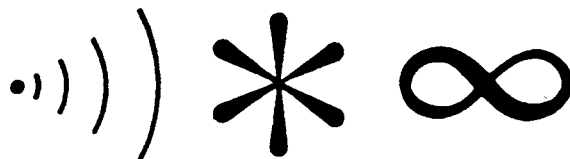


p·a·m

physics astronomy math



PAM BULLETIN

Vol. 18, No. 1

PAM Bulletin

August 1990

MESSAGE FROM THE CHAIR

First of all, many thanks to all those who made the Pittsburgh conference the success that it was, especially Bruce Pelz, our outgoing chair. The workshop leaders will tell you much better than I could about their sessions. However I will say that I always find the conference a useful, challenging, and friendly experience. That is the result of a lot of hard work done by a lot of people. Thanks again!

Thanks too to our outgoing officers and committee members including Cathy Van Atta (treasurer), and Dorothy McGarry (bulletin editor). Welcome to all those generous people who have volunteered their time to PAM; our new lineup is listed below. Make note especially of the awards committee and please help them out by making a nomination.

One of my objectives this year is to review and revise the by-laws. If you would like a copy of the by-laws for the purpose of assisting with the revision please let me know and I will send it to you (6 pages). The revisions will be presented to the membership for approval and/or comment in due course. I also hope to make up a procedures manual so that incoming volunteers will know what they are getting themselves into! Suggestions are welcome.

I would also welcome suggestions on any other aspect of the workings of PAM. I have positive proof that PAM is inspiring! The European astronomy librarians

have organized themselves into an informal group as a result of the Library and Information Services in Astronomy meeting held in 1988. For details see *The ESO Messenger*, No.60 (June 1990) p.19.

PAM Executive and Committee Chairs 1990-91:

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Marlene Cummins

PAM Bulletin

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**DEADLINE FOR NEXT ISSUE:
NOVEMBER 1, 1990**

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SLA/PAM MATHEMATICS WORKSHOP

June 12, 1990 10:30-Noon

Nancy D. Anderson, Coordinator

The greater part of the Mathematics Workshop this year was an informal presentation and question/answer session on the activities of the American Mathematical Society's Ad Hoc Library Committee. PAM members of this committee are: Nancy D. Anderson, Dorothy McGarry, Mary Ann Southern, and Jack Weigel (absent). Jim Rovnyak, Chair of this Committee, and William (Bus) Jaco, AMS Executive Director, were part of the presentation. The audience was composed of librarians from Notre Dame, Washington, Library of Congress, California/Davis, Cal Tech, Alberta, Stanford, Purdue, California/Berkeley, John Wiley & Sons, California/San Diego, AMS, Minnesota, Colorado, Michigan State, Kentucky, Michigan, Fermilab, Institute for Defense Analyses, Vanderbilt, NYPL, Eastern Michigan, Wake Forest, Indiana, Illinois, Penn State, California/Los Angeles, and Duke.

The AMS Ad Hoc Library Committee is the result of a letter Jim Rovnyak sent the AMS, asking how mathematicians use the library and what was the state of affairs of mathematics research libraries. The Ad Hoc Committee was charged to look into the following areas: 1) basic facts about mathematics libraries, 2) cost issues, 3) new technologies, and 4) information-seeking behavior of mathematicians. The Ad Hoc Committee reviewed the status of these topics for the workshop audience. Additionally, Bus Jaco announced that there was potential for this Ad Hoc Committee to become an AMS standing committee, acting in an advisory capacity on issues such as the AMS journal price surveys, weighing the value vs. the tremendous cost of electronic technology, and the MAA Basic Library List. The Ad Hoc Library Committee had

staffed a table in the exhibit area at the 1990 Louisville annual AMS meeting and had talked to mathematicians there about their library concerns. It was decided that the Ad Hoc Committee should attend the PAM workshop so they could hear from mathematics librarians.

In order to obtain information about libraries, a questionnaire has been devised which will be sent out in the autumn to all PhD-granting mathematics departments in the US and Canada. This library questionnaire is part of the annual AMS/MAA survey. The survey will be sent to mathematics department chairs with instructions to forward the library section to the librarian(s). There may be more than one response from a particular institution. Answering the questionnaire is viewed as a collaborative effort.

