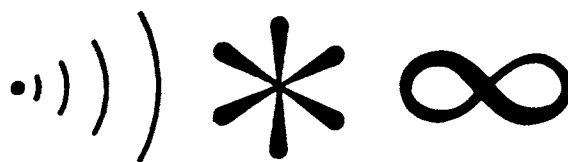


p·a·m

physics astronomy math



VOLUME 14 NO. 1

AUGUST 1986

MESSAGE FROM THE CHAIR.....MARY ANN SOUTHERN

The Boston Conference was interesting and enlightening, attracting both large numbers of exhibitors and SLA members. Particular thanks go to Joyce Rey-Watson for planning such a successful meeting and for hosting the "Astronomy Day" at the Harvard-Smithsonian Center for Astrophysics. P-A-M owes special gratitude to Bill LeVeque for hosting a most interesting tour of A.M.S. and to both Bill LeVeque and William Koch of A.I.P. for a discussion of "What Can CD-ROM and Optical Disk Technology Do for Us?" We appreciate too the efforts of our workshop leaders and their speakers -- Yvette Woell, physics; Emerson Hilker, math; David Stern, astronomy; and Barbara Netzley, computer science. (Reports of some of the workshops may be found elsewhere in this issue.) Credit also goes to our outgoing Treasurer, Barbara Chu, and to the members of our three standing committees: Nominating, Awards, and Membership, for jobs well done. (Members of committees for the coming year are listed elsewhere in this issue.) In addition, I would like to welcome our new officers, Camille Wanat, Chair-elect, and Bruce Peiz, Treasurer.

Congratulations go to Judy Bausch who was awarded, in absentia, the P-A-M Award for the Union List of Astronomy Serials. Mention must also be made that our debt to SLA Headquarters for ULAS is now paid, and WE'RE IN THE BLACK.

Although the Minutes of the Annual Business Meeting are included in this issue, I would like to comment on two items of special interest. First is the addition to of P-A-M Membership Directory of a Field of Interest listing for those with collection development responsibilities in Computer Science. All of you have probably already received Nancy Anderson's questionnaire; she reports that the response so far has been excellent. Since such a list is invaluable when seeking workshop leaders, I am sure that all future Chairs will thank the Membership Committee for this addition.

Another subject of particular interest at the Business Meeting was that of fund raising. A motion was passed to investigate the possibilities and ramifications of advertisements and/or sponsorship of the P-A-M Bulletin, and if a positive decision is made, to appoint an Advertising Manager, someone other than the Bulletin editor. An Ad Hoc Committee on Fund Raising has since been appointed with David Stern as Chairman. If any of you have prior experience of such matters at either the Chapter or Division level, I am sure that David would appreciate your input.

Plans are being finalized for the 1987 Anaheim conference. There will be a continuation of the CHEM/P-A-M program on Nonbibliographic Databases. We will have our usual four workshops with a second Astronomy meeting to be held in the Division suite. We are considering a vendor update session for A.M.S., A.I.P., INSPEC, and possibly I.S.I. In addition, two tours are being planned. Six divisions, including P-A-M, are sponsoring two separate tours to JPL. One half-day tour will include JPL and lunch and tour of CalTech, and a full day tour will include JPL, lunch at Lawry's, and the afternoon at the Queen Mary and the Spruce Goose. P-A-M also hopes to offer a full day tour to Palomar Observatory. Hope to see you all in Anaheim!

Please let me know your concerns and suggestions for P-A-M. I am particularly interested in how P-A-M can better serve the needs of those of you who cannot attend the annual conference.

The P-A-M Bulletin is published by the Physics-Astronomy-Mathematics Division of the Special Libraries Association. The Bulletin is issued four times each year: in August, November, February, and May. Subscriptions are free to P-A-M members and retired P-A-M members. Paid subscriptions are accepted: the cost is \$8.00 per year. Checks should be made payable to PAM-SLA.

Editor: Judith A. Bausch (414-245-5555)
Yerkes Observatory Library
P.O. Box 258
Williams Bay, WI 53191

Production Assistant: Robert Bausch

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313-764-3442

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COPY DEADLINE: 1 November 1986 (for November issue)

MINUTES OF THE PHYSICS-ASTRONOMY-MATHEMATICS DIVISION BUSINESS MEETING -- JUNE 9, 1986  
 BONNY HILDITCH, SECRETARY

Meeting commenced at 1 p.m. Meeting minutes from the 1985 Business Meeting were approved. The Treasurer's report was read by Marlene Cummins on behalf of Barbara Chu, who could not attend. Copies were distributed to the Division officers.

