A sampler of faculty-developed courseware presented thus far in a new series of colloquia on computers in the classroom. Clockwise from upper right: an introductory psychology "lab" on evolution, Data Desk, and Culture 1.0. Story on page 10.

**SPRING SEMESTER SCHEDULE EDITION**

**Spring '90 at the ACF**

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<th>Important Dates for ACF Users</th>
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<td>Calendar of Events</td>
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<td>Index of Events</td>
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</tbody>
</table>

**ALSO FEATURING**

**Courseware**

- Computers in the Classroom 10
- A Software Awards Program 11

**News and Notes**

- **Micros**: Internship Program Begins in ACF Micro Lab 12
- Mathematica Is Updated 12
- Back Up Reminder, and Other Notes for Micro Users 12
- **Mainframes and minis**: Upgrades of LISP, Graphic Outlook 13
- SAS Is Now on ACF1 13
- A BMDP Programs Directory, An SPSS Users' Conference 14

**Supercomputers**: A Summer Program, for Faculty, Undergrads 14

**Supercomputing Available at NPAC** 15

**Transition Support for JvNC Users** 15

**Networks**: A BITNET Guide 15

**Graphics**: A New Mac IIci in ACF Visualization Center 16

**E-Mail**: ACF Electronic Mail Accounts 16

**Data Base Archive**: Notes on Some DBA Users 17

**General**

- ACF Newsletters, 1989 (Index) 18
- Computer Discounts, Part 2 19
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:
14 Washington Place 998-3399
Tisch Hall 998-3434
Education Building 998-3435
Warren Weaver Hall 998-3037
Third Ave. No. 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

<table>
<thead>
<tr>
<th>If calling from</th>
<th>Dial</th>
<th>For (bps)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NYU</td>
<td>53626*</td>
<td>110 - 1200</td>
</tr>
<tr>
<td>Off Campus</td>
<td>777-7600*</td>
<td>110 - 1200</td>
</tr>
</tbody>
</table>

Via the NYU Computer System Selector (the MICOM Port Selector, or "switch"). If you dial 777-7600 and get no answer, please try 777-6030 or 777-8730, instead.

Via NYU-NET, NYU's campus-wide network.

NEW YORK UNIVERSITY
Washington Square Center
Guide to ACF user work areas and other facilities

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

*ACF Access Cards required to use the microcomputers at these sites.

NYU Trolley route includes (7); weekdays, every 15 minutes during the school year.

User Work Areas:

<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 am-11:30 pm</td>
<td>8:30 am - 5:30 pm</td>
</tr>
<tr>
<td>Tisch Hall</td>
<td>8:30 am-11:30 pm</td>
<td>8:30 am - 5:30 pm</td>
</tr>
<tr>
<td>Education Building</td>
<td>8:30 am-11:30 pm</td>
<td>8:30 am - 5:30 pm</td>
</tr>
<tr>
<td>Third Ave. North</td>
<td>12 pm-1:30 am</td>
<td>10:30 - 5:30 pm</td>
</tr>
<tr>
<td>Consultants:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14 Washington Place</td>
<td>10 am - 9 pm</td>
<td>12 - 5:30 pm</td>
</tr>
<tr>
<td>Tisch Hall</td>
<td>9 am - 9 pm</td>
<td>9 am - 5 pm</td>
</tr>
<tr>
<td>Education Building</td>
<td>10 am - 9 pm</td>
<td>10 am - 5 pm</td>
</tr>
<tr>
<td>Third Ave. North</td>
<td>(To be announced)</td>
<td>(To be announced)</td>
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</tbody>
</table>

Notes: (1) The ACF's public terminals on the B-level of Bobst Library are available during library and study hall hours.
(2) The ACF offices in Warren Weaver Hall are closed on University holidays.
(3) Currently, the Third Avenue North Residence Hall site is available only to students with "ACF Access Cards".

Please see inside back cover for information on student computer registration.
## Spring '90 at the ACF

### Important Dates for ACF Users

#### January

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>Current - Jan. 22</td>
<td>Instructors apply for Spring 1990 Class Accounts as early as possible.</td>
</tr>
<tr>
<td>Jan. 22 (Mon. - Fri.)</td>
<td>Students register for computer use for spring semester.</td>
</tr>
<tr>
<td>Jan. 22 (Mon.)</td>
<td>Spring semester begins.</td>
</tr>
</tbody>
</table>

#### February

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>Feb. 19* (Mon.)</td>
<td>Presidents' Day.</td>
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</table>

#### March

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>March 12 - 17 (Mon. - Sat.)</td>
<td>Spring Recess.</td>
</tr>
</tbody>
</table>

#### April

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>April 22 (Sun.)</td>
<td>Founders Day.</td>
</tr>
<tr>
<td>April 30, onward (Mon.)</td>
<td>Instructors may apply for Class Accounts for both summer sessions, through the first day of classes.</td>
</tr>
</tbody>
</table>

#### May

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>May 2 - 15 (Wed. - Tues.)</td>
<td>Students who expect Incompletes in spring semester courses should apply for computer account extensions. (Instructor's signature required.)</td>
</tr>
<tr>
<td>May 2 - Sept. 1 (Wed. - Tues.)</td>
<td>Individual Account holders who will not be returning for 1990/91 should archive their files.</td>
</tr>
<tr>
<td>May 2 - 15 (Wed. - Tues.)</td>
<td>Students with spring semester Class Accounts should archive all files they wish to save after May 15.</td>
</tr>
<tr>
<td>May 7 - 15 (Mon. - Tues.)</td>
<td>Spring semester final examinations.</td>
</tr>
<tr>
<td>May 15 (Tues.)</td>
<td>Spring semester ends.</td>
</tr>
<tr>
<td>May 15 (Tues.)</td>
<td>Student Class Accounts issued for the spring semester expire.</td>
</tr>
<tr>
<td>May 15 (Tues.)</td>
<td>Instructors may begin to apply for fall semester computer Class Accounts now (through Sept. 1).</td>
</tr>
<tr>
<td>May 15 - 26 (Tues. - Sat.)</td>
<td>Students register for computer use for Summer Session I.</td>
</tr>
<tr>
<td>May 17 (Thurs.)</td>
<td>Commencement.</td>
</tr>
<tr>
<td>May 21 (Mon.)</td>
<td>ACF's Summer Hours begin.</td>
</tr>
<tr>
<td>May 21 (Mon.)</td>
<td>Summer Session I begins.</td>
</tr>
<tr>
<td>May 21 (Mon.)</td>
<td>Individual Account holders should apply for annual renewal of their accounts before leaving for the summer. (Individual Accounts expire on Sept. 1.)</td>
</tr>
<tr>
<td>May 28* (Mon.)</td>
<td>Memorial Day.</td>
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</tbody>
</table>

* University holiday

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

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

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And a reminder for the summer months:

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>June 27 - July 7 (Wed. - Sat.)</td>
<td>Students register for computer use for Summer Session II.</td>
</tr>
</tbody>
</table>
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. (See below for tutorials' locations.)

Most "walk-in" tutorials are scheduled during the first few weeks of the semester. 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.

Mathematica (UNIX, Mac)
Third Ave. No. Res. Hall, basement
(Meet at guard's desk, 12th St. entrance. ACF Access Card and sign-up not required.)