Librarians at the Institute for Defense Analyses asked if only academic libraries would be surveyed. The Ad Hoc Committee has not yet made a decision, but will consider if the questionnaire should be sent to all mathematics libraries (academic, corporate, and government research) even though the present focus of the questionnaire is on academic libraries.

Subjects addressed in the questionnaire are: 1) structure of the mathematics library, 2) policies and operation of the mathematics library, 3) space in the mathematics library, 4) the environment (in order to answer this very subjective question, the librarian will need to consult with a number of library users), 5) electronic media, 6) expenditures and income sources (respondents will be asked if they will share their data and will be able to obtain details of others' budget data unless they are not willing to share), 7) the collection in the mathematics library, 8) clientele served, 9) rating of the collection (again, a subjective question where the librarian will need to consult the users), and 10) ideal models of mathematics libraries (ditto). Analysis of the data obtained from this questionnaire will appear in the *Notices of the AMS*, although more

specific budgetary figures will be available to librarians.

Not much work has been done on the first three topics, but Janice Griggs, a graduate assistant in the Mathematics Library at the University of Illinois and an about-to-be mathematics graduate student, surveyed the faculty of the mathematics and statistics departments at Illinois on their information-seeking behavior. Had there been more time at the workshop, some of the results of this survey would have been announced. Nancy Anderson will use this preliminary report to formulate a questionnaire which will be distributed to all active mathematics researchers, hopefully this winter. It is an interesting field of study because a mathematician, with respect to his/her use of the library, combines traits of both scientist and humanist. And, more precise information, to supplement the anecdotal observations of librarians, would probably lead to better library service.

The discussion then moved on to cataloging and classification. Dorothy McGarry said that she would see if she could obtain permission to distribute to all interested mathematics librarians an excellent report on the cataloging of mathematics materials at the Library of Congress as prepared by Jim Starner, the mathematics cataloger. Write Dorothy if you are interested in obtaining a copy of this report (send a stamped, self-addressed envelope). Dorothy then asked the audience what their experience has been in cataloging collected works and journals, i.e., do we shelve them together or by subject? The consensus seemed to be that collected works should certainly be shelved together. The majority of the librarians said they shelve their journals together, sometimes without regard to the classification on the spine.

Carol Hutchins asked how do we math librarians influence LC to change subject headings. Dorothy McGarry replied that LC subject catalogers occasionally have come in the past to PAM work-

shops and could do so again. We could use PAMNET to discuss the subject headings we would like changed, Dorothy could respond, and then put a note in the math section of the PAM Bulletin. Also, Dorothy said that there are formal ways of suggesting changes/additions in subject headings to LC, and it may be possible to begin some of that. Juli Beall reminded the audience that Forest Press will be meeting in October 1990 and Spring 1991 to make major changes in Dewey 21. We should send our comments in soon.

Rebecca Lasher asked Bus Jaco to describe the electronic bulletin board system which the AMS is setting up. A prototype of the system (an info node on an Internet listserver of moderated and unmoderated bulletin boards, e-mail, news services, useful employment info, preprints of conferences, file transfers of public domain software, etc.) will be available at the August AMS meeting in Columbus. Workshops will be held at the January AMS meeting to train 200 local trainers. NSF will support the system for 3 years. There will be an announcement this fall. Can librarians be a part of this system?

As usual, we didn't get around to all the topics I had hoped to have discussed. Many of us think we should focus on statistics at some point as many of us collect in this area also. For example, Carol Hutchins mentions that she has never seen a ranking of journal titles in mathematical statistics. Can we use this column during the next year to bring up which topics concerning mathematical statistics we would like discussed at the 1991 PAM math workshop?

Also, has anyone yet received RLG's Long Term Serials Project for math serials? I ordered mine in April and haven't received anything yet.

MATH NOTES

MathSci Disc has expanded to 2 discs and now covers 1981-June 1990. MathSci Online will soon include a new subfile called the Stanford Technical Reports file. This file contains tech reports from the leading computer science research institutions, 1954 to 1990.

