU Electronic Mail System, are also affected by the change. NYUmail will now access MAIL when the "reading" and "sending" functions are selected from the system's main menu.

NYUmail is currently employed primarily by holders of the ACF's mail-only accounts.

**Using DEC MAIL, Instead**

Documentation and tutorials have been arranged to ease the transition for NYUmail and RDMAIL/SDMAIL users (see accompanying box).

MAIL offers comparable functionality to RDMAIL/SDMAIL and is sometimes faster. Its interface, commands and syntax are consistent and easy to learn. It does require a different address format for addresses that are not on the ACF cluster. (See the accompanying box, and the article on page 2 of this newsletter for more on E-mail addresses.)

**Why, and When?**

The decision to discontinue RDMAIL/SDMAIL arose because it became necessary to upgrade the ACFcluster's operating system to VMS 5.3, the current DEC-supported version of VMS. Unfortunately, RDMAIL and SDMAIL do not work under this new version of VMS. As we go to press, the ACF plans to perform the upgrade prior to the beginning of classes.

—Estelle Hochberg, with Jeffrey Bary

---

**Using the DEC MAIL Program**

The following set of basic commands will be of use to new users of electronic mail on the ACF's cluster of VAX/VMS computers, as well as to NYUmail and RDMAIL/SDMAIL users who must make the transition to the DEC MAIL program.

**Sending Mail**

SEND Starts an outgoing message. You are prompted in turn for the recipient's address (To:) and the subject of your message (Subject:). After entering your message, press CTRL-z to send, or CTRL-c to cancel.

SEND/CC Same as SEND, but requests that carbon copies be sent. (Enter these addresses in response to the prompt CC:.)

ANSWER Starts an answer to a message you are reading. Your reply is automatically addressed to the sender of the message. Otherwise the same as SEND. (Short form: ANS)

FORWARD Forwards the message you are reading. Message is automatically sent once you complete your response to the To: and Subject: prompts.

**For Further Information or Help**

The DEC MAIL program has many more useful and convenient features than are listed here. For a more complete guide, please contact the ACF's Documentation Office (Room 306 Warren Weaver Hall, 998-3036). For online help and a comprehensive list of commands, enter the command HELP at the MAIL> prompt.

Please send any questions via E-mail to COMMENT, or call Frank LoPresti (998-3398) to arrange a tutorial in the use of MAIL.
## Important Dates for ACF Users

### September

<table>
<thead>
<tr>
<th>Date</th>
<th>Event Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current</td>
<td>Individual account renewal applications are being accepted for fiscal year 1990/91.</td>
</tr>
<tr>
<td>Current - Sept. 6</td>
<td>Instructors apply for Fall 1990 Class Accounts as early as possible.</td>
</tr>
<tr>
<td>Sept 1, 2, 3*</td>
<td>(Sat., Sun., Mon.) Labor Day weekend. All sites closed</td>
</tr>
<tr>
<td>Sept 4-29</td>
<td>Students register for computer use for fall semester.</td>
</tr>
<tr>
<td>Sept 6</td>
<td>(Thurs.) ACF's summer hours end; regular fall hours resume.</td>
</tr>
<tr>
<td>Sept 6</td>
<td>(Thurs.) Fall semester begins.</td>
</tr>
<tr>
<td>Sept 20</td>
<td>(Thurs.) Rosh Hashanah.</td>
</tr>
<tr>
<td>Sept 29</td>
<td>(Sat.) Yom Kippur.</td>
</tr>
</tbody>
</table>

### October

<table>
<thead>
<tr>
<th>Date</th>
<th>Event Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oct 8</td>
<td>(Mon.) Columbus Day (observed).</td>
</tr>
</tbody>
</table>

### November

<table>
<thead>
<tr>
<th>Date</th>
<th>Event Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nov 6</td>
<td>(Tues.) Election Day.</td>
</tr>
<tr>
<td>Nov 11</td>
<td>(Sun.) Veterans' Day.</td>
</tr>
<tr>
<td>Nov 22*, 25</td>
<td>(Thurs., Sun.) Thanksgiving Day and Thanksgiving Sunday.</td>
</tr>
<tr>
<td>Nov 23*, 24</td>
<td>(Fri., Sat.) Thanksgiving Friday and Saturday.</td>
</tr>
</tbody>
</table>

### December

<table>
<thead>
<tr>
<th>Date</th>
<th>Event Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dec 10- Jan 22</td>
<td>Instructors apply for Spring 1991 Class Accounts.</td>
</tr>
<tr>
<td>Dec 10-20</td>
<td>Students who expect incompletes in fall semester courses should apply</td>
</tr>
<tr>
<td></td>
<td>for computer account extensions. (Instructor's signature required.)</td>
</tr>
<tr>
<td>Dec 12-20</td>
<td>Students with fall semester Class Accounts should archive all files</td>
</tr>
<tr>
<td></td>
<td>they wish to keep after Dec. 20.</td>
</tr>
<tr>
<td>Dec 13-20</td>
<td>(Thurs. - Thurs.) Final examinations week. regular hours, plus Sunday§</td>
</tr>
<tr>
<td>Dec 20</td>
<td>(Thurs.) Student Class Accounts issued for the fall semester expire.</td>
</tr>
<tr>
<td>Dec 21-Jan 1*</td>
<td>(Fri. - Tues.) Christmas - New Year's Recess. if: see note below*†</td>
</tr>
<tr>
<td>Dec 21-Jan 20</td>
<td>Winter Recess.</td>
</tr>
</tbody>
</table>

### January

<table>
<thead>
<tr>
<th>Date</th>
<th>Event Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan 2</td>
<td>(Wed.) Christmas - New Year's Recess ends. regular hours</td>
</tr>
<tr>
<td>Jan 21*</td>
<td>(Mon.) Dr. Martin Luther King, Jr. Day. see note below†</td>
</tr>
<tr>
<td>Jan 22</td>
<td>(Tues.) Winter Recess ends; spring semester begins. Instructors, please apply for</td>
</tr>
<tr>
<td></td>
<td>Spring 1991 Class Accounts, if you have not already done so. regular hours</td>
</tr>
</tbody>
</table>

*University holiday

**See inside front cover for the ACF's regular and holiday hours.

§Toward the end of each semester, the ACF opens one or two additional sites on Sundays to help students with their end-of-term preparations. Hours and locations to be announced.

†ACF offices in Warren Weaver Hall will be closed for the Christmas-New Year's recess (Dec. 21 - Jan. 1) and for Martin Luther King, Jr. Day (Jan. 21). As we go to press, however, hours at the ACF's user work areas during the University's Winter Recess (Dec. 21 - Jan. 20) have not as yet been put into final form. Hours will be announced via our online news, notes, and bulletin board facilities, and will be posted at ACF sites.
**ACF Tutorials**

New computer users are welcome to take part in the ACF's introductory-level "walk-in" tutorials.

To attend a "walk-in" tutorial, students or faculty must sign up about one hour in advance. Sign-up sheets are available at the operator's desk at the ACF site at which the tutorial is to be given. (Please see below for tutorials' locations.)

Faculty may also arrange tutorials specially for their classes or research groups. For IBM WYLBUR or VM/CMS, call Ivor Smith (998-3434); for all other systems, Frank LoPresti (998-3398). ACF tutorials are free of charge.