**Tuesdays**
Feb. 6, March 6
6:30 pm

SPSS/PC+ (IBM PC)
Education Building, second floor
**Thursdays**
Feb. 1, 8, 15
3:00 pm

MS-DOS (IBM PC)
Education Building, second floor
**Tuesdays**
Jan. 30, Feb. 6
1:00 pm

**Thursdays**
Feb. 1, 8, 15
6:00 pm

Microsoft Works (PC, Mac)
Third Ave. No. Res. Hall, basement
(ACF Access Card required. See inside front and back covers.)
**Fridays, through May 4 (except Jan. 26)**
2:00 pm (PC)
3:00 pm (Macintosh)

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

**Mondays**
Jan. 22, 29, Feb. 5
1:30 pm, 3:00 pm

**Wednesdays**
Jan. 24, 31, Feb. 7
1:30 pm, 3:00 pm

**Thursdays**
Jan. 25, Feb. 1, 8
11:30 am, 1:30 pm, 3:00 pm, 5:00 pm

**Fridays**
Jan. 26, Feb. 2, 9
10:00 am, 1:30 pm

WYLBUR (IBM mainframe)
Room LC-8, Tisch Hall

**Mondays**
Feb. 5, 12, 26, March 5
5:30 & 6:30 pm

**Thursdays**
Feb. 8, 15, 22, March 1, 8
5:30 & 6:30 pm

Introductory Lectures
Room 102, Warren Weaver Hall
**Fridays**
Feb. 9, 16, 23, March 2
6:00 pm

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

UNIX (VAX and SUN)
14 Washington Place, basement

**Mondays**
Jan. 22, 29
6:00 pm

**Wednesdays**
Jan. 24, 31, Feb. 7
1:00 pm

**Fridays**
Jan. 26, Feb. 2, 9
4:00 pm

**Saturdays**
Jan. 27, Feb. 3, 10
11:00 am
(Saturdays at Education Building, second floor)

VMS (VAX)
14 Washington Place, basement

**Mondays**
Jan. 22, 29
1:00 pm

**Wednesdays**
Jan. 24, 31, Feb. 7
4:00 pm

**Fridays**
Jan. 26, Feb. 2, 9
6:00 pm

**Saturdays**
Jan. 27, Feb. 3, 10
1:00 pm
(Saturdays at Education Building, second floor)

Electronic Mail (VMS, UNIX)
14 Washington Place, basement

**Wednesdays**
Feb. 28, March 21
2:00 pm
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, the series of hands-on workshops for users of IBM PCs will feature sessions on the popular word processing program WordPerfect 5.0, WordPerfect graphics, the spreadsheet program Lotus 1-2-3, and the database management system, dBase IV.

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: There is no longer a fee for the microcomputer workshops.

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.

Note: The Macintosh workshops have been eliminated due to a lack of user attendance. If you feel you would like them reinstated, please contact Henry Mullish at 998-3039.

Introduction to WordPerfect 5.0
Morning Workshops:
- January 12, 19, 26
- February 9, 23
- March 2, 23
- April 20, 27
- May 4, 25
- June 1, 15, 22
- July 13

Afternoon Workshops:
- January 12
- March 2

Intermediate WordPerfect
Morning Workshop:
- April 6

Afternoon Workshops:
- January 19
- February 9, 23
- March 23
- April 27
- May 25
- June 22

Advanced WordPerfect
Morning Workshops:
- February 2
- June 29

Afternoon Workshop:
- April 6

Introduction to Lotus 1-2-3
Morning Workshops:
- February 16
- March 30
- June 8

Afternoon Workshop:
- January 26

Intermediate Lotus 1-2-3
Afternoon Workshops:
- February 16
- March 30
- June 8

Introduction to dBase IV
Morning Workshops:
- March 9
- May 11
- July 6

Intermediate dBase IV
Afternoon Workshops:
- March 9
- May 11
- July 6

WordPerfect Graphics*
Afternoon Workshops:
- February 2
- April 20
ACF Talks & Seminars*

Topics in UNIX
Warren Weaver Hall, Room 813, 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 this semester at the ACF's 14 Washington Place site.

Topics in UNIX (part I)
Tuesday, February 6
Topics in UNIX (part II)
Tuesday, February 13

Topics in VMS
Warren Weaver Hall, Room 813, 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 in VMS (part I)
Tuesday, February 20
Topics in VMS (part II)
Tuesday, February 27
Topics in VMS (part III)
Tuesday, March 6

Electronic Mail: Using the DEC MAILer on VAX/VMS
14 Washington Place, 2-4 pm
Jeffrey Bary will instruct participants in the use of the DEC MAILer. This program for sending and receiving electronic mail both on and off campus is available on the ACF's VAX/VMS computers.

The first hour will cover such topics as mail folders, the DIRECTORY command, and distribution lists for the SEND command. The second hour will provide attendees with hands-on experience.

Participants must have regular VAX/VMS accounts. (The DEC MAILer is a different program from that used in the ACF's electronic-mail-only accounts.) Faculty, graduate students, and administrative staff may call the ACF Accounts Office (998-3030) for information on obtaining accounts. (Please note location.)

DEC MAILer
Wednesday, February 14

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 Macintoshes) and Novell (for IBM PC's).

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
Wednesday, February 21

Kermit Practicum: Connecting Home Computers with NYU Computers
Education Building, second floor, 2:30 pm
The communications software package "Kermit" will be discussed and demonstrated. Kermit, obtainable free of charge at NYU, provides a means of transferring files back and forth between your home computer and NYU computers, enabling you to use NYU computer to work on files developed at home, and vice versa.

Kermit Practicum (session I)
Thursday, February 22
Kermit Practicum (session II)
Thursday, April 5

* All are welcome: Unless otherwise indicated, speakers are ACF staff members, and reservations are not required.
Analyzing Linear Structural Relations with LISREL VII

Warren Weaver Hall, Room 1303, 1-4 pm

This series of four presentations is an introduction to the analysis of covariance structures using the program LISREL VII.

In the first two talks, Robert Yaffee will discuss the theory of linear structural relations. On March 6, he will explore LISREL measurement and structural models, and on March 20, he will discuss the identification, estimation, and fitting of those models.

In the last two talks, independent consultant Irving Bernstein will discuss the programming of LISREL VII. On March 27, he will present examples of congeneric measurement models, recursive and nonrecursive causal models with observed variables, and confirmatory factor analyses. On April 3, he will deal with the programming of recursive and nonrecursive structural equation models with latent variables.

LISREL VII is currently being installed on the ACF's IBM WYLBUR system. Reservations are required; please call 998-3402.

UNIX Administration

LISREL Theory (part I)
Tuesday, March 6
LISREL Theory (part II)
Tuesday March 20
LISREL Programming (part I)
Tuesday, March 27
LISREL Programming (part II)
Tuesday, April 3

UNIX Administration

Warren Weaver Hall, Room 1302, 1-3 pm

In this introductory-level talk, Chetan Dube will describe procedures used in the administration of AT&T 3B-series computers running the UNIX System V operating system.

Topics will include procedures for user services, system security, disk management, and reconfiguration and updating; run-level transitions; the use of firmware and diagnostic programs; file system management; backup and restore procedures; and basic networking, IP, and IP management procedures.

This talk is directed toward all users of the 3B line of computers—including researchers in the social and physical sciences—as well as toward users of other System V machines who are interested in administrative procedures.