MathSciTeX for online use works only on Dialog's Format 4 records. It will not work on Knowledge Index. The SilverPlatter implementation of TeX (for use on PCs and Macs) is now in beta release and will be distributed to those who have requested it. We are also planning to develop a version for certain mainframes. Please give me a call if you are interested in TeXing MathSci records. Taissa Kusma: 800-321-4267.

SLA/PAM PHYSICS WORKSHOP

June 13, 1990 1:30-3:00 pm
Julie Kreunen and Paula Garrett,
Coordinators

Thanks to Sandra Moline from the University of Minnesota for taking minutes. Approximately 30 people attended the workshop. There was discussion of the following topics:

1) IEEE full-text:

Peggy Dominy reported on a test of IEEE's full-text database at Piscataway. The database includes selected conference proceedings, standards, and journals. There is an index disc for searching cites to full-text disc. Screen displays are crisp and clear. Sections of the display can be enlarged. Results are printed out on a laser printer complete with equations, and super and subscripts. There are fast, good help screens and good screen directions. The software is easy to learn. The hardware crashes sometimes due to handling of the discs. *Science and Technology*

Libraries, vol. 11, #1 will have a review of this product. A 386 processor is best; a 286 processor is ok but slower. Two test sites have had the system for two years, and they claim it is easy to use. Negotiations are in process among UMI, IEEE, and IEE on pricing, etc. IEEE and IEE member boards will have final approval. There is a need for networking capability and juke boxes. When approval is given, refinements will be determined.

2) Listservers:

PACS-L (Public Access Computer Systems Forum), is a listserver on OPACS from the University of Houston. To subscribe: SEND LISTSERV@UHUPVM1 SUBSCRIBE PACS-L <your name>.

For a list of Internet accessible library catalogs and databases, send e-mail to Art St. George: STGEORGE@UNMB (Bitnet) or STGEORGE@BOOTES.UNM.EDU (Internet).

When logging into online catalogs over Internet, always write down how to log out. Logoff instructions are usually not repeated. See *C&RL News*, Feb. 1990, p. 103-105. Carol Hutchins has copies of files on enduser use of Internet catalogs.

3) Henry Barschall/Gordon and Breach:

What we can do.... Inform faculty members on editorial boards of Gordon and Breach journals of G&B pricing policies.

The proceedings from the 14th International Conference on High Energy Accelerators are to be published in the G&B journal, *Particle Accelerators*. The ramifications of this decision affect library budgets as well as patron access.

4) Journal pricing/cancellations:

MIT, University of Texas, and Indiana University report a 15% cut. Texas has made use of automated circulation files to study journal usage. UCLA has cancelled duplicates and also conducted usage studies. Springer Verlag reports an average increase of 15% in journal pricing this year. An unidentified source claims 23%.

Use of *Current Contents* was discussed.

Routing tables of contents may provide grounds for a lawsuit. Systematic copying is the potential problem. Individual use of *Current Contents* online poses no copyright problem. Articles are available from UMI for \$12.00.

5) STN and PHYS discount program:

Needless to say, the people who had the flat fee program were upset when it was discontinued. There is a general consensus that STN is going for the bottom-line too hard and forgetting its users. Their answer is that the 80% discount program is the one to "best" serve us. Christopher Verdesi from AIP fielded questions as best he could regarding the decision; we hope that he brought our concerns for reinstatement of the program back to the STN reps AIP works with! Those institutions that had subscribed felt strongly that unlimited enduser searching was a great PR tool, as well as a way of creating a lot of awareness (among continuing searchers) of this STN database.

6) Comparison of PHYS and INSPEC:

David Stern (University of Illinois Physics Library (217)333-2101) is planning to publish a comparison of the PHYS and INSPEC databases. If you have either compared searches, or have searches you would like to see compared, notify him.

7) More on enduser searching:

Some institutions have had good experiences or are just inaugurating Dialog's Corporate Connection (a misnomer because it is a service whereby 100 passwords can be subscribed to, for ANY type of institution). A wide range of Dialog's databases are available in a MENU-driven mode, or by conventional search keys as people prefer. Demo accounts are available. If you are using this program, send your comments to Julie Kreunen who will write them into the next *PAM Bulletin*.

