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Academic Computing Newsletter: February 1990

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Academic Computing
Newsletter

Academic Computing Services
State University of New York, College at Brockport
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Director's Column
E. Arthur Fiser

From time to time I believe it is useful to review and restate the mission of Academic Computing Services. It is particularly important that you, our customers, understand what services we can provide and the constraints that facilities or staff impose on our ability to provide support. First, and I hope most obviously, we are responsible for the operation of the academic mainframe computing system, presently the Prime 6350, and the public access laboratories. Within the laboratories, direct assistance for our users is provided; this support is not, however, intended to be a substitute for classroom instruction, rather it is intended to address problems encountered in 'using' the computing resources. The ACS professional staff devotes a major portion of their time to assisting faculty in the development of effective means of utilizing computing for instruction and in identifying and acquiring resources. The reality is that this development activity translates to many hours of personal contact with members of the faculty. The process may be slow and, for many faculty, frustrating. I believe, however, that the effort is worthwhile and ultimately rewarding for the faculty, our students and, the ACS staff. In future issues of the newsletter I will be addressing other aspects of our services.

Prime 2455 Arrival

In the continuing effort to provide consistent and reliable computing to the Brockport community, ACS recently installed a PRIME 2455. This small minicomputer will be used to provide a backup for the library DYNIX system as well as for development work (such as experimentation with TCP/IP) that would be disruptive to normal operations if done on the Prime 6350. Brian Volkmar, Systems Manager, indicates that the new system is a necessary component for efficient system backup and recovery, pre-production testing, and further enhancement of the computing performance already available to the campus.

Grant to Education

Brockport recently received a grant from IBM to establish a networked lab of IBM PC's to improve teacher education. M. Beers (Education & Human Development) is the coordinator of the three year project. The grant will provide an IBM PS/2 Model 80 fileserver, 15 networked PS/2 Model 25's, a desktop publishing workstation, InfoWindows, and strategic IBM education software.

"Computers in Education" Conference Planned for Brockport

'Technology Tools for the Classroom' is the theme of a conference to be held at Brockport on Tuesday, May 22. The one-day conference is expected to attract 150 area K-12 educators, media specialists, computer coordinators, and school administrators from the western New York area. All Brockport faculty, staff and students are invited to attend. The registration fee is $15 ($10 for full time SUNY Brockport students) and will include lunch.

The conference is being hosted with support from IBM. If you are interested in attending, presenting, or volunteering to help at the conference, contact M. Orzech, A. Parsons, or M. Beers or send E-Mail on the Prime.

Point Five Background and Update   A. Parsons

Brockport was the first four year SUNY college to site license Point Five, a PC software program for modeling and problem solving. Brockport staff worked with Dan Apple, the developer of the software, on the content design of the Basic Math Skills program that has become a required component of the College's core math curriculum.

Brockport piloted the Point Five Basic Math Skills Program during the summer of 1989. Hands-on workshops were conducted for 235 students. Dan Apple was on campus for a full day to test the software and workbook, to directly observe student response in the computer lab, and to present the initial instructional workshops as a model for Brockport staff who would in turn train faculty.

As a result of the pilot run, final changes were made to the program and Dr. Ann Luciano, the Director of Developmental Math, incorporated the Point Five Basic Math Skills Program into both levels of Brockport's basic math core requirement. A team from Academic Computing Services then conducted a workshop for all faculty scheduled to teach Quantitative Skills in the Fall.

In September, all freshmen enrolled in QNT courses (125 in 8 lower level sections and 475 in 15 upper level sections) were required to purchase the packet containing a Point Five manual, the Basic Math Skills Study Guide and the two program disks. During the semester the lower level sections used Part I while the upper level sections were to work on all three parts.

Not surprisingly, informal observation indicated that student reaction to the software and its perceived effectiveness varied from section to section. The enthusiasm with which it was used by students reflected the enthusiasm shown by the instructor.

Dr. Luciano plans to continue to use Point Five and the Basic Math Skills program in all QNT classes in the Spring; however, she will be adding modules developed at other institutions to the upper level course. By the Fall of 1990 she plans to develop a Study Guide tailored to cover the specific course content. Each topic covered in the course will incorporate computer based homework and completion of the assignments will be part of the course grade.

Dr. Luciano's overall assessment of the software program is reflected in her commitment to its use. She adds that "given the limited amount of time that we had to train faculty, the initial utilization and presentation of Part I went relatively well but more faculty workshop time is needed to fully utilize Parts 2 and 3.