UNIX Administration

LISREL Theory (part I)
Tuesday, March 6
LISREL Theory (part II)
Tuesday March 20
LISREL Programming (part I)
Tuesday, March 27
LISREL Programming (part II)
Tuesday, April 3

Nota Bene: An Academic Word Processor and Database Manager

Education Building, second floor, 2:30 pm

Larry Mingione will speak on Nota Bene, a text processor coupled with a database manager, which runs on IBM PC's. This talk will touch on some of the more popular aspects of Nota Bene, including multilingual characters, style manual formats, and Text Base.

Nota Bene is designed for researchers in the humanities who wish to have large amounts of text available for retrieval from within a word processor. The package allows the researcher to print many alphabets and search through entire hard disks of text using logical expressions.

Nota Bene

Thursday, March 22

Technical Seminar for System Administrators of NYU-NET Nodes

Warren Weaver Hall, Room 813, 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, March 27

The schedule of ACF Talks and Seminars continues on page 8.
## ACF Tutorials, Workshops and Talks

### January

**For other important dates for ACF users** — account registration and renewal, holiday schedule, and so on — please see page 1.

<table>
<thead>
<tr>
<th>MONDAY</th>
<th>TUESDAY</th>
<th>WEDNESDAY</th>
<th>THURSDAY</th>
<th>FRIDAY</th>
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<tr>
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<td>Tutorials: Works, 2, 3</td>
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<td>12</td>
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</tbody>
</table>

- **Instructions apply for Spring ’90 Class Accounts, (through Jan. 22).**
- **For further information** on microcomputer workshops, please see page 5; on tutorials, page 2; on talks and seminars, pages 4, 5, 8, and 9. Some events require registration.

| Tutorials: Karel, 1:30, 3 UNIX, 6 VMS, 1 Students register for computer use. Spring semester begins. |
|---------|--------|-----------|----------|----------------|
| 15      | 16     | 17        | 18       | 19              |
|         |         |           | Workshops: WordPerfect Intro, 9-12 WordPerfect Intro, 1-4 Workshops: WordPerfect Intro, 9-12 WordPerfect, Interm., 1-4 |
| Tutorials: Karel, 1:30, 3 UNIX, 6 VMS, 1 | Tutorials: Karel, 1:30, 3 UNIX, 1 VMS, 4 | Tutorials: Karel, 11:30, 1:30, 3, 5 |

<table>
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<tr>
<th>22</th>
<th>23</th>
<th>24</th>
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<th>26</th>
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</thead>
<tbody>
<tr>
<td>Tutorials: Karel, 1:30, 3 UNIX, 6 VMS, 1</td>
<td>Tutorial: MS-DOS (PC), 1</td>
<td>Tutorials: Karel, 1:30, 3 UNIX, 1 VMS, 4</td>
<td>Workshops: WordPerfect Intro, 9-12 Louis Intro, 1-4</td>
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<tr>
<td>29</td>
<td>30</td>
<td>31</td>
<td></td>
<td>Tutorials: Karel, 10, 1:30; UNIX, 4; VMS, 6</td>
</tr>
</tbody>
</table>

**For further information** on microcomputer workshops, please see page 5; on tutorials, page 2; on talks and seminars, pages 4, 5, 8, and 9. Some events require registration.

### February

**Tutorials:** SPSS/PC+, 3 MS-DOS (PC), 6 Karel, 11:30, 1:30, 3, 5

<table>
<thead>
<tr>
<th>MONDAY</th>
<th>TUESDAY</th>
<th>WEDNESDAY</th>
<th>THURSDAY</th>
<th>FRIDAY</th>
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<tbody>
<tr>
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<td>Tutorials: SPSS/PC+, 3 MS-DOS (PC), 6 Karel, 11:30, 1:30, 3, 5</td>
<td>Workshops: WordPerfect, Advanced, 9-12 WordPerfect, Graphics, 1-4</td>
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<tr>
<td>Tutorials: Karel, 1:30, 3 MS-DOS (PC), 1 Mathematica, 6:30</td>
<td>Tutorials: Karel, 1:30, 3 UNIX, 1 VMS, 4</td>
<td>Tutorials: SPSS/PC+, 3 MS-DOS (PC), 6 Karel, 11:30, 1:30, 3, 5 WYLBUR, 5:30, 6:30</td>
<td>Workshops: WordPerfect Intro, 9-12 WordPerfect, Interm., 1-4</td>
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<tr>
<td>Seminar: Topics in UNIX (I) Seminar: DEC MAILer Seminar: Topics in UNIX (II) Seminar: DEC MAILer Intro Lecture: WYLBUR, 6</td>
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<td>Tutorials: Karel, 10, 1:30; UNIX, 4; VMS, 6 Intro Lecture: WYLBUR, 6</td>
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<tr>
<td>Seminar: Topics in VMS (I) Seminar: IBM and Apple Networks Seminar: Kermit Practicum (I) Seminar: WYLBUR, 5:30, 6:30</td>
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<td>Workshops: Louis Intro, 9-12 Louis, Interm., 1-4</td>
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<tr>
<td>Tutorials: WYLBUR, 5:30, 6:30</td>
<td>Tutorials: Topics in VMS (II) Intro to SPSS/PC+ Tutorial: Electronic Mail, 2</td>
<td>Saturday tutorials: Unix - Jan. 27, Feb. 3, 10, 11:00 am VMS - Jan. 27, Feb. 3, 10, 1:00 pm See page 2 for a complete tutorial schedule and for information on registration and locations.</td>
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### MARCH

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Spring Recess begins, (through March 17); see page 1

### APRIL

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Instructors may apply for Summer Session Class Accounts, through the first day of classes.
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<td>Spring semester final examinations (through May 15).</td>
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<td>Students register for Summer Session computer use (through May 20). Students' Spring '90 Class Accounts expire.</td>
<td>Instructions may apply for fall 90 computer Class Accounts (through Sept. 1).</td>
<td>Commencement</td>
<td>Individual Account holders apply for annual renewal of their accounts, (through Sept. 1).</td>
<td>Workshop: WordPerfect Intro, 9-12 WordPerfect, Intermed., 1-4</td>
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<td>Summer hours begin. Summer Session I begins.</td>
<td>Microcomputer Workshops in June and July:</td>
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<td>Memorial Day:</td>
<td>June 1, 15, 22, July 13 - WordPerfect Intro, 9-12 June 8 - Lotus 1-2-3 Intro, 9-12; Lotus 1-2-3, Intermed., 1-4 June 22 - WordPerfect, Intermed., 1-4 June 29 - WordPerfect, Advanced, 9-12 July 6 - dBase IV Intro, 9-12; dBase IV, Intermed., 1-4</td>
<td>Another reminder for the summer months: June 27 - July 7 — Students register for computer use for Summer Session II.</td>
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(ACF Talks and Seminars, continued from page 5.)

**Computer Graphics at the ACF**
Warren Weaver Hall, Room 813, 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 '89 semester.

**Film Showing**
Tuesday, April 3

**Introduction to Style and Grammar Analyzers**
Education Building, second floor, 2:30 pm

Henry Mullish will introduce several style and grammar analyzers for text processing on personal computers. These programs can be used as tools to help strengthen one's writing, point out possible flaws, and assign a reading level to a document. Reservations are required; please call Henry Mullish at 998-3039.

**Style and Grammar Analyzers**
Wednesday, April 4

**Graphics Programming on the IRIS**
Warren Weaver Hall, Room 1302, 1 - 3 pm

Libby Netland will present an overview of graphics programming on the IRIS, a three-dimensional graphics workstation for scientific visualization and modeling.