---

### MS-DOS (IBM PC)
Education Building, second floor

**Tuesdays**
- Sept 18, Oct. 16, Nov. 20, Dec. 18
- 6:30 pm

**Wednesdays**
- 4:00 pm

### SPSS/PC+ (IBM PC)
Education Building, second floor

**Thursdays**
- Sept 13, Oct. 11, Nov. 8, Dec. 13
- 6:00 pm

### Microsoft Works (PC, Mac)
Third Ave. No. Res. Hall, basement

**Wednesdays**
- 6:00 pm

### Mathematica (UNIX, Mac)
Third Ave. No. Res. Hall, basement

**Tuesdays**
- Sept. 18, Oct. 16, Nov. 13
- 6:30 pm

### Karel (Apple Macintosh)
(Students must bring a double-sided, double-density 3 1/2 inch diskette.)

Education Building, second floor:

**Mondays**
- Sept. 10, 17, 24
- 11:00 am, 1:30 pm, 3:30 pm

**Tuesdays**
- Sept. 11, 18, 25
- 11:30 am, 1:30 pm

**Wednesdays**
- Sept. 12, 19, 26
- 11:00 am, 1:30 pm, 3:30 pm

**Thursdays**
- Sept. 6, 13, 20
- 11:30 am, 1:30 pm

**Fridays**
- Sept. 7, 14, 21
- 1:00 pm

**Saturdays**
- Sept. 8, 15, 22
- 1:00 pm

**Note:** Karel tutorials are intended for students in the Computer Science Department's "A" courses. Each Karel tutorial is limited to ten students. For more information, please call Larry Mingione at 998-3436.
UNIX (VAX and SUN)
14 Washington Place, basement
Sept. 6 through Dec. 12:
Mondays
2:30 pm
Thursdays
6:30 pm
Saturdays
3:00 pm
(Saturdays at Education Building, second floor)

Electronic Mail (VMS, UNIX)
14 Washington Place, basement
Wednesdays
2:30 pm

VMS (VAX)
14 Washington Place, basement
Sept. 6 through Dec. 12:
Mondays
6:30 pm
Tuesdays
4:30 pm
Thursdays
2:30 pm
Saturdays
1:00 pm
(Saturdays at Education Building, second floor)

CAucus
14 Washington Place, basement
Wednesday
Sept. 19
2:00 pm & 6:30 pm
Saturday
Oct. 6, 27
1:00 pm
Note: Caucus participants must have a VAX/VMS account.

WYLBUR (IBM mainframe)
Room LC-8, Tisch Hall
Mondays
Sept. 17, 24, Oct. 1, 15, 22
5:30 & 6:30 pm
Thursdays
Sept. 27, Oct. 4, 11, 18,
5:30 & 6:30 pm
Introductory Lectures
Room 102, Warren Weaver Hall
Fridays
Sept. 21, 28, Oct. 5, 12
6:00 pm
Note: Participants should have Academic WYLBUR accounts.

Advanced WYLBUR: Full-Screen (IBM mainframe)
Room LC-8, Tisch Hall
Tuesdays
Sept. 18, 25, Oct. 2, 9, 16
6:00 pm
Note: Participants should be comfortable users of WYLBUR and have Academic WYLBUR accounts.

VM/CMS (IBM mainframe)
Upon request, by appointment;
call Ivor Smith at 998-3434.
ACF Microcomputer Workshops

The ACF's non-credit, half-day workshops in personal computing are open to NYU faculty, graduate students and administrative staff. This semester, these hands-on workshops for users of IBM PCs will include sessions on the popular word processing program WordPerfect and WordPerfect graphics, the spreadsheet program Lotus 1-2-3, and the database management systems, dBase IV and Paradox.

The workshops will be held at the ACF's Education Building site, 35 West Fourth Street, second floor. Morning workshops will run from 9 a.m. to 12 p.m.; afternoon workshops, from 1 p.m. to 4 p.m. In order to accommodate as many registrants as possible, it may be necessary to share computers. Note: Registration is required, but there is no longer a fee for the microcomputer workshops.

**Introduction to WordPerfect 5.1**
*Morning Workshops:*
September 14, 28
October 12, 19
November 9, 30
December 14
January 18

*Afternoon Workshops:*
September 14
January 25

**Intermediate WordPerfect**
*Afternoon Workshops:*
September 28
October 12, 19
November 9
December 14
January 18

**Advanced WordPerfect**
*Afternoon Workshops:*
October 26
November 16

**WordPerfect Graphics**
*Morning Workshops:*
October 26
January 25

*Afternoon Workshop:*
November 30

**Introduction to Lotus 1-2-3**
*Morning Workshops:*
October 5
December 7

**Intermediate Lotus 1-2-3**
*Afternoon Workshops:*
October 5
December 7

**Introduction to dBase IV**
*Morning Workshops:*
November 2
January 11

**Intermediate dBase IV**
*Afternoon Workshops:*
November 2
January 11

**Paradox**
*Morning Workshop:*
New!
November 16

**To Register for the ACF's Microcomputer Workshops:**

Please contact Henry Mullish at 998-3039 during the week of the workshop. If an answering machine responds, please leave your name, telephone number and department, and state your preference of workshop and date.
ACF Talks & Seminars*

For Instructors Using VMS at NYU (New!)
Education Building, second floor, 2:30 pm
An introduction to the special features of accounts provided to instructors and classes using the ACF’s VAX/VMS computers.

Under the ACF Course System, teachers of classes with VMS accounts have both “library” and “teacher” directories. Other features include class bulletin boards, direct instructor access to students’ computer work, and (at the request of the instructor) electronic submission of students’ completed homework. Shared electronic work spaces can also be set up, if desired, either for the entire class or for subgroups within the class.

In this new talk, Stephen Tihor will present the information needed to benefit from these very useful instructional aids.

For Instructors Using VMS
Tuesday, September 11

Topics in VMS
Education Building, second floor, 2:30 pm
This intermediate-level "mini-course", given by Stephen Tihor, will be of interest to users of the VAX/VMS systems at NYU. Topics will include the structure of the VMS system, course-structured accounts, command aliases, combining old commands into new ones, command files, batch job queuing, surviving system shutdowns, restarts, system internals, and more, depending on audience interest. (Attendees are expected to have taken an ACF introductory tutorial in VMS, given this semester at the ACF’s 14 Washington Place site.)

Supercomputer Access at NYU
Tuesday, October 23

IBM and Apple Networks for Microcomputers
Education Building, second floor, 2:30 pm
Larry Mingione will speak about two popular microcomputer networks in use at the ACF’s Education Building site, AppleShare (for Apple Macintosh) and Novell (for IBM PCs).

In this overview of the two types of networks, he will touch on some of their differences and similarities. He will describe some of the essential tasks and concerns for administrators of small microcomputer networks, and will demonstrate a few basic network management routines and commands.

Networks for Microcomputers
Tuesday, October 30

(continued on following page)

Topics in UNIX
Education Building, second floor, 2:30 pm
This two-part "mini-course" on the use of the UNIX systems at NYU will be given by Gary Rosenblum. It is an intermediate-level follow-up to the ACF's introductory UNIX tutorials, which are offered at the ACF's 14 Washington Place site.

Topics in UNIX (part I)
Tuesday, September 18

Topics in UNIX (part II)
Tuesday, September 25

Supercomputer Access at NYU
Education Building, second floor, 2:30 pm
A discussion by Ed Friedman and Jeffrey Bary of supercomputer resources available to researchers at NYU—both those at NYU (like the CONVEX, Stellar, and Silicon Graphics) and those at National Science Foundation-funded supercomputer centers, including the Cornell Theory Center, the Pittsburgh Supercomputing Center, and others.

* All are welcome. Unless otherwise indicated, speakers are ACF staff members, and reservations are not required.
NCAR Graphics
Version 3.0
Education Building, second floor, 2:30 pm
Ed Friedman will discuss this new version of NCAR, a system that has been used for a number of years by researchers at NYU for visualization of their results.

Version 3 offers improved contouring, color-fill, text-handling, and movie-making capabilities, an expanded list of supported terminals and printers, and—in the version released for UNIX systems—new support for X-Windows terminals and for workstations with an interactive windowing interface.

NCAR is available on a number of ACF computers, and the ACF now has an NCAR site license. (Please see "News and notes—Graphics" for details.)

Document Preparation with LATEX
Education Building, second floor, 2-4 pm
Given by John Kesich. TEX is a program designed to produce high-quality typeset documents. LATEX adds to TEX a collection of commands that simplify typesetting by letting the user concentrate on the structure of the text rather than on formatting commands.

The first meeting will cover the typesetting of mathematical and non-mathematical documents using LATEX, with emphasis on macros, dealing with errors and navigating through the LATEX book. In the second meeting, topics suggested by those present at the first meeting will be discussed.

LATEX (part I)
Wednesday, November 14
LATEX (part II)
Wednesday, November 21

Internetworking at NYU
Education Building, second floor, 2:30 pm
The current status and outlook for data and video communications networks using the Internet at NYU will be discussed by Bill Russell. The Internet is a network of TCP/IP networks accessible from NYU via NYU-NET, NYU's campus-wide network.