Ms. Parsons observed that QNT faculty differed widely in their response to the program. "Their enthusiasm was closely correlated with their level of comfort with computers in general. Some instructors look forward to more closely tying the software into the course content. Some are already exploring the broader potential for Point Five."

Underscoring his continued interest in faculty training, Dan Apple made a return visit to the Brockport campus in January to further train faculty in problem solving using Point Five and to demonstrate some of the wider applications of its use. Dan stressed that once students have mastered the mechanics of Point Five in Quant Skills classes, the software becomes a tool they can incorporate in a basic toolkit of computer software they have at their command for critical thinking in other classes.

(Note: Dan Apple will be one of the featured speakers at the upcoming Computers in Education conference at Brockport, May 22. See related story above.)

TeX for Prime

TeX, a mathematical typesetting program developed by Donald Knuth and the American Mathematical Society has been installed on the Prime. This program permits great flexability over formatting and is especially useful for writing equations, formulas, tables and special symbols used in mathematics, business and many of the sciences. Results can be output to Apple Laser Writers. LaTeX and AMSTeX, two variations of TeX are also avaliable on the Prime. For further information on using TeX, see Donald Knuth, The TeXbook, Reading, MA: Addison Wesley, 1984.

Examples of TeX output are shown below. (Thanks to R. Shukla and T. Rao for providing samples.)

$$ax^2 + bx + c = 0$$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$x = \begin{pmatrix} 4 & 5 & 6 \\ 1 & 2 & 3 \\ 3 & 5 & 6 \end{pmatrix}$$

$$distance = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

$$ratio = \frac{numerator}{denominator}$$

$$i = \int \frac{f(x)}{g(x)}$$

New PC Software

Since the last newsletter, ACS has received the following software for IBM compatible PC's. Type PC_CONFIGURATION on the Prime, or see listing on page 7 for complete holdings of ACS PC software.

PC Browse (pop-up file scan and hypertext tool)
PC Lite (smaller, more compact version of PC Write word processor)
PaintShow Plus (graphics)
Inset 2.1 (utility to combine text and graphics)
Presentation Partner (slide show maker)
Microsoft Paintbrush v4.0 (graphics program, same as PC Paintbrush IV)
Lotus 123 v. 2.01 (spreadsheet)
PICK (multiuser operating system)

Campaign '88 Videodisk Available

ACS has acquired 'Election 88-The Campaign for the White House', a videodisk that utilizes Macintosh Hypercard software. The unique feature of the accompanying software is that it permits users to jump from one section of the videodisk to another depending on the user's choice; linear, sequential play is not necessary.

The videodisk includes audio and video segments as well as the ability to view newspaper clippings, and an instant comparison of issues between the two major political parties at the conventions as well as throughout the campaign. Instructors are encouraged to explore this unique combination of laserdisk and computing technologies or arrange for a demonstrtaion at ACS from 8-5 M-F by calling Mary Jo at 2368.

SPSSX Version 3.0

Brockport has served as a beta test site for SPSSX version 3 for the past six months. Finally, Version 3 has been officially released. ACS has maintained two versions during the beta testing cycle, but will support only the new version after May 1990.

Version 3 is now the default when one types SPSS or SPSSX, though the older version will remain on the PRIME till May and can be invoked by typing SPSS2 (for Version 2).

Thanks to everyone who contributed to the testing phase.

Conserving Paper   **F.Halley**

F. Halley (Sociology) passes along these tips to prevent needless printing of statistical output from SPSS and SCSS statistical packages. Many of these ideas generalize to other programs as well. With his permission, they have been excerpted and reprinted below:

1. Make sure students are instructed in the differences between binary and ASCII files. Do NOT spool binary files.

2. Encourage students to give their files meaningful names. Frequently students name files after pets, boy or girl friends, or football teams which have little or no relation to their function. For example, you might try giving your work files the name "WORK" and the files for the results of statistical analysis the name "RESULTS" to readily distinguish their purpose.

3. Insist that students examine files with an editor BEFORE they print in order to ensure that they print only what they need.

4. Do NOT print logs of data entry. This procedure creates short, repetitious lines that cover several pages and offer little information.

5. Do NOT open COMO (log) files when using EMACS, the full screen editor.

6. Use SPSS instead of SCSS, or, if students MUST use SCSS, teach them to interpret the SCSS wild code report and to use SCSS's data editing facilities to correct errors.