Topics will include lighting models, the window manager, and alpha blending. This talk is intended for current and prospective users of the ACF's IRIS 4D workstation, as well as for any other individuals who have access to an IRIS running Version 3.1 or higher. As space is limited, please arrive on time.

**IRIS Programming**
Wednesday, April 4

**PageMaker on the Apple Macintosh**
Education Building, second floor, 2:30 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, ad flyers, and the like.

**PageMaker (part I)**
Thursday, April 12

**PageMaker (part II)**
Thursday, April 19

(continued on next page)
Using WordPerfect 5.0 for Foreign and Mathematical Characters
Education Building, second floor, 2:30 pm
Henry Mullish will demonstrate how WordPerfect 5.0, a word processing program for the IBM PC, can be used to handle foreign and mathematical characters in documents.
A previous knowledge of WordPerfect will be helpful, but is not necessary. Reservations are required; please call Henry Mullish at 998-3039.

WordPerfect Characters
Wednesday, April 18

Mathematica
Warren Weaver Hall, Room 317, 2:30 pm
Frances Bauer, an applied mathematician at Courant Institute of Mathematical Sciences, will discuss and demonstrate uses of Mathematica in scientific applications.
Mathematica is a general system for numerical, symbolic and graphical computation which can be used both as an interactive calculation tool and as a programming language. Versions of Mathematica are available on several ACF UNIX and Macintosh computers.

WordPerfect 5.0 Macros
Education Building, second floor, 2:30 pm
Henry Mullish will demonstrate how to dramatically increase productivity, when working in WordPerfect 5.0 on the IBM PC, by creating macros for common tasks.
Attendees need have no previous knowledge of macros, although a knowledge of WordPerfect will be helpful. Reservations are required; please call Henry Mullish at 998-3039.

WordPerfect Macros
Wednesday, April 25

Sorting in WordPerfect
Education Building, second floor, 2:30 pm
WordPerfect'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.
A previous knowledge of WordPerfect will be helpful, but is not necessary. Reservations are required; please call Henry Mullish at 998-3039.

WordPerfect Sorting
Wednesday, May 2

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Courseware in the Classroom

Courseware is Focus of New Colloquium Series at NYU

A language lesson. Introductory psychology and developmental ethology. Western civilization and culture. Data analysis and presentation. These are the subjects of faculty-developed courseware that have been presented thus far this year in a new series of colloquia at Computer Center, the Faculty of Teachers in the College Classroom, and is developed courseware that have been presented (please see related item), and was developed using the authoring program InfoWindows.

HyperCard “Laboratories”
The session on December 6th featured courseware developed with HyperCard, a “hypermedia” program which is distributed by Apple, free of charge, with each Macintosh sold.

Professor David Miller discussed and demonstrated his use of HyperCard for course development and for interactive learning presentations.

Professor Miller has authored a number of instructional “stacks” that are used by students in introductory psychology courses at the University of Connecticut, where he is director of the Developmental Ethology Laboratory of the Center for the Ecological Study of Perception and Action.

These “stacks” include interactive, animated, and sound-accompanied “labs” in a number of topics, including evolution, perceptual and motor skills, reaction time, and subliminal perception, as well as in experimental design and the writing of scientific literature.

HyperCard-produced materials are referred to as “stacks”. For the user as well as the developer, they have the intuitive feel of meaningfully associated stacks of index cards, slides, and so forth. Professor Miller’s courseware runs on Apple Macintoshes.

Western Civilization
A second application of HyperCard was displayed by Professor Walter Reinhold of NYU’s School of Education, Health, Nursing and the Arts Professions.

Professor Reinhold’s Culture 1.0, the Hypermedia Guide to Western Civilizations is an interdisciplinary, cross-referenced compilation of Western historical and cultural information dating from 1800 B.C. to the twentieth century. The program combines text, graphics (including reproductions of major artworks and portraits of prominent artists and historical figures), and sound (for each composer, the signature of a major work can be played).

Culture also serves to demonstrate the flexibility with which users can navigate HyperCard-implemented instructional databases. In addition to providing a structured overview and path through its copious material, Culture’s implementation strongly encourages browsing and the pursuit of particular interests.

Culture 1.0 was lauded in the Education section of the New York Times (November 29), as a potential model for educational software in the 1990’s. A copy of the program, which is produced by Cultural Resources, Inc. (201-709-1574), is available for examination in the ACF’s Faculty Microcomputer Laboratory (998-3045). An IBM PC version of

(continued on next page)

HyperCard Workshop Is Planned for Jan. 26

As we go to press, a full-day, hands-on HyperCard workshop and training session has been arranged for Friday, January 26, as part of this series. It will be conducted by HyperCard instructors sent specially by Apple.

The workshop is open to all NYU faculty and administrators. A knowledge of the Macintosh is assumed, and reservations are required. To reserve a space and for further information, please contact Amanda Lathroum (lathroum@acfcn.nyu.edu or 998-2706).
1.0 will be released in early February.

Data Analysis

Data analysis was the subject of the December 12th colloquium, at which the speaker was Paul Velleman, Associate Professor of Economic and Social Statistics at Cornell University. In three separate sessions scheduled for that day, he focused, in turn, on the teaching of data analysis, on trends in computing for statistics, and on data analysis and administrative computing.

Professor Velleman demonstrated Data Desk, a data analysis and graphics program which he developed for the Macintosh and for which he has authored an accompanying text.

Data Desk is used both in instruction and in the performance of univariate and multivariate statistical analyses. It also offers many features that are useful in exploratory data analysis; for example, it allows the simultaneous display of several types of two- and three-dimensional data representations. These can be rotated and transformed at will and are automatically updated as further calculations or "what-ifs" are performed.

Professor Velleman's recent research has been in interface design for statistical graphics and for multivariate statistical analyses, and in his discussion he pointed out design considerations that had been implemented in the program. Data Desk is commercially available from Odesta Corporation, which offers educational discounts (1-800-323-5423). A Data Desk trial disk is available for demonstration purposes in the ACF's Faculty Micro Lab (998-3045).

—Estelle Hochberg

Entries Are Invited for A Courseware Awards Competition

Applications for 1990 Are Being Accepted Now

The EDUCOM/NCRPTAL Higher Education Software Awards program is accepting entries for its 1990 competition. The program seeks outstanding software packages and effective curricular implementations of computers at the college level. Disciplines include undergraduate liberal arts, law, accounting, and undergraduate engineering. Special encouragement is given to curriculum innovations addressing problems in writing, laboratory sciences, and underprepared students.

Two levels of awards are distributed. Distinguished awards are given to entries that meet criteria related to enhancing student learning; winners receive a plaque and a modest monetary award. Best awards are given to exceptional entries in each of a number of discipline categories; winners receive a trophy and a substantial monetary award. Of the 200 entries in the 1989 competition, 22 were identified as Distinguished, and fourteen of these were selected as Best in various categories. A directory of submitted software is published each year.

Applications must be completed by March 2, 1990. For application materials and further information, please write to NCRPTAL, 2400 School of Education Building, The University of Michigan, Ann Arbor, Michigan 48109-1259.

NCRPTAL is the National Center for Research to Improve Postsecondary Teaching and Learning. EDUCOM, a nonprofit consortium of over 500 colleges, universities, and other institutions, was founded in 1964 to facilitate the introduction, use, and management of information technology in higher education. The EDUCOM/NCRPTAL Higher Education Software Awards Program was established in 1987.