Updated information on how to search several databases created at Stanford Linear Accelerator Center was distributed. If you would like this information on searching the High Energy

Physics bibliographic database (HEP) via QSPIRES, or the institutions and e-mail listings, contact Louise Addis (Bitnet: ADDIS@SLACVM). For each institution wishing to have users searching QSPIRES there must be a node manager whom Louise can authorize.

PHYSICS NOTES

There is an upcoming NATO Advanced Studies Institute to be held in Fort Collins, Colorado, Sept. 1990 called Applications of Metallic and Ceramic Superconductivity.

A video tape of this workshop will be published by the National Technological University. In order to retain the tapes for more than 30 days a license is necessary, and NTU wants \$4500 for this license. Does anyone have any experience or ideas on dealing with this in a more economical way? You can respond directly to me via Bitnet: pgarrett@fnal

Paula Garrett

SLA/PAM ASTRONOMY WORKSHOP

June 11, 1990 3:00-4:30 pm
Karen Andrews, Coordinator

There were 26 people attending the SLA Astronomy Workshop in Pittsburgh. The following topics were covered:

1) SIMBAD:

SIMBAD (Set of Identifications, Measurements and Bibliography for Astronomical Data) was discussed during the workshop. Joyce Watson of SAO was not present, but recently provided the following up-to-date information: The SIMBAD database is at present in transition, both geographically and computerwise. At the end of June, the entire database was transferred from the Univac in Paris-Sud to a DECstation at the CDS in Strasbourg. Fortunately there was a period of

overlap, as there is new programming to be done in order for the new version, SIMBAD III, to function smoothly. Once established, we are confident that the new system (on UNIX) will be highly adaptable to new applications.

Your patience is requested in the interim cut over period. New usernames and passwords are required, and anyone who has not yet done so should contact SAO for a signup form so that we may issue these, together with instructions and a new edition of the *Catalogue Acronyms and Abbreviations in SIMBAD*. The access codes have changed and we will let users know the new ones for SIMBAD III. We hope to have a new edition of the user's manual ready by the end of the year. For more information please contact SIMBAD/USA, Smithsonian Astrophysical Observatory, 60 Garden Street, Cambridge, MA 02138, or call Joyce Watson (617/495-7264, Fax 617/495-7005).

2) Naval Observatory publications:

The completely rewritten version of the *Explanatory Supplement to the Astronomical Almanac* will probably be available by the middle of 1991. It will be published by a commercial publisher, not GPO or HMSO. All earlier editions are out of print.

Computer products: *The Computer Almanac*, which will replace the *Floppy Almanac*, will be available during the first part of 1991. The CA will cover 10 year increments, with 1990-2000 being the first available. It will be issued in MS-DOS and Mac versions, with the Vax version to follow at some later date. The Interactive Computer Ephemeris (ICE) will still be available for those requiring computer ephemerides for earlier dates. Although the ICE is not very user friendly, it will not be rewritten as there is very little demand at present for past dates. The *Satellite Almanac*, a floppy containing ephemerides for planetary satellites, is currently being revised and will be available in a few months. As this item is not automatically distributed, those libraries

wishing copies should request one from the Nautical Almanac Office near the end of the year. The floppy is issued with a printed user's manual.

3) EGAL

People wondered if the *European Group of Astronomy Librarians (EGAL) Bulletin* might be available to PAM members on a subscription basis. [Note: As of press time, Ellen Bouton has received no answer to her query to Anne Fishburn on this matter.]

4) U. of Illinois Preprint/Reprint Series:

This will no longer be sent on blanket plans. Institutions must write to the individual author or to the department to acquire a copy due to new charge-back rules.

5) *Astronomy & Astrophysics Abstracts* online:

Beginning with v. 49, (1989 literature part 1) *A&AA* is included in the STN database. Although the introduction to v. 49 leaves some confusion about what *A&AA* data might not be included in PHYS, Dr. Lueck tells us that all of *A&AA* is included online except for the brief notices and biographical sketches.

The Astronomisches Rechen-Institut in Heidelberg (ARI) will not sell the magnetic tapes separately because of an agreement with the Fachinformationszentrum Karlsruhe GmbH (FIZ), the producers of the PHYS database.