Technical Seminar for System Administrators of NYU-NET Nodes
Education Building, second floor, 2:30 pm
This talk will be of interest to people who are responsible for the configuration and management of systems software on one or more computers or departmental networks attached to NYU-NET.

Bill Russell will discuss the use and configuration of name servers, of sendmail, and of the routing daemon, and other topics of importance in this area.

The talk assumes familiarity with system management concepts, and with the use of DECnet or TCP/IP, Telnet and FTP. Note that system performance optimization will not be covered in this talk. Although only VMS- and UNIX-based hosts will be covered in detail, the general principles will be applicable to all types of systems.

System Managers' Seminar
Tuesday, November 20

Bitnet and Bitnet Services
Education Building, second floor, 2:30 pm
BITNET is an international network of over 2000 computers at universities and research centers.

In this talk, Jeffrey Bary will demonstrate many of the features of the BITNET. Topics will include BITNET’s “file servers” and “Listervers”, file transfers, connectivity and electronic mail, relays, electronic magazines, and online “white pages”.

BITNET and Bitnet Services
Tuesday, Dec. 4

Computer Graphics at the ACF
Education Building, second floor, 2:30 pm
Jeffrey Bary will present a new collection of computer-generated videos and films produced as part of research projects at NYU since the Spring of '90.

Film Showing
Tuesday, December 11
Creating Tables in WordPerfect 5.1
Education Building, second floor, 1:00 pm
Given by Henry Mullish. "Tables" is a feature of WordPerfect 5.1 (IBM PC version) that can be used with any document involving columns and tables. This very flexible and fast new feature promises to give WordPerfect documents a new look and to facilitate preparation of otherwise unwieldy documents. Reservations are required; please call Henry Mullish at 998-3039.

WordPerfect Tables
Wednesday, September 26

WordPerfect 5.1 Macros
Education Building, second floor, 1:00 pm
Henry Mullish will demonstrate how to dramatically increase productivity when working in WordPerfect 5.1 on the IBM PC, by creating macros for common tasks. No previous knowledge of macros is required, although a knowledge of WordPerfect would be helpful. Reservations are required; please call Henry Mullish at 998-3039.

WordPerfect Macros
Wednesday, October 3

WordPerfect’s “List Files” Feature Explored
Education Building, second floor, 1:00 pm
Given by Henry Mullish. The “List Files” key in the IBM PC version of WordPerfect is a rich source of useful information. For example, the key allows you to search all your documents for particular text strings — a useful capability, when you do not know the name of a file you are seeking. The copying, renaming, deleting, and printing of files — with many options — are among other capabilities offered by this key. Reservations are required; please call Henry Mullish at 998-3039.

WordPerfect’s “List Files”
Wednesday, October 10

Grammar and Style Analyzers
Education Building, second floor, 1:00 pm
Henry Mullish will discuss a number of PC programs that analyze documents for grammar and style. His talk will focus on RightWriter by RightSoft and will include a demonstration of that program. Reservations are required; please call Henry Mullish at 998-3039.

Grammar and Style Analyzers
Wednesday, October 17

PageMaker for the Apple Macintosh
Education Building, second floor, 1:00 pm
Larry Mingione will present a hands-on, introductory-level demonstration of PageMaker on the Apple Macintosh. PageMaker is a desktop publishing package that allows you to incorporate the output of word processing and graphics programs and create professional-looking results when developing newsletters, brochures, advertising flyers, and the like. (For the IBM PC version of PageMaker, please see the series beginning on November 21.)

PageMaker (Macintosh, part I)
Wednesday, October 24

PageMaker (Macintosh, part II)
Wednesday, November 14

WordPerfect’s Speller and Thesaurus
Education Building, second floor, 1:00 pm
These features of the IBM PC version of WordPerfect 5.1 will be extremely useful for all typists. The Speller is an excellent first-level spell-checker. This hands-on tutorial, conducted by Henry Mullish, will teach you how to create special lists of spell-check-acceptable words for your own professional field. Reservations are required; please call Henry Mullish at 998-3039.

WordPerfect Speller and Thesaurus
Wednesday, October 31

(continued on following page)
Using Equation Mode in WordPerfect
Education Building, second floor, 1:00 pm
Given by Henry Mullish. Equation Mode promises to make WordPerfect (IBM PC version) a major contender in the technical word processing field. This new feature of WordPerfect 5.1 helps you to type technical material in an attractive way. (No calculations are performed, though!). Reservations are required; please call Henry Mullish at 998-3039.

WordPerfect Equation Mode
Wednesday, November 7

Sorting in WordPerfect
Education Building, second floor, 1:00 pm
WordPerfect 5.1’s sorting feature will be demonstrated by Henry Mullish. This feature, which is similar to the sorting provided by database management programs, can be useful for organizing mailing lists and for various file reformatting tasks. Reservations are required; please call Henry Mullish at 998-3039.

WordPerfect Sorting
Wednesday, November 28

Foreign Symbols with WordPerfect
Education Building, second floor, 1:00 pm
A discussion by Henry Mullish of the Compose key. This feature of WordPerfect 5.1 for the IBM PC enables you to print a great variety of foreign symbols in WordPerfect documents. Reservations are required; please call Henry Mullish at 998-3039.

WordPerfect Foreign Symbols
Wednesday, December 5

PageMaker for the IBM PC
Education Building, second floor, 1:00 pm
Larry Mingione will present a mini-series of hands-on, introductory-level demonstrations of PageMaker for the IBM PC. PageMaker is a desktop publishing package that allows you to incorporate the output of word processing and graphics programs and to create professional-looking results when developing newsletters, brochures, advertising flyers, and the like. (The Apple Macintosh version of PageMaker is the subject of a separate series of demonstrations, which begins on October 24.)

PageMaker (IBM PC, part I)
Wednesday, November 21
PageMaker (IBM PC, part II)
Wednesday, December 12
PageMaker (IBM PC, part III)
Wednesday, December 19

Database Management: Introduction to INGRES
Main Building, Room 509, 10:00 am
Given by Frank LoPresti. INGRES, available on the ACF’s cluster of VAX/VMS computers, offers a full data entry package plus a relational database management system. This talk will focus on INGRES’ usefulness in data entry and handling. Specific examples will include the selection of subsets of cases or variables so as to create files for input to statistical packages, and the joining of files on a common variable so as to form new data sets.

INGRES Database Management
Friday, October 5

Data Analysis: Introduction to SPSS-X, SAS, and BMDP
Main Building, Room 509, 10:00 am
ACF staff members will provide introductory-level overviews of three popular statistical packages available at NYU. Each session will focus on a particular package and will give a brief introduction to the analyses offered by the package. Discussion will include such other topics as program structure, language syntax, data handling, and the running of programs written with the particular package of interest.

Introduction to SPSS-X
Friday, October 12
Introduction to SAS
Friday, October 19
Introduction to BMDP
Friday, October 26
Introduction to Data Entry with SPSS/PC

Main Building, Room 509, 10:00 am

Data entry programs allow the non-expert programmer to design "forms" presented on the monitor screen, for entering data (similar to those used, for example, by airline reservations clerks). This means of data entry is an important improvement over the use of text editors or word processors to enter data into files for later use with SPSS or SAS.

This talk focuses on the SPSS/PC Data Entry system. It allows a user to design data entry screens with field validity checking (e.g., range checking), and to employ screen layouts that encourage data accuracy. Further, data can be entered directly into an SPSS system file. For example, for an analysis of survey data, a data-entry screen might be designed to look like the questionnaire used to gather the data; as each datum is typed in, it would be entered directly into the corresponding variable of an SPSS system file.

SPSS Data Entry
Friday, November 2

Logistic Regression and Ordinal Logit Models: Theory and Programming

Main Building, Room 509, 10:00 am

In a series of four presentations Robert Yaffee will discuss the theory and programming of Logistic Regression and Ordinal Logit Models.