—Extracted from an NCRPTAL release.

For further information, or to suggest a topic...

More presentations are planned for the Spring '90 semester. Announcements will be posted on the electronic bulletin board, BBOARD, which is available on the ACF's INFO system. INFO can be accessed without an ACF computer account: simply type INFO in response to NYU-NET's ">>" prompt; INFO's menus will guide you to BBOARD.

For further information, or to suggest a topic for a colloquium in this series, please contact Amanda Lathroum (lathroum@acfclu.nyu.edu or 998-2706).
Announcing a Program of Internships in the ACF's Faculty Micro Lab

The ACF has established a program of staff-member internships at the ACF's Faculty Microcomputer Laboratory. The program, which starts this semester, is open to eligible members of the NYU staff.

The program's purpose is to enhance computer expertise within the various units of the University, so as to enable departments to better manage their computing resources. It is hoped that, with time, these internships will help produce a network of individuals who, under ACF guidance, can draw upon each other's experience for problem solving and planning.

Activities

Interns will participate in a wide variety of computer support activities at the ACF's Micro Lab, including hardware and software trouble-shooting, helping prospective computer purchasers decide upon hardware and software, and microcomputer network management.

Wherever possible, interns with particular interests and talents will be encouraged to develop them. For example, for an individual who is especially interested in database software, the ACF might arrange for a majority of his or her internship work to be devoted to attaining a broadened knowledge of this area.

Each intern will be expected to spend 3 - 4 hours per day over a period of three months working at the Micro Lab.

Initially there will be no more than one or two interns at a time. As the program progresses, however, it may be possible to accommodate additional interns.

Eligibility

Heads of departments may nominate qualified staff members for the internship program. Candidates should have some prior experience with microcomputers and should be using microcomputers in their current work within the University. In addition, it is desirable that the person have the disposition and the ability to use their newly acquired computer knowledge to assist others in their department.

Letters of nomination may be sent to Ed Franceschini, Academic Computing Facility, Warren Weaver Hall.

Mathematica is Updated on Instructional Facility's Mac Server

The latest version of Mathematica is now available on the Macintosh server at the ACF's instructional microcomputer facility in the Third Avenue North Residence Hall. This version corrects many bugs in the previous Macintosh version of Mathematica, and offers many enhancements.

For further information on the use of Mathematica at the Third Avenue North Residence Hall site, please contact ACF consultant Howard Fink (998-3500).

Mathematica, a general system for numerical, symbolic and graphical computation, can be used both as an interactive calculation tool and as a programming language. Mathematica is also available on the ACF's two Sun servers and on the Macintosh II in the ACF's Visualization Center.

Reminder: Back Up Your Hard Disks Regularly

Hard disks can fail, software errors can occur, "viruses" can attack, and people can simply make mistakes. Data and software can be lost or destroyed in many ways. Backups are your primary defense against a legion of potential mishaps.

This is a reminder to back up your hard disks regularly. Back up your software, and make frequent backups of your data. The best way of doing this is to use several sets of backup disks in rotation.

How frequently should you make backups? It depends on how quickly your data changes (the more changes you make, the more frequently you should back up) and how severely your work would suffer from a loss of that data.

For advice in setting up a backup regimen for yourself or your department, or to find out about alternative backup media (tape drives, for example), faculty members and researchers may contact Gary Chapman at the ACF's Faculty Microcomputer Lab (998-3044); administrative staff may call Jonathan Oh (998-3043).

--- Estelle Hochberg
Software Distributed at the ACF’s Faculty Microcomputer Lab

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** 1.5 (for Macintosh).
- **FLU SHOT+** 1.7 (for PC).
- **Kermit** 0.98 (62) (for Macintosh) and 2.32/A (IBM-PC). Please bring 1 blank diskette.
- **Macintosh Operating System** 6.0.4 (for distribution to owners of older versions of the Mac system). Please bring your copy of the Mac operating system and 4 blank diskettes.
- **ProComm** 2.4.2 (for IBM-PC). “Shareware” version; Datstorm Technologies, Inc. requires a registration fee for its continued use. Please bring 1 blank diskette.
- **SAS** 3 (for IBM-PC). Please bring 29 blank diskettes.
- **SPSS/PC+ and Advanced Statistics module** 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 and $50 for the Advanced Statistics module.
- **SCAN** 1.7V54 (virus detector for the IBM PC).

Users of SPSS/PC+ and BMDP may also be interested in the items on page 14.

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.

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Graphic Outlook Is Upgraded on VMS

To correct a problem with Version 5.0 of the spreadsheet program Graphic Outlook, the most recent available version was obtained from the vendor. Version 5.33 is now the default version on the ACF’s cluster of VAX/VMS computers.

Should you encounter any problems, please report them by sending electronic mail to the “user” COMMENT. Please check the online bulletin board BBOARD for additional updates.

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VMS Version of SAS Is Moved to ACF1

The VMS version of the statistical package SAS has been moved from ACF7 to ACF1, another member of the ACF’s cluster of VAX/VMS machines.

ACF1 is a VAX 6330 — a larger, faster and newer model of machine, with multiple central processors, offering better “throughput”.

Users of SAS on the ACF’s VMS (continued on following page)
systems should now connect explicitly to ACF1, by typing “ACF!” in response to the “>>” and “SELECTION” prompts (respectively, the NYU-NET and NYU System Selector prompts). Any files which you created prior to SAS’s move to ACF! remain unchanged and available to you; since ACF1 and ACF7 are both members of the ACF cluster, they share a common base of users’ files.

—Reported by Stephen Tihor

New BMDP Applications Directory Solicits Users’ Entries

A new directory of BMDP applications is now in preparation. It will feature applications developed by BMDP users in industry, government and universities.

All BMDP users are invited to submit their BMDP applications for inclusion in this new directory. Preference will be given to applications which employ a BMDP program to solve an interesting data analysis problem. If you are interested in having your work included in this directory, contact Joseph Martin of ApCat, Inc. — the directory’s publisher — at (312) 564-9069.

(From an announcement issued by BMDP Statistical Software, Inc. BMDP is a package of programs for statistical analysis. It is available on the ACF’s IBM mainframe and VAX/VMS systems. A version for the IBM PC is also commercially available.)

Academic Conference for SPSS Users to be Held

The First Annual Conference for SPSS Users will be held in Montreal, Canada, from June 12 - 15, 1990. It is being sponsored by McGill University with the purpose of furthering the knowledge and uses of SPSS products, and will be geared specifically to the academic user community.

Topics covered at the conference will include teaching with SPSS; institutional research; education, consulting and technical support; survey design and research; tricks and tips on making the most of SPSS software; and advanced techniques in multivariate analysis.

Participation is limited. Requests to receive registration material, hotel information, and the call for papers must be received by February 15. Send your name, title, institution, address, telephone number, and Fax number and E-mail address (if any) to: SPSS Secretariat, 3450 University Street, Montreal, Quebec, Canada, H3A 2A7 (Tel: 514-398-3770; Fax: 514-398-4854; E-mail: spss@co.lan.mcgill.ca).

—From a McGill University release

Hint to VMS Users: Run Big Programs on ACF1

ACF1 currently has the fastest and most efficient processing capabilities of the three members of the ACF cluster of VAX/VMS machines. It is a VAX 6330 with three central processing units in a shared memory configuration.