Nancy Anderson presented the Membership committee report. The Division has approximately 150 members. This number has been estimated because computer problems at the Association level have produced inconsistent records or no records. The Association hopes to correct these problems soon.

Acknowledgement was made to the American Mathematical Society for production of the membership directory again this year. Copies of the directory were distributed to those present.

Brenda Corbin gave the Nominating committee report. Election results were announced. Camille Wanat is the new chair-elect, and Bruce Pelz is the new treasurer.

Bruce Pelz read the Awards committee report. The P-A-M Divisional award was given to Judy Lola Bausch for her work on the Union List of Astronomy Serials.

Joyce Rey-Watson announced that the P-A-M Division has paid off the loan acquired to finance the Union List of Astronomy Serials. Any profits made from future sales will go the Division.

NEW BUSINESS:

Since P-A-M is now responsible for the Computer Science workshop every other year, Mary Ann Southern requested that a Field of Interest listing for those collecting in Computer Science be added to the P-A-M Directory. (The Field of Interest listings in the Directory are very useful when seeking workshop leaders.) Discussion arose concerning the definition of computer science since most libraries now collect computer science materials as applied to the subject speciality of that library. The Field of Interest list, however, should be for only collections of computer science as a unique subject. Nancy Anderson asked those present to inform her of such collections and discussed the mechanics of adding a new section to the Directory. Jack Weigel commented that the Division should possibly cooperate with the Engineering Division as well, or instead of, the Sci-Tech Division on future programs in order to broaden the scope of our sessions.

It was moved (Marlene Cummins) and seconded (Camille Wanat) that the Division continue to provide special labels to attach to conference badges to make it easier for P-A-M Division members to identify each other. The motion was unanimously passed. Bruce Pelz will look into this and also the mechanics of employing the t-shirt emblem on these labels.

Division members discussed the Association's request that all Divisions consider the formation of committees for long-range planning, networking, and fundraising. Discussion highlights follow:

It was suggested that the newsletter could be used to develop networking for the Division.

Fundraising could be accomplished in part by accepting advertisements for the Bulletin. Specific issues could be underwritten by a single sponsor, or by multiple sponsors, or possibly advertisements could be limited to one per bulletin. It was agreed that the Bulletin editor should not be the person responsible for selling or rounding up advertisements, and that this function might better be served by a public relations person.

Members present rejected the formation of a long-range planning committee.

ANNOUNCEMENTS:

P-A-M program on CD-ROM, with Bill LeVeque and Bill Koch as speakers, was announced.

Linda Hall Library reception reminder.

Brenda Corbin announced that the IAU 1988 General Assembly will be held in Baltimore. The meeting will be preceded by the IAU's Commission 5 (Documentation) meeting in Washington, D.C. The Documentation meeting is tentatively scheduled for July 28-30, 1988.

Vivian Arterbery distributed a questionnaire on behalf of the Association Long Range Planning Committee. Members present were asked to rank proposed tasks listed in order of what they thought were most important and return the forms to her.

Vivian also encouraged all members to vote when they receive SLA ballots. The next ballot to be mailed will be to change the SLA Bylaws by lowering the voting quorum. Since the voting response has not met the required quorum for some years now, there is a considerable backlog of issues needing resolution to conduct Association business.

Places were still available for the field trip to the Center for Astrophysics. Interested members were asked to see Joyce.

Mary Ann Southern announced that four workshops have been scheduled for the 1987 Anaheim conference, including one on computer science. Other sessions scheduled include one cosponsored with the Chemistry Division on full text databases. Field trip plans are not yet completed. Possibilities include a JPL tour with full and half-day options, or maybe a Palomar trip.

It was moved (Helen Knutsen) and seconded (Carol Hutchins) that advertisements be accepted for the Bulletin if this practice would not adversely affect the funding for future division open houses. The motion was passed.

The meeting was adjourned at 2 p.m.