In the first session, on November 9, the theory of logistic regression will be introduced. The topics of discussion will include problems with ordinary least squares regression with binary dependent variables, the logit transformation, the interpretation of coefficients, maximum likelihood estimation, summary goodness of fit statistics, model building with main effects and interactions, screen plots for variable inclusion, along with residuals diagnostics and their implications.

The November 16th presentation will focus on the programming of logistic regression. Topics will include an introduction to procedural syntax with SPSS-X, SAS, BMDP, and LIMDEP; model building with stepwise and hierarchical logistic regression; programming the goodness of fit statistics; classification tables; and plotting and analyzing residuals.

Ordinal logit models — theory and programming — will be the focus of the remaining two talks. Topics in the November 30 talks (Ordinal Logit Models: Theory) will include logit models with ordinal dependent variables; the cumulative logit transformation and its application; the parallel slopes model; testing for the assumption of parallel slopes; interpretation of intercepts and covariates; and assessment of goodness of fit with nonparametric correlation coefficients. The December 7th talk (Ordinal Logit Models: Programming) will include a comparison of SAS PROC CATMOD, PROC LOGIST, PROC LOGISTIC, and BMDP Polychotomous Logistic Regression programs; a discussion of conditional logit options; and selected examples of each.

Logistic Regression: Theory
November 9

Logistic Regression: Programming
November 16

Ordinal Logit Models: Theory
November 30

Ordinal Logit Models: Programming
December 7

Index of ACF Talks, Tutorials and Workshops, September 1990

BITNET — p. 10
BMDP — p. 12
Caucus — p. 7
dBase IV — p. 7
Electronic Mail — p. 7
Graphics — p. 10
IBM VM/CMS — p. 7
IBM WYLBUR — p. 7
INGRES — p. 12
Karel — p. 6
LATEX — p. 10
Logistic Regression — p. 13
Lous 1-2-3 — p. 7
Mathematica — p. 6
Microsoft Works — p. 6
MS-DOS — p. 6
NCAR Graphics — p. 10
Networks — pp. 9,10
NYU-NET System Administrators — p. 10
Ordinal Logit Models — p. 13
PageMaker — pp. 11,12
Paradox — p. 7
SAS — p. 12
SPSS Data Entry — p. 13
SPSS/PC+ — p. 6
SPSS-X — p. 12
Style and Grammar Analyzers — p. 11
Supercomputers — p. 9
UNIX — p. 6,9
VAX/VMS — pp. 6,9
WordPerfect Graphics — p. 7
WordPerfect — pp. 7,11,12

ACF/ NYU Newsletter, September 1990, page 13
# ACF Tutorials, Workshops and Talks

## September

**For further information** on microcomputer workshops, please see page 8; on tutorials, page 6-7; on talks and seminars, pages 9-13. Some events require registration, and there is a fee for microcomputer workshops.

### Monday
- **Tutorials:** Karel, 1:30, 3:30 VAX/VMS, 6:30; UNIX, 2:30
- **Seminar:** VMS Instructors
- **Tutorials:** Karel, 11:30, 1:30
- **Seminar:** UNIX Topics (I)
- **Tutorials:** Karel, 11:30, 1:30
- **Seminar:** UNIX Topics (II)
- **Tutorials:** Karel, 11:30, 1:30
- **Seminar:** UNIX Topics (III)
- **Tutorials:** Karel, 11:30, 1:30
- **Seminar:** VMS Top ics (I)
- **Tutorials:** Karel, 5:30, 6:30
- **Seminar:** Supercomputer Access at NYU
- **Tutorials:** UNIX, 2:30
- **Seminar:** IBM and Apple Networks for Microcomputers

### Tuesday
- **Tutorials:** Karel, 11:30, 1:30
- **Seminar:** WYLBUR, 5:30, 6:30
- **Tutorials:** Karel, 11:30, 1:30
- **Seminar:** List Files: F5 Feature
- **Tutorials:** UNIX, 2:30
- **Seminar:** Grammar & Style Analyzers
- **Tutorials:** UNIX, 2:30
- **Seminar:** WordPerfect Speller and Thesaurus

### Wednesday
- **Tutorials:** Karel, 11:30, 1:30
- **Seminar:** WordPerfect, Intro, 9-12
- **Tutorials:** UNIX, 2:30
- **Seminar:** WordPerfect, Intermed., 1-4
- **Tutorials:** UNIX, 2:30
- **Seminar:** WordPerfect Graphics, 9-12

### Thursday
- **Tutorials:** Karel, 11:30, 1:30
- **Seminar:** WordPerfect, Intro, 9-12
- **Tutorials:** UNIX, 2:30
- **Seminar:** WordPerfect, Intermed., 1-4

### Friday
- **Tutorials:** Karel, 11:30, 1:30
- **Seminar:** WordPerfect, Intro, 9-12
- **Tutorials:** UNIX, 2:30
- **Seminar:** WordPerfect, Intermed., 1-4

## October

### Monday
- **Tutorials:** Karel, 5:30
- **Seminar:** VMS Topics (I)
- **Tutorials:** UNIX, 2:30
- **Seminar:** List Files: F5 Feature
- **Tutorials:** UNIX, 2:30
- **Seminar:** Grammar & Style Analyzers
- **Tutorials:** UNIX, 2:30
- **Seminar:** IBM and Apple Networks for Microcomputers

### Tuesday
- **Tutorials:** Karel, 5:30
- **Seminar:** VMS Topics (II)
- **Tutorials:** UNIX, 2:30
- **Seminar:** PageMaker on Macintosh (I)
- **Tutorials:** UNIX, 2:30

### Wednesday
- **Tutorials:** Karel, 5:30
- **Seminar:** VMS Topics (III)
- **Tutorials:** UNIX, 2:30
- **Seminar:** WordPerfect Speller and Thesaurus

### Thursday
- **Tutorials:** Karel, 5:30
- **Seminar:** VMS Topics (II)
- **Tutorials:** UNIX, 2:30
- **Seminar:** WordPerfect Graphics, 9-12

### Friday
- **Tutorials:** Karel, 5:30
- **Seminar:** VMS Topics (III)
- **Tutorials:** UNIX, 2:30
- **Seminar:** WordPerfect, Intro, 9-12

For further information on microcomputer workshops, please see page 8; on tutorials, page 6-7; on talks and seminars, pages 9-13. Some events require registration, and there is a fee for microcomputer workshops.
## November

<table>
<thead>
<tr>
<th>MONDAY</th>
<th>TUESDAY</th>
<th>WEDNESDAY</th>
<th>THURSDAY</th>
<th>FRIDAY</th>
</tr>
</thead>
</table>

## December

<table>
<thead>
<tr>
<th>MONDAY</th>
<th>TUESDAY</th>
<th>WEDNESDAY</th>
<th>THURSDAY</th>
<th>FRIDAY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students expecting Incompletes apply for account extensions (through Dec. 20).</td>
<td></td>
<td></td>
<td></td>
<td>Christmas - New Year's Recess begins; all ACF offices closed through Jan. 2 (see page 1)</td>
</tr>
<tr>
<td>17 Tutorial: MS-DOS, 6:30</td>
<td>18 Seminar: PageMaker on IBM PC, (III)</td>
<td>19</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>25</td>
<td>26</td>
<td>27</td>
<td>28</td>
</tr>
</tbody>
</table>

### Saturday tutorials:

Karel - Sept. 8, 15, 22, 1 pm Oct. 6, 2 pm
UNIX - Sept. 8 - Dec. 1, 3 pm VMS - Sept. 8 - Dec. 8, 1 pm Caucus - Oct. 6, 27, 1 pm
See page 6 for a complete tutorial schedule and for information on registration and locations.

### Microcomputer Workshops in January:

- Jan. 11 - dBase IV Intro, 9-12; dBase IV, Intermed., 1-4
- Jan. 18 - WordPerfect Intro, 9-12; WordPerfect, Intermed., 1-4
- Jan. 25 - WordPerfect Graphics, 9-12; WordPerfect Intro, 1-4

ACFI NYU Newsletter, September 1990, page 15
Finding, Evaluating or Authoring Courseware

New ACF Service Will Assist NYU Faculty in Selecting, Developing, and Implementing Instructional Software

This fall, the ACF begins a new program of assistance to faculty members who are interested in finding and/or developing instructional software for use in their curricula.