Thus, if you are using a program that both interacts with the user at the terminal and also performs large numbers of computations, you are best off doing so on ACF1.

You can explicitly request a connection to ACF1 when accessing the cluster by typing "ACF1" in response to NYU-NET’s ">>" prompt (or to the "SELECTION" prompt, if you are accessing the cluster via the NYU Computer System Selector).

Note: UNIX users with large jobs should consider using ACF10 (the CONVEX).

—Reported by Stephen Tihor

Supercomputers

Summer Supercomputing Program for Undergraduates and Faculty

The Cornell National Supercomputer Facility (CNSF) is accepting applications from student-faculty teams for this year’s Supercomputing Program for Undergraduate Research (SPUR).

The Program

SPUR is intended to enable undergraduates to pursue a computational science research project while developing supercomputing skills. Under the 1990 program, students propose a computational research project in any math, science or engineering discipline. They apply as a team — one faculty adviser and one to two undergraduate students.

Participants then attend a short course at Cornell University: for students, June 4 - 28; for faculty, June 18 - 28. The students will be trained in advanced computing methods, with particular emphasis on parallelism and vectorization. After attending the short course, students carry out the project for credit at
their home institution, under the direction of the faculty adviser.

Participants will have access to all CNSF resources, including two IBM 3090 multiprocessor supercomputers with 12 vector facilities, parallel processing, and extensive graphics facilities. A stipend of $2,000 for the four-week course and travel expense support are provided to undergraduate participants; faculty advisers receive $250 per week. Room and board are provided for both students and faculty.

Eligibility
Students must have had coursework in linear algebra and both coursework and experience in FORTRAN programming; they must also be U.S. citizens or permanent residents who will not graduate before December 1990. To obtain an application and further information, contact: Donna Smith, Conference Coordinator, Cornell National Supercomputer Facility, Campus Road and Central Avenue, Ithaca, NY 14853-8301, Tel.: 607-255-3985 or 800-346-2673, donna@tcgould.tm.cornell.edu.

---From a CNSF flyer

Supercomputing Resources Available at NPAC

NYU researchers may apply for the use of supercomputing resources at the Northeast Parallel Architectures Center (NPAC) at Syracuse University.

NPAC was established in April 1987 to “promote and explore advanced computing technology by providing parallel architectures and research support to university, corporate, and government researchers nationwide.”

Research Supported
NPAC supports research to evaluate the use and improvement of parallel computing and to explore areas in the physical sciences, engineering, and social sciences which can use parallel computing.

Research areas supported by NPAC include artificial intelligence, signal processing, logic programming, image processing, information retrieval, VLSI design, algorithm evaluation, parallel architecture, and evaluation & measurement. Facilities
Current facilities include a Connection Machine CM-1 (32K processors), a Connection Machine CM-2 (32K processors), an Encore Multimax 320 (running UMAX), an Encore Multimax 310 (running Mach), an Alliant FX/80 (8 Advanced Computational Elements, 6 Interactive Processors), and a Stellar Graphics GS1000 (4 streams, 40 MFLOPS).

For more information and Request-for-Resources applications, contact NPAC, 111 College Place, Syracuse University, Syracuse NY 13244-4100 (tel.: 315-443-1722; e-mail: npac@sfx.npac.syr.edu).

---From an NPAC announcement

Transition Support for JvNC Supercomputer Users

If you are a user of the John von Neumann National Supercomputer Center (JvNC) at Princeton, NJ, you know by now that it will terminate its operations at the end of April 1990.

This note is to reassure you that JvNC supercomputer facilities will be available through the end of April. Accounts on supercomputers at the other four NSF-funded supercomputer centers will remain available to you. In addition, short blocks of “seed” time are quickly and easily obtained.

A list of the expanding facilities at these centers and applications for accounts on their machines may be obtained from the ACF Accounts Office (Room 305 Warren Weaver Hall, 998-3035). For information on seed time, and help in deciding where and how to transfer your supercomputer work, please contact Ed Friedman at the ACF, preferably by electronic mail (friedman@acfclu.nyu.edu or bitnet"friedman@nyuacf") or at 998-3051.

The National Science Foundation (NSF) decided not to renew the JvNC’s funding, as a result of the collapse in April 1989 of ETA systems, the Center’s supercomputer vendor. In a recent letter, Thomas A. Weber, Director of NSF’s Division of Advanced Scientific Computing, assured current JvNC supercomputer users that “...every effort will be made to minimize the disruption to your scientific research and aid you in transferring to another Center.” The full text of the letter was posted by the ACF on various electronic bulletin boards and is available from the ACF Accounts Office.

---Extracted from ACF releases

(continued on following page)
A BITNET Guide for your reading enjoyment

Network users at NYU are familiar with BITNET as the name of one of the networks over which they send and receive electronic mail and files. However, BITNET offers other services, as well. To learn more about these, you may wish to refer to BITNET USERHELP, an online guide to BITNET services. The guide includes pieces on such topics as "Tools for Communication" and "Servers and Services", information on other networks and gateways, as well as the interestingly titled "BITNET for the Compleat Idiot". BITNET USERHELP is updated periodically. You can obtain the latest version by doing the following.

- On VMS, at the $ prompt, type the command (on one line):
  send listserv@bitnic get bimet userhelp.
- On CMS, type (again on one line):
  tell listserv at bitnic get bitnet userhelp.
- On UNIX, to the address
  listserv@bitnic.bitnet, send an E-mail message that consists of the single line:
  get bimet userhelp.

You can obtain the latest version of the file, BITNET SERVERS, by using the same commands, but replacing the string "userhelp" with "servers".

BITNET is an international network of over 2,000 computers at universities and research centers. BITNET services include electronic mail links, electronic conferencing, and over 110 "list servers" or bulletin boards. BITNET also is NYU's connection to the EARN network in Europe.

---Reported by Jeffrey Bary

A Note on Network Hierarchies

Did you know that academic and research computer networks in the United States are divided into three categories? There are cross-country networks, like NSFNET (National Science Foundation Network), NSN (NASA Science NET), and ESNet; regional networks, like NYSERnet (which encompasses New York State and parts of Vermont, Connecticut and Massachusetts), JVNCnet (now called the North East Research Regional Network, covering parts of Pennsylvania, all of New Jersey, and parts of New York, Rhode Island and Massachusetts), and NEARnet (North East Academic Research Network, covering Boston and most of Massachusetts); and campus networks, like NYUNET, ColumbiaNet, and MIT-NET.

In general, networks are arranged and connected in a hierarchical fashion. Networks within an institution are connected to an institution-wide network which is connected to a regional network; this, in turn, is connected to a national network. Corporate networks tend to be connected in a similarly hierarchical arrangement.

---Bill Russell with Enrielle Hochberg

Electronic Mail

The ACF's Electronic Mail Accounts

Many people are finding electronic mail (E-mail) a convenient way to communicate. It is much faster than conventional mail — typically, messages are delivered within a few moments of their being sent. Further, since an E-mail conversation does not require that both parties be engaged simultaneously, it can be a happy alternative to "telephone tag". Finally, you don't have to be a computer "guru" to use E-mail.

Electronic mail is available to all users of ACF mainframe and minicomputer systems. In addition, the ACF issues special-purpose Electronic Mail Accounts to faculty members and research staff who wish to have the convenience of electronic mail, but do not require other mainframe/mini computing resources.