7. To ascertain if students have correctly entered their data in SCSS, have them write it to an ASCII file with the CASELIST procedure and print it using the Prime SPOOL command.

8. When possible, store common class datasets as SPSS system files so that students can simply access them with the FILE HANDLE and GET FILE commands.

9. Teach students how to use the DATA LIST command to identify just the variables they will be using for their assignments.

10. Students can also use the NOTABLE option on the DATA LIST command to reduce their output. If program statements do not need to be included in the output, SET PRINTBACK NO can reduce the output further.

11. Avoid specifying "ALL" when requesting Statistics and Printing Options.

12. Do not sweep through a data file by crosstabulating each variable with every other variable. Not only does this create excessive amounts of output, but it is bad science. Allow previous research and existing theory to discern salient variables on an a priori basis.

13. Occasionally files are spooled accidentally, or files are recognized as useless when they begin printing. Teach students how to cancel files being printed from their terminal. When a file is spooled, it is given a request number that appears on the screen immediately after the file is spooled.

If the request number of a spooled file is not known, typing the command:

SPOOL -LIST

will cause a list of all the filenames and their request numbers to be displayed at the terminal. To cancel a spooled file, simply enter the command:

SPOOL -CANCEL XXXXX

where XXXXX is the request number. It may take a minute for the file to stop printing. See the appropriate reference manual for further information on all commands discussed in this article.

Minitab Errata

In the last Academic Computing Services Newsletter, Larry Wallnau (Psychology faculty) was mentioned as the author of a textbook on MINITAB, a statistical package that runs on the PRIME. Dr. Wallnau informs us he did have a little help—his co-author, Fred Gravetter, (Psychology faculty) was inadvertently not mentioned in our newsletter. ACS apologizes to Dr. Gravetter for the omission. For those interested, the full citation is:

Gravetter, Frederick J., and Larry Wallnau. Statistics for Behavioral Sciences. 2nd. Ed. St. Paul: West Educational Publishing Co., 1988.

Lotus in Bookstore

The Campus Bookstore is now selling Lotus 123 v. 2.2 on 5.25" or 3:5" disks to Brockport Faculty, staff and students for $99. (This is not a misprint-$99.) This is the full version of Lotus (not a student version). You must show a valid Brockport ID to qualify for this price.

User's Guide

The Bookstore is also the place to purchase that other best seller, the "User's Guide to Computing at Brockport", a useful compendium crammed full of information to help you get started using computers at Brockport. The User's Guide to Computing is one of the best bargains in Brockport, priced at $2.75. Get yours now.

IBM Videotape Available

IBM recently donated a short 20 minute videotape depicting computing uses at other college campuses. The tape illustrates several innovative real-world applications of technology in discipline-specific areas such as entomology at Cornell, foreign languages at U. of Michigan and using computers to teach Special Ed. in Florida. The tape also shows a chemistry lab simulation and a simulation of a bridge collapse. It is available from ACS along with a videotape from Apple depicting a hypothetical computer of the future.

These tapes can be loaned to interested faculty, staff and students for individual use or community or campus meetings.

ACS Spring 1990 Seminars

Register in advance for the following sessions by calling ACS at 2368. All classes are held in ISL (AC13) of Academic Computing Services. A valid computer account is required for the Prime sessions and can be obtained by completing an application at ACS, M-F, 8 am-5 pm.

1. Introduction/Overview of ACS facilities
   (for new faculty and staff users- creating class
   accounts with ADDUSERS; hardware and
   software supported)
   Mon, Jan 29, 10-11 am or 1-2 pm

IBM PC Classes:

2. Introduction to MS DOS 3.2 (for new PC users)
   Tues, Jan 30, 2:30-3:30 pm or 6-7 pm.
3. Advanced MS DOS 3.2 (directories, batch files)
   Tues, Jan 30, 3:30-4:30 pm or 7-8 pm.
4. PC Write 3.0 (intro to word processing)
   Weds, Jan 31, 11-noon or 6-7 pm.
   Fri, Feb 2, 10-11 am or 2-3 pm.
5. PC File+ (intro to data bases)
   Thurs, Feb 1, 10-11 am or 1-2 pm.
6. Lotus 123 (intro to spreadsheets)
   Thurs, Feb 1, 11-noon, or 2-3 pm.
7. Point Five (math problem solving tool)
   Mon, Feb 5, 10-11 am, or 1-2 pm.