New Tools and Courseware

Over the past several years, interest in the use of computers in higher education curricula has burgeoned. At NYU and at universities across the country, there is now a modest but growing body of faculty-developed courseware actually in use in a wide variety of academic disciplines.

This has resulted partly from the development of new tools for courseware authoring, presentation, and use. Of particular interest are hypertext and hypermedia tools, like Apple's HyperCard.

Programs like HyperCard are substantially easier to use than courseware authoring tools of the past, and allow the author a great deal of flexibility in the integration of text, graphics, sound, video, and so on, from a variety of sources. Major vendors like IBM and Apple have actively encouraged faculty development of instructional software using these new tools—particularly courseware designed to be integrated directly into current curricula.

The popularity and widespread availability of personal computers, videocassette recorders, optical disk drives, and similar devices may also be working to stimulate interest in the integration of these and other new technologies into higher education instruction.

Help from the ACF

The goals of the ACF's new service will be to assist NYU faculty members in broadly two kinds of activities.

• Faculty members who are interested in developing courseware of their own will be offered help in learning how to use the new courseware authoring tools.

• Assistance will also be provided in the selection and evaluation of existing courseware for use in particular courses and, should suitable courseware be found, in adapting it for use in their curricula.

A lab for courseware development and trial. A small laboratory is being set up where faculty members can try out courseware and courseware-authoring tools, and work to develop courseware items. A "startup" collection of software and equipment is expected to be available by mid-September. For a partial list, please see the accompanying box.

Reference material. The ACF plans to put together a reference collection of articles, periodicals, and "how-to" books on courseware authoring. These will be available to interested faculty members and their associates.

A support network. Part of the plan is to form a kind of "people network", so as to be able to develop cross-disciplinary teams of individuals with different knowledge and skills who are interested in working on similar problems or courseware. Thus, for example, a faculty member with a concept for courseware in a particular substantive area might be paired with another individual—a faculty member or perhaps a student—with complementary technical and design skills.

Help with existing software. The ACF will work with faculty members to acquire selected courseware that has already been developed at NYU and elsewhere, with the purpose of evaluating

What's available

The following software and equipment are expected to be available by mid-September to NYU faculty interested in examining or developing courseware. (Please see accompanying article for details.)

• Hardware: Macintosh IIX, 4 Megabytes of RAM, 80-Megabyte hard disk; Apple-Color High-Resolution RGB Monitor; Pioneer 2200 laser disk player; Apple SC CD-ROM drive; a NeXT workstation (8-Megabyte memory, High-Resolution 17 inch display) connected to a NeXT fileserver (with 16 megabytes of memory, a 660-Megabyte hard disk, and a read/write removable 256-Megabyte optical disk drive).

• Software: Macromind Director, Silicon Beach SuperCard, Swivel 3D, Aldus Persuasion, PixelPaint Professional, Adobe Photoshop, Digital Darkroom, Microsoft PowerPoint, Farallon MacRecorder Sound System.
New Colloquia on Courseware Are Planned for 1990/91

Popular Series on Computers in College Curricula Will Continue at NYU

A fresh series of colloquia on faculty-developed college-level instructional software is being planned for this academic year at NYU.

This year's series will bring an interesting new selection of speakers from universities around the country to discuss and demonstrate courseware in the fields of anthropology, biology, computer science, economics, English, mathematics, music, and outer space.

As we go to press, six sessions are being scheduled for the fall semester. In addition, two "hands-on" HyperCard training sessions—one introductory and one intermediate—will be conducted by instructors provided by Apple Computers, Inc. The HyperCard workshops, like the colloquia, will be open to all NYU faculty and administrators, but reservations will be required, to ensure that each participant has a Macintosh to work with.

Further information will become available in the coming weeks. Fliers mailed in September to faculty and administrators will detail topics, times and locations of the Fall '90 series of colloquia and workshops.

The colloquia on Computers in the College Classroom, initiated in the 1989/90 academic year, have received an enthusiastic response from the NYU academic and administrative community. Past colloquia have included presentations of courseware providing instruction in language, psychology, ethology, western civilization, data analysis, medical education, ethics, visual perception, and demography. An introductory-level HyperCard training session and a demonstration of a multi-media lab were also offered.

Like last year's colloquia, the 1990/91 series will be sponsored jointly by the Faculty of Arts and Science, the Academic Computing Facility, and the University Computer Center, with support from the IBM Corporation and Apple Computers, Inc.

—Estelle Hochberg

Courseware Now Available through ACF's Wisc-Ware Membership

On behalf of NYU, the ACF has joined Wisc-Ware, a consortium of educational institutions that distributes faculty-developed software for research and instruction.

As a result, NYU faculty members can now obtain a variety of instructional software packages at comparatively low prices, or can submit their courseware to Wisc-Ware for distribution at other universities.

Some 300 items are currently available, dealing with subjects in the arts and humanities, business and economics, education, engineering and computer science, health sciences, life sciences, philosophy, physical sciences, psychology, and the social sciences. All Wisc-Ware software runs on IBM-type personal computers. Individual, class, and campus-wide site licenses are available at reasonable rates.

A Wisc-Ware catalog and database of software "demos" are available for examination by NYU faculty at the ACF's Faculty Microcomputer Lab (Room 313 Warren Weaver Hall; noon to 8 p.m., Mondays through Fridays). Please call ahead for an appointment (998-3044) to ensure the availability of the software and a staff member to help you.

If you are an NYU faculty member who is interested in submitting courseware to Wisc-Ware, please contact the ACF Faculty Micro Lab for the appropriate forms and instructions.

Wisc-Ware, which is based at the University of Wisconsin, has over 140 member institutions.

—Estelle Hochberg
EDUCOM '90 Is Coming Soon

Conference on Computers in Higher Education to Take Place in October

EDUCOM's annual fall conference on information technology in higher education will take place this year in Atlanta, Georgia on October 14-17. It will focus on the theme "Preparing for the Renaissance: Computing and Communications for Technology, Science, and the Arts."

A variety of sessions are planned, and the winners of the 1990 EDUCOM/NCRPTAL Higher Education Software Awards Program and of the new IBM-funded Louis Robinson Award will be announced. The EDUCOM/NCRPTAL awards were established in 1987 to improve the quality of software developed for higher education and, like the Louis Robinson award, to promote the effective use of computer technology in teaching and learning.

The EDUCOM '90 Software Fair will again feature major university-designed software selections, as well as award winning software and applications from the EDUCOM/NCRPTAL Software Awards Program. Fifty-five EDUCOM Corporate Associates will demonstrate their products and services.

The Educational Uses of Information Technology (EUIT) Program, formerly the EDUCOM Software Initiative (ESI), is holding its fifth annual pre-Conference Working Session on October 13-14 in Atlanta, just prior to EDUCOM '90.

The Educators' Distance Learning Consortium (EDLC) will hold its first national meeting jointly with EDUCOM on October 14 and 15. Sessions will focus on national computer networking developments affecting education, examples of distance learning for professional development and graduate education, and a review of computer applications for teachers and students that improve mathematics and science education in elementary and secondary schools.

The conference is being hosted by the Georgia Institute of Technology. For promotional brochures, registration forms, and further information, please call (609) 520-3340, or send electronic mail to conf@educom.bitnet.

---from an EDUCOM release---

Facilitating International Assignments

Getting There Before You Go There?

Professors Roger Dunbar and Allan Bird, of the Management and International Business departments of NYU's Stern School of Business, recently obtained a grant from the Department of Education to develop computer simulations that will help acquaint people with issues arising from living and working overseas.

The simulations, which will be run in an Apple Macintosh environment, will give users opportunities to explore issues likely to arise as a result of accepting an international assignment, to develop skills that might help them successfully handle such assignments, and to increase their awareness of some of the personal implications of living and working abroad.

The scenarios to be developed will focus on issues surrounding cultural adjustment, career management, personal and family adjustment, security and safety in international travel, handling increased levels of stress, and utilizing leisure time.

The program is expected to offer many interesting opportunities for feedback, training, and further research. It is being developed with HyperCard and a Macintosh IIcx, but will run on smaller machines.