The ACF's Electronic Mail Accounts

Chem-X is a molecular modeling system. A new module allows Chem-X graphics to be run in a GKS-3d window on the Mac. Mathematica is a system for numerical, symbolic and graphical computation. This semester, the ACF has scheduled tutorials and a discussion/demonstration for beginning or prospective Mathematica users; see pages 2 and 9 for details.

The Iici is the current top of the Macintosh line. The model in the ACF's Visualization Center has an 8-bit video board and monitor, 8 megabytes of memory, and an 80 megabyte hard disk drive.

---Reported by Ed Friedman

Visualization Center Gets A New Macintosh Iici

A Macintosh Iici has been added to the ACF's Visualization Center. Software currently available on the machine includes Chem-X and Mathematica.

---Reported by Jeffrey Bary

Graphic+ V 2
allow you to send and receive E-mail. With these accounts, you can exchange electronic mail with individuals here at NYU, as well as at other institutions on academic and research networks in North America and abroad. It is now also possible to send E-mail to people who have accounts on MCI-mail and CompuServe. In addition, these accounts enable access to electronic bulletin boards focusing on an assortment of academic, professional and recreational topics.

Already at NYU, there is a sizeable number of administrators and faculty members with ACF Electronic Mail Accounts. By and large, these are individuals who rely on personal computers — their own, or the ACF's — to fulfill their other computing needs or who use computers only to exchange E-mail. They are associated with a wide range of departments and divisions within NYU.

The ACF has worked to make Electronic Mail Accounts easy to get and to use. The interface is menu-driven with only a few simple choices, and the novice user is provided with tutorials, introductory documentation and consultancy support. For those who do not have access to a personal computer or a terminal, the ACF maintains several public sites on campus (see inside front cover).

These accounts are available to any member of the faculty or research staff or to any graduate student (at the request of his or her adviser). To apply, send a request on department letterhead to the Accounts Office, Academic Computing Facility, Room 305 Warren Weaver Hall; please include your name, title, campus address and phone number. If you have any questions, please call Jeffrey Bary at (212) 998-3049.

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**Data Base Archive**

**The ACF's Data Base Archive: Notes on Some Current Users**

As part of its function, the ACF's Data Base Archive (DBA) assists teaching faculty, research personnel, and graduate students, by easing the task of selecting and acquiring needed numerical datasets, and by helping them to process their data.

Beneficiaries of DBA activities come from a range of academic departments in various schools within NYU. The following are just a few of the current projects that have benefited recently from the services of the DBA. For want of space, we are unable to mention all of them here; more will be reported in subsequent issues of the Newsletter. In this issue, we focus on a portion of those associated with the Sociology Department (FAS).

Several research projects in the Sociology Department use the National Longitudinal Survey of the High School Class of 1972. These data are being used by Richard Peterson, Associate Director of the Center for Applied Social Science Research, and his associates, for a study titled "Child Care Arrangements and Work Outcomes of Men and Women: A Study of Dual Earner Couples". This research focuses on how husbands and wives share responsibility for child care arrangements, and on how these arrangements affect their work careers.

Maria Grazia Asselle is using other variables from the same rich data collection to study the impact of attendance of two- and four-year colleges upon gender inequality in occupational outcomes. Nam-Joo Kim, another graduate student in Sociology, is using these data in his study of "Determinants and Processes of Work Value Formation". He is examining determinants of the kinds of rewards (e.g., money, freedom to make decisions, job security) that workers value.

Professor Richard Maisel, also of Sociology, has made use of several data sets acquired through the DBA: his most recent Graduate Statistics I class, in the Fall 1989 semester, was organized around the analysis of the General Social Survey data file, collected by the National Opinion Research Center.

Last year, the course utilized a dataset from the American National Election Study, produced by the Center for Political Studies at the University of Michigan. His spring '90 courses in statistics and sampling will be using the County and City Data Book files of the Bureau of the Census.

Professor Maisel and his colleague, Professor Caroline Persell, are using several of the same data files, as they prepare computer programs for use in illustrating sampling procedures for a project funded by the Fund for the Improvement of Postsecondary Education (FIPSE). In other studies of voting behavior, Professor Maisel has been using the County and City Data Book, as well as other files from the U.S. Bureau of the Census.

The ACF's DBA holds and catalogs over 600 studies represented by some 2000 data files, and more are continually being acquired at the request of researchers at NYU. For additional information on, or help in making use of, the DBA's services, please contact ACF consultants Bob Yaffee (998-3402) or Bert Holland (998-3401).

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Jeffrey Bary and Estelle Hochberg
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Copies of the ACF/NYU Newsletter are available from the ACF Documentation Office, Room 306, Warren Weaver Hall (998-3036).
Educational and volume discount programs offered by vendors of computer products can result in substantial savings over regular costs — savings that might determine whether or not a department or faculty member can afford to purchase a particular software or hardware item, or to maintain it properly.

A number of departments within the University have entered into such discount agreements. The ACF is collecting information on these, with the purpose of passing it along to others within the NYU community who might be eligible to benefit directly from an existing discount agreement — or who might wish to arrange a comparable discount package for themselves.

This is the second of two articles. "Computer Discounts, Part 1" appeared in the November 1989 issue of the Newsletter.

Software

- SAS and SPSS/PC+ (versions for the IBM PC). Site licenses for these two statistical analysis packages were discussed in the November 1989 issue of the Newsletter. Copies are available from the ACF Documentation Office, Room 306 Warren Weaver Hall (998-3036).

- Personal computer software at discount through the NYU Book Center (Apple, IBM). The NYU Book Center offers a variety of software for Apple and IBM-type personal computers, often at excellent educational discount prices, which are available to holders of valid NYU ID's. Vendors with whom such educational prices have been arranged include Aldus, Ashton-Tate, Claris, Informix, Lotus, MicroPro, Microsoft, Wolfram Research, and WordPerfect.

The Book Center provides demonstrations of these software products at their Technical Support Center in Loeb Student Center (Mon. - Fri., 10 a.m. to 4 p.m., 995-3863 or 998-4672). A series of "vendor days", starting in February, will bring special open-house, hands-on demonstrations of personal computer products to the Center.

The Book Center recommends that prospective purchasers shop around and compare prices for each item of interest. Discount mail order houses and special sales at other stores in the New York area may occasionally offer better values than the Book Center's bargain prices. In addition, departments needing more than one copy of a software product should look into arranging a site license or discount agreement directly with the software vendor (see below).

- Arranging your own site license or volume discount agreement. This can be beneficial when as few as ten or twenty copies of a personal computer software product are needed, although typically savings improve as the quantity increases.

As an example, Steve Weinberg, Director of Computer Operations for the undergraduate college of NYU's Stern School of Business, has arranged a number of academic volume discount agreements involving such IBM PC products as Quattro and WordPerfect. Mr. Weinberg suggests that departments in need of multiple copies of an IBM PC or Macintosh software item do the following.

First check the Book Center, since, under educational agreements, they offer low prices for many products (see above). Next, whether or not the item is available at discount at the Book Center, see if it is possible to obtain your own site license or volume/educational discount. Call NYU Purchasing Services Division or, if you prefer, you might call the software vendor. While doing so, check whether the vendor will give you a better discount by basing it on the volume purchased by NYU as a whole, rather than on the quantity needed by your department alone.