Prime Classes:

8. Intro to the Prime for new users
   Thurs, Feb 1, 3-4 pm or 4-5 pm
   Fri, Feb 2, 11-12 noon, or 3-4 pm
   Mon, Feb 5, 11-12 noon or 2-3 pm
   Tues, Feb 6, 10-11 am or 6-7 pm
   Weds, Feb 7, 2-3 pm or 3-4 pm
9. TeX (typesetting and text formatting)
   Weds, Feb 7, 9-11 am
   Weds, Feb 21, 9-11 am
10. SPSSX (statistics package)
    Fri, Feb 9, 11-12 noon or 2-3 pm
    Mon, Feb 12, 10-11 am or 2-3 pm
11. SPSS Graph (graphics package)
    Mon, Feb 12, 11-12 noon or 2-3 pm
12. MINITAB (statistics package)
    Tues, Feb 13, 10-11 am or 1-2 pm
13. SAS (statistics package)
    Tues, Feb 13, 11-12 noon or 2-3 pm
14. BITNET (worldwide communication network)
    Weds, Feb 14, 10-11 am or 1-2 pm
15. Kermit 2.32 (uploading and downloading files)
    Weds, Feb 14, 11-noon, or 2-3 pm.
16. PRIME INFORMATION (PICK database)
    Thurs, Feb 15, 10-11 am.

Cooper Contacts

One indication of growing computer activity on campus is the number of sign-ins made in the public access labs. During Fall 1989, 8,246 contacts were made in the Cooper facility. This figure does not include scheduled class use of the B8 lab area.

Spring Computing Course Requests

Every semester, Academic Computing Services requires faculty to indicate their projected use of the mainframe as well as PC computing in their classroom. This information is needed to plan for disk space on the PRIME and to anticipate PC usage. It has been suggested that faculty may be interested in these reports as well, since colleagues may be using similar packages or have tips for successful computing experiences. Here are the list of faculty who completed course request forms for Spring 1990:

Department	Name	Course	Computer	Software
Biology	D. Brannigan	BIO317, 221	Prime	Minitab
Biology	S. Chan	BIO281, 282	PC's	word processing
Biology	J. Hitzeman	BIO321	Apples,PC	Mechanical Properties of Act. Muscles
Biology	L. Kline	BIO302	Prime	Linkover and Evolut
Biology	D. Smith	BIO322	Apples	
Biology	E. Southwick	BIO111	Apples, Prime	
Business	D. Henderson	BUS325	PC's	Lotus 123
Business	J. Mason	BUS317	PC's	Lotus 123
Business	R. Shukla	BUS427	PC's,	Lotus 123
Computer Sci.	L. Betstadt	CSC101	Prime	BASICV
Computer Sci.	M. Eames	CSC101, 213	Prime	BASICV, Fortran
Computer Sci.	J. Habermas	CSC104	PC's	PC-Write, Lotus 123, dBase
Computer Sci.	T. Islam	CSC104,411,418	PC's	PC-Write, Lotus 123, DEBUG, ASM
Computer Sci.	K. Kim	CSC483	Microvax	
Computer Sci.	K. Lakshmanan	CSC203, 412	Prime,Microvax	Pascal, C, PRIMIX
Computer Sci.	T. Rao	CSC 406, 435	Prime,Microvax	LISP/PROLOG
Computer Sci.	H. Sanford	CSC104	PC's	PC Write, PC Calc
Computer Sci.	J. Snell	CSC390,311,401	Prime	editors, Runoff, PMA, FORTRAN, PL/I, C,LISP, Prolog, Modula-2
Computer Sci.	R. Winter	CSC104	PC's,	PC-Write, Lotus 123
Criminal Justice	O. Ebbe	CRJ471	Prime	SPSS, SCSS
Educ Admin.	S. Graczyk	EDA675	PC's	DOS, Lotus123, database, graphics
Educ & H. Dev.	M. Beers	EDI603	PC's	Point Five
Educ & H. Dev.	S. Cornish	EDI481	Apples	
English	A. Brand	ENL305	PC's	PC-Write
English	B. Guhde	ENL308	PC's	PC-Write, Lotus 123, PC-File+
English	D. Hale	ENL601	Prime	INFO
English	L. Hillman	ENL308	PC's	Word processing
English	V. Tollers	GEP250	PC's	Word process, database, spreadsheets
Math	C. Sommers	MTH442, 542	Prime	SPSSX
Math	T. Rockhill	MTH211, 471	PC's, Prime	RURFC, Math software, Pascal
Physics	S. Pribil	PHS308	Apples, Prime	
Polit. Sci.	D. Hemdal	PLS300	Prime	SAS, SPSS
Polit. Sci.	B. Jancar	PLS305	Prime	BITNET
Polit. Sci.	J. Martinez	PLS338	PC's	Strategem
Psychology	Wechkin/Gilles.	PSH112	PC's	POD
Psychology	F. Gravetter	PSH351	Apples	Applesoft Basic programs
Rec & Leisure	J. Donohue	REL411, 511	PC's	PC Write, PC File, Lotus 123
Sociology	F. Halley	SOC200	PC's, Prime	SPSS,SPSS/PC, instruct. written progs
Sociology	E. Lehman	SOC310	Apples,PC,Prime	word processing, SCSS
Social Work	C. Aponte	SWO310	PC's, Prime	word processing, SPSS
	All Sections	QNT110	PC's	Point 5, Algebra Computer Tutor
	All Sections	QNT 111	PC's	Point 5