For further information, please contact either Roger Dunbar (998-4124) or Allan Bird (285-8917).

(Professor Dunbar was a participant in a HyperCard training session offered in conjunction with last year's Colloquia on Computers in the College Classroom. New colloquia and training sessions are planned for this year; please see page 17.)
News and notes

Microcomputers

More PC's at the ACF, and A New Micro Facility

Fall '90 brings more PC's to the ACF's instructional microcomputer facility in the Education Building, and a new instructional micro facility in the ACF's Tisch Hall site.

More Micros at the Education Building

As we go to press, twenty-five new IBM PS/2 Model 70's have been ordered for the ACF's Education Building site and are expected to be in place by mid-September.

The Model 70's are faster machines, offering more memory, bigger disks, and faster processors. They will be particularly useful to students in the first four courses of the Computer Science Department curriculum, whose coursework and assignments require greater resources.

There will be some 63 IBM-type personal computers, 18 Apple Macintoshes, and three laser printers at the ACF's Education Building facility when the fall semester opens. The Mac's are connected to a Macintosh server, and the PC's to a PC-based server. All machines are networked locally and connected to NYU-NET, so that servers at the ACF's other instructional microcomputer facilities can also be reached.

At Tisch Hall

The upgrading of the ACF's Tisch Hall site to the ACF's third and newest instructional microcomputer facility is under way.

The site will reopen in time for the first week of classes, but about one-third of it has had to be closed off due to the construction of a new building, just adjacent to Tisch Hall, for the Stern School of Business.

As we go to press, the ACF has begun the process of replacing the terminals in the remainder of the Tisch Hall facility with personal computers. About 45 IBM PS/2's (Models 55 and 30) will be installed in Room LC-8 by the opening of the fall semester. About 15 terminals will remain.

The PC's will be networked locally and connected to NYU-NET, NYU's campus-wide network. Users of the PC's will be able to access software and files on a PC server at the site. ACF mainframes and minicomputers, and such other NYU-NET services as BobCat, Bobst Library's online catalog, will also be available from these PC's.

Due to the unexpected loss of space at Tisch Hall, resulting from changes in construction plans, users of WYLBUR and selected VAX/VMS users— at least for the beginning of the semester— will be given priority at the site. Means of allowing access by personal computer users during hours of lighter usage are being considered. For an update on this, please contact the ACF consultants in Tisch Hall (998-3434) or call the ACF information line at 998-3058.

Space for additional personal computers in the ACF's Tisch Hall site will become available upon the completion of the Stern School's new building.

Numeric Coprocessors

Many of the new machines will be equipped with numeric coprocessors. These increase the speed of programs that use floating point arithmetic. Examples are the statistics and mathematics packages SPSS/PC and MATLAB.

In addition, the Model 70's offer opportunities for further resource expansion and for the running of even more demanding applications than those currently being offered on our instructional microcomputer servers.

What's Available Where

With the new machines added for the fall semester, there will be over 200 personal computers and workstations at the ACF's instructional microcomputer facilities at the Education Building, in the Third Avenue North Residence Hall, and in Tisch Hall.

—Estelle Hochberg

Software Distributed at the ACF's Faculty Micro Lab (Update)

Qualified members of the NYU community may obtain the following microcomputer software packages at the ACF's Faculty Microcomputer Lab.

There is no fee unless otherwise indicated. Included below are the current version numbers of each software item.

- **Disinfectant 2.1** (for Macintosh).
- **Kermit 0.98** (62) (for Mac) and 3.01 (IBM-PC). Please bring 1 blank diskette.
- **Macintosh Operating System 6.0.5** (for distribution to owners of older versions of the Mac system). Please bring your copy of the Mac operating system and 4 blank diskettes. No documentation is available.
- **Hypercard 2.0** (for distribution to owners of older versions of Hypercard). No documentation is available. Please bring your original Hypercard disk and three blank disks.

(continued on following page)
• ProComm 2.4.2 (for IBM-PC). "Shareware" version; Datastorm Technologies, Inc. requires a registration fee for its continued use. Please bring 1 blank diskette.
• SAS 6.03 (for IBM-PC). Please bring 62 blank diskettes.
• SPSS/PC+ 3.1 (for IBM-PC). Please bring 16 blank diskettes to receive both the base package and the Advanced Statistics module. The fees are $100 for the base package, $50 for the Advanced Statistics module, and $50 for the Data Entry module (three blank diskettes required).
• SCAN 1.7V64 (virus detector for the IBM PC).

From the ACF's Software Archive: For Macintoshes

The following utilities in the ACF's archive of shareware and public domain software are for use with Apple Macintosh computers. Please see item below for information on how to obtain copies for your own use. (Software for IBM PC users is listed in box on facing page.)

<table>
<thead>
<tr>
<th>Title</th>
<th>Function</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disinfectant2.1</td>
<td>Anti-Virus</td>
<td>John Norstad's virus preventer/remover, Ver.2.0</td>
</tr>
<tr>
<td>Gatekeeper111</td>
<td>Anti-Virus</td>
<td>Chris Johnson's utility prevents virus infections, Ver.1.1.1</td>
</tr>
<tr>
<td>Gatekeeperaid101</td>
<td>Anti-Virus</td>
<td>Chris Johnson's utility prevents WDEF infections, Ver.1.0.1</td>
</tr>
<tr>
<td>Kermit98</td>
<td>Communications</td>
<td>Macintosh Kermit, Ver.0.98</td>
</tr>
<tr>
<td>NCSA232</td>
<td>Networking</td>
<td>NCSA/BYU Telnet, Ver.2.32</td>
</tr>
<tr>
<td>Publicfolder10</td>
<td>Networking</td>
<td>Claris' Public Folder, Ver.1.0</td>
</tr>
<tr>
<td>Responder111</td>
<td>Networking</td>
<td>AppleTalk Responder, Ver.1.1, Raymond Lau's Stuffit archiver/dearchiver, Ver.1.5.1</td>
</tr>
<tr>
<td>Stuffit151</td>
<td>Archiver</td>
<td></td>
</tr>
<tr>
<td>TeachText</td>
<td>Text Editor</td>
<td>Simple Text editor from Apple, Ver.1.1</td>
</tr>
<tr>
<td>Vaccine101</td>
<td>Anti-Virus</td>
<td>CE Software's Vaccine, Ver.1.0.1</td>
</tr>
<tr>
<td>Virus Encyclopedia</td>
<td>Anti-Virus</td>
<td>All about Mac Viruses</td>
</tr>
</tbody>
</table>

The ACF's Faculty Microcomputer Laboratory was established in 1984 as a place where NYU faculty, research and administrative staff can learn about different kinds of microcomputer hardware and software, and obtain expert advice in the selection and use of personal computers, workstations, departmental networks, and related products.

The Lab is located in Room 316 Warren Weaver Hall. Visits to the Lab are by appointment. Please call 998-3044 to arrange a time. Hours, between noon and 8 p.m., Mondays through Fridays, are usually available.

—Reported by Gary Chapman

Shareware and Public Domain Software Available From the ACF

The ACF's Software Archive is an easy-to-access and virus-free collection of selected shareware and public domain software for IBM PC's and Apple Macintoshes. Emphasis is on popular utilities that are likely to be of use to a large number of microcomputer users at NYU. (For a list of current holdings, please see the boxes on this page and the facing page.)

Software can be downloaded from the ACF's INFO system (a copy of Kermit is required). Enter CONNECT INFO at the NYU-NET prompt, select DOWNLOADS from INFO's main menu, and follow the directions.

Copies can also be obtained on floppy disk from the ACF's Faculty Micro Lab. Please call 998-3044 for an appointment and for information on the number of blank floppies to bring.

The ACF urges you to register any shareware that you acquire with the author and pay any monetary contribution that he or she recommends.

For additional information on the ACF's Software Archive, please see the article in the March '90 issue of this newsletter.

Virus Protection for Micro Software and Data

Another reminder for faculty and administrative users of microcomputers: the ACF's Faculty Microcomputer Lab staff will check your Macintosh and PC disks for viruses and will provide you, free of charge, with copies of Disinfectant for the Macintosh, and SCAN for the IBM PC. (Please bring a blank disk.)