Borland, Inc. gives substantial educational discounts (with, however, no end user support) for its PC products, which include Quattro, Sprint, Paradox, Turbo Pascal, Turbo C and Sidekick. Sometimes, volume discount agreements will provide multiple copies of the software, but accompanied by reduced documentation sets (or virtually no documentation). However, for a depart-

Please let us know...

If you know of any discount arrangements — whether their benefits extend to your department, your school, or to members of the University at large — please let us know. We will share your information in the next issue of the Newsletter.

Please contact Estelle Hochberg, at 998-3036 (Room 306, Warren Weaver Hall).
(continued from preceding page)

ment, one or two reference copies of a documentation set may suffice.

For example, under an agreement of this kind, Mr. Weinberg obtained multiple copies of WordPerfect 5.1 at a cost of about $30 per PC; master diskettes and keyboard templates were included, but reference copies of manuals were purchased separately. As another example, a site license with Software Publishing Corporation has given Stern ten copies of Harvard Graphics at $50 per copy, but with only one manual; the business graphics program retail "list" at $495 per copy.

In addition, Mr. Weinberg notes that hardware manufacturers occasionally offer "specials" in which their hardware is bundled with software. As an example, IBM offers several packages which include Microsoft Excel, Word, and Windows. Thus, departments can sometimes save by arranging for additional software when they purchase new machines.

- Janet and Multinet (BITNET and TCP/IP networking software for VAXes and MicroVAXes). The ACF has obtained licenses and quantity discount agreements for these. Departments wishing to benefit from these agreements should contact Ed Franceschini, at 998-3050; some cost sharing may be requested.

- IBM mainframes and minicomputers. An agreement with IBM provides selected VM system platform software programs — a large part of the VM system software — at no charge. The VM/CMS system is one of the two operating systems that run concurrently on the ACF’s IBM mainframe. Contact Ed Franceschini (998-3050) for further information.

**Personal Computers and Other Hardware**

- Discounts through the NYU Book Centers (IBM, Apple Macintosh, Zenith, and others, for personal purchases). The NYU Book Center at 18 Washington Place offers a full line of IBM, Apple, Zenith, and Toshiba personal computers. Although it is always a good idea to also check newspaper and magazine advertisements, the Book Center’s prices generally represent considerable savings, obtained through educational discount agreements. These are available to anyone holding a valid NYU ID. One can select one’s own configuration — of CPU, drives, monitor, and so on — or buy packages (which often include system and application software, as well).

  Free training courses are arranged for purchasers of Macintosh or IBM personal computers. In addition, the Book Center offers such post-purchase services as acting as an advocate for their customers with regard to warranty repairs, and directing them to sources of technical support. For further information, call 998-4672.

  Prospective purchasers can visit the Book Center’s Technical Support Center at Loeb for demonstrations of many of the personal computer hardware and software products which they stock (see above, under “Software”).

- Hardware discounts through NYU’s Purchasing Services Division. Departmental purchases of IBM, Apple, and Zenith personal computers and peripherals may be made through NYU’s Purchasing Services Division. The savings are identical to those obtained at the Book Center, and may surpass them for some types of purchases. For example, a “tiered” volume discount agreement with Apple offers markedly increasing benefits when the dollar amount of an individual order reaches specific levels. Under another agreement with SUN, many of that vendor’s products are available at discounts of 40%. Contact NYU Purchasing Services Division (998-1030) for details.

  Should departmental purchases be made through the Book Center or through Purchasing Services? Jennifer King, of the NYU Book Center, had the following suggestions on this. Generally, for Zenith computers, prices will be the same, and if the Book Center has the item in stock, purchasing from them will be faster than ordering from the vendor. The Book Center’s discount agreement with IBM, however, specifies individual — that is, personal, rather than departmental — purchases; thus, for example, if a department wishes to purchase an IBM personal computer for office use, the purchase must be made through IBM (via NYU Purchasing Services). For Macintoshes and other Apple products, if the department is buying in volume, then it will do much better by going through the Purchasing Services Division.

**Hardware Maintenance**

- Personal computers (IBM, Apple, Zenith, and others). Personal computer maintenance agreements and repairs can be obtained at substantial discounts under arrangements between the University and several vendors. Purchasing Services Division endorses three PC repair suppliers: Dataflex Corporation (1-800-526-6974) for IBM equipment, Key System (212-689-2300) for Apple, and Lewis Business Machines (212-477-1005) for Zenith. Each of these companies can service a variety of brands, but specializes in one, as noted above. All three suppliers offer annual service contracts, or repairs can be obtained at time-and-materials rates of $40 - $45 per
hour. Contact NYU Purchasing Services (998-1030) for information on warranty repairs.

- **DEC equipment.** Maintenance of VAXes, PDP-11's, MicroVAXes, and other DEC equipment is available at about a 39% savings, under a volume discount maintenance agreement with Control Data Corporation. A similar agreement with DEC gives an approximate discount of 24% off standard list price. Please call Stephen Krause (998-1032) for information on either maintenance agreement.

- **SUN systems.** Educational and nonprofit institutions receive 15% discounts on hardware maintenance of SUNs. Additional discounts based on such factors as volume, site location, multi-year agreement and pre-payment may be available. Contact Stephen Krause at NYU Purchasing Services Division (998-1032) for information.

**To be continued...**

Future issues of the Newsletter will include additional information on discounts and other sources of savings on computer products. In the March 1990 issue, we will also turn to the subject of shareware and public domain software.

—Estelle Hochberg

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**Newsletter Credits**

Special contributions to this issue were made by the following members of the ACF staff and associates (in alphabetical order): Jeffrey Bary, Gary Chapman, Ed Friedman, Bert Holland, Frank LoPresti, Stephen Rittersporn, Bill Russell, Stephen Tihor. Spring '90 Schedule production coordinated by Ron Casella. Additional production assistance provided by Ambika Nayar, Kenneth Padron, John Quinan, and Lu Ratunil. Cover illustrations courtesy of Cultural Resource, Inc., Professor David Miller, and Odesta Corporation.

**Newsletter Editor:** Estelle Hochberg  
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This issue was prepared on Apple Macintosh SE microcomputers, using Aldus' PageMaker and Adobe Illustrator (for special type treatment).

**Page design and Macintosh layout:** Debra Rudick and Ron Casella  
**Newsletter Design:** Valerie Sauers of NYU's Advertising and Publication Services

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**Student Registration for Computer Use**

Students whose courses are associated with Class Accounts on the ACF's VAX/VMS and UNIX systems must register for computer use. (Class Accounts on the IBM computer are obtained for students by their instructor.) To register, students must bring their computer-generated SIS course lists and a valid NYU I.D. to the 14 Washington Place operator's desk, starting January 22, during the following hours:

Mon. - Fri. 9 am - 11 pm.

Students in courses using the ACP's Macintosh and IBM personal computers must obtain an ACF Access Card. To do so, please bring your SIS list and your valid NYU I.D. card to the operator's desk at the Education Building site. Computer registration for Summer Sessions I and II begins on May 15. Hours will be posted via electronic bulletin boards and at ACF sites.

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**Information About The ACF:**

To find out more about the ACF, call 998-3058. If we cannot answer your question, we will find an ACF staff member who can.
Featuring:

- Microcomputer Workshops

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- Computer Discounts

- Courseware

- Spring '90 News Notes
  Supercomputers, mainframes, minis, micros, networks, graphics, E-Mail, and data bases