#### COMMITTEE APPOINTMENTS:

##### Awards Committee

Jack Weigel, Chair  
University of Michigan

Sarah Stevens-Rayburn  
Space Telescope Science Institute

Yvette Woell  
Argonne National Laboratory

##### Membership Committee

Nancy Anderson, Chair  
University of Illinois at  
Urbana-Champaign

Merry Maisel  
San Diego Supercomputer Center

Cathy Van Atta  
Kitt Peak National Observatory

##### Ad Hoc Committee on Fund Raising

David Stern, Chair  
Arizona State University

Judy Bausch  
Yerkes Observatory

Marion Kreiter  
University of Pennsylvania

Don Marion  
University of Minnesota

Kathy Strand  
High Altitude Observatory

##### Nominating Committee

Brenda Corbin, Chair  
U.S. Naval Observatory

Others to be appointed by  
January, 1987

#### Head Librarian

for international bibliographic journal to manage group of 2 senior librarians and 8 clerical staff. MLS with 5-7 years library experience and 3-5 years supervisory experience. Excellent command of English and fluency in at least one foreign language. Salary commensurate with experience. Send letter of interest and resume to Dr. William B. Woolf, Managing Editor, Mathematical Reviews, 416 Fourth Street, P.O. Box 8604, Ann Arbor, MI 48107.

Membership Report.....Nancy D. Anderson, University of Illinois at Urbana-Champaign

## WELCOME NEW MEMBERS:

Joanne M. Goode  
University of Kentucky Library  
Math Science Library  
0B-9 Patterson Office Tower  
Lexington, KY 40506  
(606) 257-8365

Cathy C. Greene  
241 Andover St.  
Andover, MA 01310  
(617) 253-1290

Yvonne R. Hinks  
University of Calgary  
Environ-Sci-Technol Library  
2500 University Drive NW  
Calgary, Alberta  
Canada T2N 1N4  
(403) 284-5966

Heidi Mercado  
333 Canyon Dr. N  
Columbus, OH 43214  
(614) 422-2009

Cynthia M. Miller  
3033 E. Sixth St. D20  
Tucson, AZ 85716

Ellen D. Rawlings  
Addison-Wesley Publ. Co.  
Retail Sales Group  
Jacob Way  
Reading, MA 01867  
(617) 944-3700

Robyn Shobbrook  
Anglo Australian Observatory  
P.O. Box 296  
Epping, NSW 2121  
Australia  
(02) 868-1666

CHANGES  
Thomas W. Conkling  
State College, PA 16803

Marlene Cummins  
University of Toronto

Joan E. Gantz  
(818) 304-0234

Susan E. Hill  
1710 Wooten Park Dr. Apt. 204  
Austin, TX 78758  
(512) 471-1313

Betty R. Holmstrom  
Steward Observatory  
Parker Room Library  
University of Arizona  
Tucson, AZ 85721

Estelle R. Karlin  
107 Arnold Rd.  
Newton Center, MA 02159

Derek M. Kozikowski  
RR #1, Box 1110  
New London, NH 03257

Lynn A. Labun  
5 Aspin Ct.  
Pittsburgh, PA 15215  
(412) 268-2427

Sherrie L. Latham  
Litton Laser Systems  
Market New Bus  
P.O. Box 7300  
Orlando, FL 32854  
(305) 297-4477

Alice Primack  
Physics/Astronomy Reading Room  
261 Williamson Hall  
University of Florida  
Gainesville, FL 32611  
(moving in Fall/Winter to new Central Science  
Library!)

Ann M. Robertson  
4431 Lemac  
Houston, TX 77096

Sarah Stevens-Rayburn  
Space Telescope Science Institute Library  
3700 San Martin Drive

Philene E. Vatvods  
(213) 607-5629

## CHANGES (CONT.)

Alexander Williams  
61 Stow Road  
Harvard, MA 01451

DROPS:  
Leroy N. Raspa

Please help correct the Membership Directory. Over the years errors have crept into the listings. Some of you have already alerted me to some of the inaccuracies. I would appreciate it if all of you would check your information in the alphabetical listing AND geographical AND subject. Also, some of you work at institutions which are changing telephone systems. Please let me know your new telephone number(s). Send corrections to Nancy Anderson, Membership Chair.

Information note: Some of you have asked why you are in the general listing when, in fact, you are an astronomy librarian, etc. Please note that I cannot assign subject interests -- astronomy, mathematics, and/or physics -- unless you tell me to do so. That's why it's important to provide that information to the membership Committee. This year the other members of the committee, Merry Maisel and Cathy Van Atta, will be polling the members about the listing in the computer science subject field. At the same time, we will try to obtain business addresses, telephones, and reduce the number of members listed in the general category.