Please call the Lab at 998-3044 to arrange an appointment. As a rule, disks that contain only data do not need to be checked.
From the ACF's Software Archive: For IBM PC's

The ACF's archive of shareware and public domain software currently offers the following items for use with IBM PC's. For instructions on obtaining copies for your own use, please see the item on the facing page. (Software for Apple Macintosh users is listed in box on facing page.)

<table>
<thead>
<tr>
<th>Title</th>
<th>Function</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARC</td>
<td>Archiver</td>
<td>ARC archive utility, Ver. 5.20 from SEA</td>
</tr>
<tr>
<td>PKZIP110</td>
<td>Archiver</td>
<td>PKZIP/PKUNZIP archive utility, Ver. 1.1</td>
</tr>
<tr>
<td>CLEANP64</td>
<td>Anti-Virus</td>
<td>CLEAN-UP Virus Remover by John McAfee</td>
</tr>
<tr>
<td>KERM3.01</td>
<td>Communications</td>
<td>MS-DOS Kermit, Ver. 3.01</td>
</tr>
<tr>
<td>NETSCAN64</td>
<td>Anti-Virus</td>
<td>NETSCAN (VIRUSCAN for Networks) by John McAfee</td>
</tr>
<tr>
<td>SCANV64</td>
<td>Anti-Virus</td>
<td>VIRUSCAN by John McAfee</td>
</tr>
<tr>
<td>TED</td>
<td>Text Editor</td>
<td>Tiny EDitor, Ver. 1.0, from PC Magazine (Ziff-Davis)</td>
</tr>
<tr>
<td>TN3270</td>
<td>Networking</td>
<td>TN3270 Ver. 2.2TN from NCSA/Clarkson University</td>
</tr>
<tr>
<td>VSHIELD64</td>
<td>Anti-Virus</td>
<td>VIRUSCAN (TSR) by John McAfee</td>
</tr>
</tbody>
</table>

Students who wish to have their disks checked for viruses may bring them to the ACF's instructional microcomputer facilities in the Education Building and the Third Avenue North Residence Hall, where Disinfectant and SCAN are also distributed to students who bring blank disks.

The following recommendations are repeated for your convenience from the Fall '89 issue of this newsletter.

- Make frequent backups of your data, and use several sets of backup disks in rotation.
- Write-protect your floppy disks, whenever possible. Do not lend program disks.
- Use caution when downloading from bulletin boards. Do not use illegal copies of software which have had their copy-protection removed.
- If you have a hard disk, never boot from a floppy. If you do not have a hard disk, write-protect your floppy boot disk and never boot off of a different floppy. Do not let other people use your microcomputer.

WordPerfect's New and Useful Tables Feature

WordPerfect 5.1, the latest version of the popular word processing program for the IBM PC, is gaining wide acceptance at NYU.

This new version can be described as a substantial upgrade, particularly in view of two new features which it offers: Tables and Equations mode. We shall discuss Tables in this issue and leave the Equation mode feature for the next issue.

What It Is (and Isn't)

The Tables feature can be used in a great variety of documents, especially those that require columns. It does not replace WordPerfect's Newsletter feature, which converts a regular document to column format so that it may be printed in the multiple-column format common in newspapers; that feature remains intact. Rather, the new Tables feature is a distinct asset to the user who has to type column-based documents such as schedules, itineraries, forms, and so on.

Tables also has spreadsheet features which people familiar with spreadsheets will appreciate. You can, for example, devise formulas which are then copied, saving you the time it would take to re-create them. Tables offers the standard collection of spreadsheet functions.

Creating a Table

To create a table, place the cursor at the location where the table is to appear and press Alt-F7. Select "Create" and decide upon the number of columns and rows you want. Let us suppose you want a table consisting of four columns and five rows. (Columns are always specified first in the Tables feature.) The default is three columns. Simply type 4 to override the default value of 3 and press Enter. The default number of rows is 1. So type 5 instead of the default 1 and again press Enter.

Believe it or not, that's all there is to it. Right there in front of your eyes will be displayed an empty table consisting of four columns and five rows, leaving you in Table Edit mode, with a menu at the bottom of the screen.

(continued on following page)
In this mode you cannot type textual information into the table but you can alter the shape of the table, change the kind of lines it displays, shade specific rows or columns for emphasis, and include formulas.

**Entering Text**

In order to type text, you have to exit Tables Edit mode by pressing the Exit key, F7. To move from cell to cell you can press the Tab key. Once the cursor is located in the cell of your choice (notice that the cell address appears in the Status line) you can type in the ordinary way, using all the editing techniques available such as boldface, underline, different fonts, etc. If the text becomes too wide for the cell, WordPerfect wraps the text to the next line as if the cell were a single page. It will then automatically expand the height of the entire row to accommodate the text in that cell.

**Modifying a Table**

You can readily modify an existing table, even if you have already entered text into the table. You can narrow or widen a column, join cells, split cells, change the nature of the lines or even remove the lines altogether, shade cells and perform calculations on numbers by means of formulas based on the contents of particular cells.

If you haven't yet upgraded to 5.1, you may well be missing out on a remarkably useful feature. We shall include Tables in the ACF's WordPerfect workshops which we give on a regular basis, and on September 26 we shall devote the entire seminar to this feature.

—Henry Mullish

**Mainframes and Minis**

**Update for Users of the ACF’s IBM Mainframe**

Several statistical packages have been updated recently on the ACF’s IBM/MVS (WYLBUR) system. On IBM/XA (CMS), there are two new language compilers, and a procedure that simplifies transferring files from CMS to WYLBUR.

**For IBM WYLBUR Users**

A new version of SAS, Release 6.06, has just been installed. There are some major differences between the previous and present versions, and in some instances upward compatibility between the two versions is not complete. SAS 6.06 is now the default version. Version 5.18 can be accessed with the command //EXEC SAS#. A more detailed treatment of the changes will appear in the next issue of the newsletter. Meanwhile, if you run into trouble, please contact the ACF statistical consultants in Room LC-7 Tisch Hall.

BMDP has been upgraded to the 1990 release. Two new programs have been added: BMDPLE Maximum Likelihood Estimation and BMDPPR Polychotomous Logistic Regression. BMDPCA has been augmented to handle Multiple Correspondence Analysis, i.e., it can now accommodate three or more categorical variables rather than just two. These changes were described more fully in the May 1990 issue of this newsletter, when the installation of BMDP 1990 on the ACF’s cluster of VAX/VMS computers was announced. Copies are available from the ACF’s Documentation Office, Room 306 Warren Weaver Hall.

Version 3.0 of EQS is now available. Many new statistics covering the adequacy of estimation and of fit have been added, as well as measures of univariate and multivariate kurtosis. Procedures have been added for performing bootstrap and jackknife sampling, and for studying the behavior of modelling statistics under various conditions such as variations in sample size or violation

Henry Mullish conducts the ACF’s microcomputer workshops and will, in addition, be giving a series of seminars this semester in WordPerfect (see pages 8 and 11).

ACF/ NYU Newsletter, September 1990, page 22
of distributional assumptions. Also new is the capability to handle multiple population models.

For Users of IBM VM/XA (CMS)

Two new language compilers have been installed on CMS: VS Pascal and C/370. Information about Pascal may be found in the VS Pascal Application Programming Guide, SC26-4319. IBM's C compiler is described in IBM C/370 User's Guide, SC26-1264.

Transferring files from CMS to MVS

A new exec, PUTWYL, has been installed to simplify the process of moving data from your CMS account to your WYLBUR account. To use it, enter the following command on CMS:

```
PUTWYL filename fn ft fm
```

where `filename` is the low-order Wylbur filename. As an example, `PUTWYL DATA MYDATA DAT A` will copy CMS file `MYDATA DAT A` and create on WYLBUR the catalogued datafile `WYL.gg.uuu.DATA`.

Reminder: Transfer of data from WYLBUR to CMS is accomplished from CMS by giving the command GETMVS.