PC Software Holdings at ACS as of 01/15/90

IBM PC software:

Operating Systems:
  Zenith DOS v3.2, v3.3+
  Zenith OS/2 v1.0
  PC DOS v3.2
Telecomunications:
  *Kermit 2.32
  *Procomm 2.42
Databases:
  Dbase III v1.1
  *Dbase III+ v1.0 Sampler
  *PC-File+ v2.0
  PC-File:db v1.0
Desk Top Publishers:
  Ventura Publisher v1.1
Spreadsheets:
  Lotus 1-2-3 v1a, 2.01
  Borland Quattro v1.0
  *PC-Calc+ v1.0
  *As-Easy-As v.3.0

Languages:
  IBM PC GKS v1.0
  DRI C v1.0
  Turbo C v1.5
  Turbo Pascal v4.0
  Microsoft C v5.0
  *Xlisp v2.0
  IBM Fortran v2.0
  IBM Pascal v2.0
  IBM Macro Assembler v2.0
  Microsoft Assembler v5.0
  Meridian Ada 2.1
  *FModula2 v1.0
  *PD Prolog v1.91
Word Processors:
  *PC-Write v3.02, PC-Lite
  MS Word v4.0
  Word Perfect v5.0
  WordStar Professional 3.31
  Professional Write 2.01

Graphics:
  Generic CADD
  Harvard Presentation Graphics
  Inset 2.1
  Microsoft Paintbrush v.4.0
  PaintShow Plus
  Presentation Plus
  Presentation Partner
  PrintShop & Companion
Misc:
  *RURCI (Calculus)
  *MicroEMACS v 3.8f
  Desqview v1.0
  Microsoft Windows
  Point Five
  Mathematica Demo
  Q & A v3.0
  PC Browse
  Grammatik 3.0
  PICK

Macintosh Software:

Telecommunications:
  *Kermit v0.9(40)

DeskTop Publishers:
  PageMaker v1.0
  Ready, Set, Go v4.0

Languages:
  Lightspeed C v1.0
  Lightspeed Pascal v1.0

Spreadsheets:
  Microsoft Excel v.1

Word Processors:
  MacWrite
  MS Word v4.0

Graphics:
  Mac Paint
  SuperPaint 1.1

* indicates the software is shareware or public domain.

Student Employees Wanted

ACS is always interested in recruiting students wanting to work in the public computing labs located on the ground floor of Drake and in Cooper. If you'd like to try your hand at the many tasks that keep our labs running smoothly and gain valuable experience in a computing environment, stop by ACS to fill out an application. You do not need to be a Computer Science major, or have computing experience; we will train. Positions are available for receptionist, operators and user consultants.

DIAL Access Phones:

From any phone:
300/1200 baud	637-2181
300/1200 baud	637-2191
2400 baud	637-2188
Port Contender	395-2191

From on-campus phones only:
300/1200 baud	ext. 2181

Set communications parameters to:
Full duplex, Parity=MARK or NONE,
Stop bit=1.

Do not use the 2400 baud phone
number if you do not have a 2400
baud modem.