6) STN discounts to educational institutions:

STN International is offering an 80% discount on 37 databases for searches done between 5 pm and 5 am local time. Saturday the hours will be from 3 pm to 1 am eastern time. The INSPEC, CONF, and PHYS databases will be included. Two types of accounts will be offered under the STN Karlsruhe Academic Program: research and education. The research accounts are available only during the restricted hours noted. The education account allows files to be accessed at any time, but they must be used only for the specific purpose of teaching online searching. INSPEC will be available for research

accounts only. There is a \$25 fee to sign up for each academic program in addition to the \$25 fee to sign up for a regular STN account. For further information on the Karlsruhe Academic Program, call the STN Customer Service at (800) 848-6538.

There are reference user aids for searching the PHYS file, including one for astronomy and astrophysics. Contact STN at the number listed above to obtain. STN has promised to get a staff member who will specialize in the PHYS file. Since it is produced abroad, there is no one on staff in Columbus familiar with the indexing and searching of the database.

7) T-REX:

Robyn Shobbrook reported on the astronomy thesaurus project (fondly dubbed T-REX, with the appropriate dinosaur as logo) begun in 1988 at the request of Commission 5 of the IAU. She and the T-REX committee hope to have Version 3 ready to present to Commission 5 at the IAU General Assembly in Buenos Aires in July 1991. Although a tape version of the cross references was received from Lueck, it unfortunately was impossible to use due to a number of formatting errors and some missing data. AAO, therefore, has purchased a PC software package called Lexicon which will do cross references and produce hierarchical versions of the list. T-REX committee members will have their sections of Version 2 reviewed by scientific staff at their institutions, and will return revised versions to Robyn by October. Robyn and Bob Shobbrook will then proceed with revisions, changes, and preparation of Version 3. Testing and preliminary use of T-REX will continue when Version 3 is available; contact Robyn if you wish to participate in testing. There is interest among European librarians in doing translations of the thesaurus into several languages. Brenda Corbin plans to attend the Buenos Aires IAU, and will present Version 3 to Commission 5.

8) NED:

The June 1990 release of the NASA/IPAC Extragalactic Database (NED) is available

to the astronomical community world-wide for use on an experimental basis. NED is a computer-based central archive intended to accumulate a broad range of published extragalactic data, and organize them for fast and flexible retrieval via electronic networks.

The current version of NED provides positions, names and basic data for extragalactic objects, as well as related bibliographic references, and notes from catalogs and other publications. This version also offers browsing of the abstracts of recent articles of extragalactic interest from the major journals (*A&A*, *AJ*, *ApJ*, *MNRAS*, *PASP*, and the associated *Letters and Supplements*). Future releases will provide data from the current literature and from catalogs, and tools for obtaining file versions of the data retrieved.

The NED service may be accessed using either one of two electronic computer networks: (a) From a computer which is part of internet, a connection to IPAC is set up by typing at the system prompt: telnet ipac.caltech.edu. (b) From a node on the SPAN network, a connection to IPAC can be established by typing at the system prompt: set host IPAC. Either way, you need to have a VT100 terminal, or a software emulation of such a terminal to use the NED interface. Once you are connected to IPAC (this is a SUN workstation) and prompted for a login, please respond with: NED; no password is needed. From this point on, the system is self-documenting, especially through the HELP utilities and the <control-H> key. In case of problems that require special attention, you may contact one of the following:

George Helou	(818) 584-2928 helou@ipac.caltech.edu
Barry Madore	(818) 584-2912 bfm@ipac.caltech.edu
Marion Schmitz	(818) 584-2994 zb4ms@ipac.caltech.edu

9) Electronic version of
Astronomy & Astrophysics Monthly Index:
Sarah Stevens-Rayburn gets a monthly

listing of *Astronomy & Astrophysics Monthly Index* from Helen Knudsen via e-mail and loads it onto a computer. The electronic version runs a couple of months ahead of the printed copy. Helen also provided a separate program that does selective dissemination of information using simple Boolean capabilities. There are about 500 blocks to each month's list. Contact Helen if you are interested in receiving this.