—Bert Holland

Networks

Medical Center to be Linked to Dental Center, Washington Square via Fiber-Optic Cable

NYU Medical Center has begun a project which, when finished, will link the Medical Center to Bellevue, the Dental Center, and the Washington Square campus via a fiber-optic cable. The connection will provide high-speed data transmission and the potential for high-volume telecommunications links between these sites.

A much slower link between NYU-NET and the Medical Center has existed for some time, but became inadequate because of the demand for higher-speed connections and greater volume. In the short term, the new cable will allow this Ethernet link to be upgraded to ten megabits per second, permitting efficient data transfer for current and future users. Additionally, it will provide bandwidth for NYU-wide information services for all Medical Center faculty.

In the future, it will provide access from the Medical Center's new Skirball Institute building to all parts of the Medical Center campus, including clinical departments located in Bellevue, and will provide fibers for very high speed data interconnections, particularly valuable for digital image transfer.

The new cable will also provide a high-speed path through NYU-NET to NSFNet, the National Science Foundation network. (NYU-NET connects to NSFNet via regional networks like JVNCnet and NYSERnet/PSInc)

—Ross Smith, Coordinator, NYUMC Network Project

Graphics

NCAR Version 3 Now Widely Available at the ACF

Version 3.0 of the NCAR Graphics Software is now available on the ACFs cluster of VAX/VMS computers and on the following UNIX machines: ACF3 (a DECstation), ACF9 and ACF14 (SUN4 servers), ACF15 (a SUN3 server), ACF17 (a Stardent Stellar mini-super with an advanced graphics subsystem), and GWS3/4 (two Silicon Graphics IRIS workstations).

New features. This release is the most recent version of the graphics package from the National Center for Atmospheric Research (NCAR). It contains a completely new contouring package called CONPACK, as well as enhanced color capability. (For more information on NCAR Version 3.0, please see the article in the March 1990 issue of the ACF newsletter.)

An NCAR site license. The ACF has arranged with NCAR for an NYU site-license for this software. As a consequence, NCAR Version 3 is now also

(continued on following page)
ACF’s Visualization Center Gets A Second IRIS

The ACF is pleased to announce that its graphics facilities have been enhanced with the addition of a second Silicon Graphics IRIS workstation to the ACF’s Visualization Center.

The system is an IRIS 4D/25G with 16 megabytes of physical memory, a 780-megabyte disk, and full graphics capability. The operating system on this machine is IRIX, which is a variant of UNIX System V with BSD enhancements.

The new machine will be closely coupled with the ACF’s IRIS 4D/80GT, so that users will be able to utilize the two machines as if they were one system. This coupling of the two computers is a particularly important enhancement, because it will provide users of the ACF’s Visualization Center with two graphics consoles sharing common databases and applications software.

The ACF’s new IRIS 4D/25G, also known as a Personal IRIS, has already provided NYU researchers and students in Biology, Chemistry, Mathematics and Computer Science with improved access to these powerful tools.

—Ed Friedman

Data Base Archive

Update on the ACF’s Data Base Archive

The following data sets have been received by the ACF’s Data Base Archive (DBA) since our last report in the March 1990 issue of this newsletter. They are available for use by the NYU academic community. The ICPSR numbers, included below for your convenience, are reference numbers assigned by the Inter-University Consortium for Political and Social Research, of which the ACF is a member.

- High School and Beyond 1980: A Longitudinal Survey of Students in the United States
- Census of Population and Housing, 1980: Summary Tape File 1B, New York State file only.
- Census of Population, 1940 and 1950: United States

The codebooks for these data sets have been deposited in the Social Science Section of Bobst Library (seventh floor).

The ACF’s DBA acquires and stores data files for instructional and research purposes at NYU. Assistance in the use of these data files is provided by DBA staff to NYU faculty, researchers and graduate students.

The DBA currently holds and catalogs nearly 700 studies represented by over 2000 data files. More are being acquired continually at the request of researchers at NYU. For additional information on the DBA’s services, or for help in making use of them, please contact ACF consultants Bob Yaffee (998-3402) or Bert Holland (998-3401).

—Bert Holland

Reminders

Student Registration for Computer Use

Students whose courses are associated with Class Accounts on the VAX/VMS, and VAX/UNIX systems must...
register for computer use. (Class Accounts on the IBM mainframe computer are obtained for students by their instructor.)

To register, students must bring their printed SIS-generated list of Confirmed Scheduled Classes and a valid NYU I.D. to the 14 Washington Place operator’s desk, from Sept. 4 to Sept. 29 during the following hours:
Mon. - Fri. 9 am - 11 pm.

Students in courses using the ACF’s Macintosh and IBM personal computers must obtain a Microcomputer Access Card. To do so, please bring your SIS-generated list of Confirmed Scheduled Classes and your valid NYU I.D. card to the operator’s desk at the Education Building site.

**Newsletter Credits**

Special contributions to this issue were made by the following members of the ACF staff and associates (in alphabetical order): C. J. Anastasio, Jeffrey Bary, Gary Chapman, Ed Franceschini, Ed Friedman, Bert Holland, Henry Mullish, John Oh, Stephen Rittersporn, Bill Russell, George Sadowsky, and Ross Smith. Photograph on page 1 by Jeffrey Bary. Additional production assistance provided by Emma Arakelyan, Cynthia Mar, and Rita Santiago.

<table>
<thead>
<tr>
<th>Role</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Newsletter Editor</td>
<td>Estelle Hochberg</td>
</tr>
<tr>
<td>Assistant Editors</td>
<td>John Quinan, Lu Ratunil</td>
</tr>
</tbody>
</table>

This issue was prepared on Apple Macintosh SE microcomputers, using Aldus PageMaker and Adobe Illustrator (for special type treatment).

<table>
<thead>
<tr>
<th>Role</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Page design and</td>
<td>Ron Casella, John Quinan, Lu Ratunil</td>
</tr>
<tr>
<td>Macintosh layout</td>
<td>Valerie Sauers of NYU’s Advertising and Publication Services</td>
</tr>
</tbody>
</table>

---

**Instructors: Please Apply For Fall Class Accounts Now**

Instructors, your Fall 1990 classes will each need a computer Class Account if their coursework will require use of the ACF’s VAX/VMS, VAX/UNIX, or IBM computer systems. The Academic Computing Facility is accepting applications for Fall 1990 Class Accounts now through the beginning of the Fall 1990 semester. Please apply as early as possible to avoid the beginning-of-term “crush”.

To apply for a Class Account, you must file form #ACF772. A separate application must be submitted for each class and for each type of ACF computer system that you would like your class to use. Each application must include a signature from the department's budget office, as well as a budget number against which the account is to be charged. Blank forms can be picked up in the ACF’s Accounts Office (Room 305 Warren Weaver Hall), where your completed form can also be filed. Call 998-3030 if you need further information.

The ACF Accounts Office cannot establish an account until they have received a properly completed form #ACF772. Once the account is established, your students will be able to register for use of their Class Accounts. Please do not collect your students' class cards or their computer-generated SIS-system course lists until they have registered for computer use. Your students will need their class cards or SIS lists in order to register.

Reminder to faculty: You can obtain access to ACF personal computers for your students. Contact the ACF Accounts Office (998-3035, 305 Warren Weaver Hall).

On our cover: The sample graphs on our cover were produced with PRO-MATLAB, an interactive package for scientific and engineering numeric computation. Under a jointly obtained license, PRO-MATLAB is available on all SUN servers and workstations belonging to the ACF and the departments of Computer Science and Mathematics (FAS). Also available under the same license are the Control and Identification “toolboxes”, two sets of software tools that can be used with PRO-MATLAB for supplementary applications.
Featuring:

- Electronic Mail
- Courseware
- Fall '90 News & Notes
  Micros, Mainframes and Minis, Supercomputers, Networks, Graphics, and Data Base Archive
- Tutorials
  UNIX, VMS, WYLBUR, CMS, DOS, SPSS/PC+, Karel, Works, Mathematica, E-mail, and Caucus
- Microcomputer Workshops
  Lotus 1-2-3, dBase IV, WordPerfect, and Paradox
- Seminars
  UNIX, VMS, Networks, BITNET, Graphics, LATEX, SPSS, SAS, BMDP, Logit Models, PageMaker, and much more