Prime Status Line   395-2390
(A recorded message giving the current
status/availability of the Prime)

The ACS User's Guide is available in
the campus bookstore for $2.75

ACS Spring Hours:

Monday-Thursday	8 am - 11 pm
Friday	8 am - 8 pm
Saturday	12 pm - 8 pm
Sunday	1 pm - 11 pm

These hours subject to change, based
on availability of student employees.

ACS Staff

E. Arthur Fiser, Director of ACS
Office: 6th Floor Admin, ext. 5227

Brian Volkmar, Operations Manager
Office: ACS AC-3, ext. 2479

Mary Jo Orzech, User Services Coordinator
Office: ACS AC-11, ext. 2368

Anne Parsons, Computing Labs Coordinator
Office: Cooper B8, ext. 2293

Barbara Thaine, Secretary
ISL Reservations, ext. 2523

Spring 1990 Faculty Computing Support Survey

Please take a few minutes to complete this survey regarding computing support needs. ACS depends on hearing from you, our users, to define and clarify campus needs. Return responses to ACS. Thanks for your cooperation.

I currently: (please check all that apply)
_____1. do not use a computer
_____2. have a computer in my office
_____3. have a computer at home
_____4. plan to purchase a computer during 1990
_____5. require students to use a computer in at least one of my classes

If space could be designated as a 'faculty/staff only' computing resource area, I would use such an area:
_____1. frequently (more than once per week)
_____2. sometimes (once a week)
_____3. rarely (less than once a week)
_____4. never

To get to a 'faculty/staff only' computing area, I am willing to walk:
_____1. only within my building
_____2. to an adjacent building
_____3. to Cooper or Drake
_____4. other (please specfy)

Graduate students should be allowed to use this area too.
_____ yes
_____ no

I would use a faculty computing area: (please check all that apply)
_____ to type short in-house memos or letters
_____ to type professional correspondence
_____ to type grant proposals, articles, chapters, etc.
_____ to evaluate software to which I do not have access
_____ to prepare overhead transparencies for class and professional presentations
_____ to capture screens for PC slide shows to show in class
_____ to experiment with computer art, design, graphics
_____ to experiment with videodisk, CD ROM, and other new technologies
_____ to use authoring programs to develop courses or update my syllabi
_____ to fax information to colleagues
_____ to use desktop publishing for in-house publications
_____ to practice lecture delivery style incorporating various technologies
_____ to attend training sessions on new software
_____ to share information and provide informal assistance to my colleagues
_____ to scan in documents or graphics
_____ to attend training sessions on new software
_____ as a refuge from office telephones and interruptions
_____ to convert and/or transfer files (from 5.25" to 3.5" disks and vice-versa or from IBM disks to MAC disks and vice-versa)
_____ to upload and download files to mainframes
_____ for dial out/modem capabilities
_____ other _____

Regardless of the availability of a a faculty computing area I would like to see faculty training sessions on:
_____Copyright and ownership issues
_____Overview of authoring system and tools
_____Hypercard and hypermedia
Other_____

I would be interested in attending a SUNY-wide conference discussing the use of a particular class of software (e.g., Point 5 or Lotus 123) with teachers from other schools and disciplines:
_____yes
_____no

A PC loan program is needed (check all that apply):
_____for conference loans - short term requests up to 2 weeks for travel to make professional presentations.
_____for community presentations- 1 or 2 nights.
_____for classroom activity offsite.
_____for 1 month trial periods to evaluate a particular software program or group of programs.
_____faculty should be able to check out a PC for a whole semester.
_____I need a PC to be permanently housed in my office (and do not currently have one).
_____I do not foresee such a need for my work.

Regarding campus-wide computer networking (check one):
_____I would like my department to be networked on a small LAN.
_____My department doesn't need a LAN but we do need our PC's to be able to connect to the academic and adminstrative mainframes on campus, as well as to the outside world.
_____My department relies on sneakernet for exchanging data and it works fine.
_____I don't use computers; don't bother me.

ACS User's Guide (check all that apply):
_____I have used the ACS User's Guide to Computing at Brockport.
_____I encourage my students to buy a copy.
_____If it were updated, I would buy it.
_____I don't really need or use it.

The ACS User's Guide to Computing at Brockport should (check one):
_____contain less information—it's too complicated.
_____contain more information—it's too shallow, not in-depth enough.
_____remain about the same.
_____include a section on:_____
_____

Other comments about campus computing support needs (software and/or hardware requests, etc):
_____

_____

_____

Department:_____

Name (optional)_____

Please return to Academic Computing Services. Thank you.