ASTRONOMY NOTES

IAU Symposium 140 (Galactic and Intergalactic Magnetic Fields) has been published and distributed. If you have a standing order and have not yet received your copy, you should probably claim from Kluwer in Massachusetts. Apparently there is a new person doing standing orders, and there was particular confusion over standing orders for paper editions. Neither 137 nor 139 have been published yet.

I sent my claim as an e-mail message to Kluwer's new e-mail address: kluwer@world.std.com and received a reply by e-mail. If you use the e-mail address for a claim or for other communication with Kluwer, be sure to put Attn: Steven Dane (or Gert Kiers, or any other person you want to reach) either as the subject or the first line (or both) of the message since this is a general Kluwer address rather than the address of a specific person.

IAU Information Bulletin 64, June 1990, states that *IAU Colloquia 118* (Dynamics of Small Bodies in the Solar System) and *IAU Colloquia 119* (Comparative Planetology and the Origin of the Solar System) have been cancelled. They were originally scheduled to be held in Nanjing in June 1989 but were postponed. The Scientific Organizing Committees now feel there is insufficient interest in either meeting from outside China. The note in the *Bulletin* ends with the statement, "Librarians should note the break in the *IAU Collo-*

quium Series."

All copies of the June issue of the *Astrophysical Journal Supplement* have a missing page on p. 158 at the end of the article by Antonucci. The production manager has said that *ApJ Suppl.* will do the following: 1) reprint the entire issue with p. 158 included. The charge for a replacement issue is \$13.00. 2) reprint p. 158 as a single page. The single page is available free. 3) reprint p. 158 only as an erratum in the Nov. 1990 issue of the *Supplement*. Contact the production manager at the Chicago address for copies of either 1) or 2).

Ellen Bouton

Contrary to what it says on the cover, *Preprint* 738 from the Five College Radio Astronomy Observatory is NOT going to appear as a *ST Sci Preprint*. Rather, it will appear in a small collection of poster abstracts from the May ST Sci Workshop on Massive Stars in Starbursts that will be distributed to the participants and to selected libraries. To assure that your library is on the distribution list, please send a request to: library@stsci (Bitnet). Cambridge University Press will publish the contributed papers.

Sarah Stevens-Rayburn

John Cornett at Sac Peak Observatory is looking for *Revista Mexicana de Astronomía y Astrofísica*, vol. 2. If anyone has a duplicate, please contact John Cornett, National Solar Observatory, Sacramento Peak, Sunspot, NM 88349. Bitnet: library@sunspot.sunspot.noao.edu

ADDRESS CHANGES

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Shabb, Cynthia H.
(Add work address)
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Bitnet: Shabbch@vuctrvax

Walker, Celine F.
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Bitnet: walker@unicc

NEW MEMBER

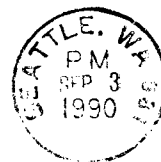
Berliner, Barbara
249 East Brinkerhoff Ave.
Palisades Park, NJ 07650
(212) 340-0859

If anyone has not yet received their copy of the 1989-1990 Membership Directory, send a note to Helen Knudsen, 105-24 CalTech, Pasadena, CA 91125.

JOB OPENING

There is an opening for a librarian in the Science Division at the European Southern Observatory Headquarters in Garching near Munich, Germany. Requires degree or experience in library science, experience in scientific or technical library and computerized library systems. English required with working knowledge of German and French. Duties include management of main library at ESO headquarters and support of branch library in Chile. Each library contains 25,000 books and 200 periodicals and serves about 150 ESO scientists and engineers as well as hundreds of visitors. Basic monthly salary (tax-free) will be between DM 4341 and DM 6644. Non-resident allowances may be added. Applications due 10/15/90. Contact: ESO, Personnel Services, Karl-Schwarzschild-Str. 2, D-8046 Garching b. München, Germany, Tel. (0 89) 320 06 216-9. Vacancy notice no. ESD401.

Murdoch
Mathematics Research Library
University of Washington, GN-50
Seattle, WA 98195



475142
John W. Veigel II
Univ of Michigan
Phys-Astron Libr
290 Dennison Bldg
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48109