### THANKS TO OUR SPONSORS

**The Physics-Astronomy-Mathematics Division thanks the following organizations for their financial contributions to the Division's activities at the Boston Annual Conference. Their continued support and interest are greatly appreciated by all P-A-M members.**

**American Institute of Physics  
Elsevier Science Publishing Co., Inc.  
Faxon Co., Inc.  
INSPEC  
Institute for Scientific Information  
Pergamon Press, Inc.  
Springer-Verlag New York, Inc.**

**We wish to thank the American Mathematical Society for once again printing the P-A-M Membership Directory.**

Astronomy Workshop ---

Dave Stern, Arizona State University

## 1) magnetic tape inventory

-- In an attempt to compile a list of holdings (which various observatories are doing already) I requested that any lists in existence be sent to me, and I will compare/contrast and attempt to develop a master list (if possible).

-- It appears that the majority of libraries do not maintain the magnetic tapes, either the individual scientists or the computer personnel access them.

--NSSDC Astronomical Data Center Bulletin - Status Reports, Data Listing, Newsletter, Document Availability and Distribution Services (4/86). These sources list the available tapes, which can be copied upon request.

## 2) National/International Network for Information Transfer

-- BITNET (VAX electronic mail)

-- Compiled a list of password-node codes:

| NAME            | PASSWORD                       | NETWORK        |
|-----------------|--------------------------------|----------------|
| Rey-Watson      | JOYCEMR@CFA1                   | BITNET         |
| Maisel          | MAISEL@SDSC                    | BITNET         |
| Stevens-Rayburn | LIBRARY@KEPLER                 | BITNET/ARPANET |
| Stern           | IACDHS@ASUIC                   | BITNET         |
| Southern        | DUKPAM@TUCC                    | BITNET         |
| Cummins         | ASTLIB@UTORPHYS                | BITNET         |
| Hutchins        | CAROL@IUVAX.UUCP               | ARPANET        |
| Bouton          | LIBRARY%CVAX%DEIMOS@CIT-HAMLET | ARPANET        |
| Zachariasen     | NANCY@CIT-VAX                  | ARPANET        |
| Knudsen         | ?CITPHOBOS::CIT:LIB?           | CITNET(?)      |
| Addis           | ADDIS@SLACVM                   | BITNET         |

--There has been a successful ASU - SAO transfer using BITNET.

--Other possible electronic mail options (Dialmail, etc) were briefly discussd; however, there are plans to develop a nationwide (possibly world-wide) mail capability through NSSDC and NASA cooperative efforts, so we may wait and see what develops.

--I had originally planned to outline how to send brief messages using these systems; however, I discovered that every VAX has slightly different protocol requirements, and that you will need to scan your user's manual or talk to a local expert. Trust me -- it is not difficult at all.

## 3) ASTHMA (A &amp; AA) online database availability

--not on a commercial vendor yet, BUT it is due to come up on STN as a separate database in 1987(?)

## 4) Karlsruhe's Monthly Service in Astronomy and Astrophysics (Physics Briefs) current awareness index/abstract

--a new source of current awareness, but no one has been able to determine its currency/value yet.

## 5) ESO/SRC Sky Survey update

--they are stored both by hanging in cabinets (where the weight creates problems) or by being stacked on shelves (as long as theyr are kept away from heat).

--any order for material will provide only the currently produced releases for now, and then the entire earlier transparencies will be reproduced.

--in addition to the quick blue and red, and the final blue and red sets (which are still being produced), the J Survey 2nd edition was produced.

## 6) IRAS reports/tapes/catalogs

--whaich are available, and in what format

--how are they being identified/purchased/received

These questions (and more) may be answered by Rosanne Hernandez an the Infrared Processing and Analysis Center (IPAC) at CalTech).

--when will GPO depository volumes appear -- unknown, more info when available.

## 7) new Palomar Survey -- any new dates/ price

They will be available in eight installments over a six-year period. More info when available.

## 8) Other online astro info databases (biblio or non-biblio)

--SIMBAD (Dr. Daniel Egret)

--BSI (through 1979)

- Lunar and Planetary Bibliography
- SPAN
- STARLINK

These were briefly discussed, and demos were given at the Thursday field trip to CfA.

9) Progress on filming of 19th century to optical disk

--Progress is being made; contact Brenda Corbin for details (U.S. Naval Observatory, Washington, D.C.)

10) Brenda Corbin announcements:

1) The Union List of Astronomy Serials has now broken even, and the SLA loan was paid off completely. A new, international Union List will be begun in the near future.

2) International IAU meeting will be held in 1988 in Washington, D.C. area -- all librarians are encouraged to attend if possible. More info as it becomes available. Tentative dates are July 28-30, 1988, at the Un.S. Naval Observatory.

3) The new Astronomical Almanac will be out on time, PLUS the availability of a "FLOPPY ALMANAC" on 5 1/4 inch diskette.

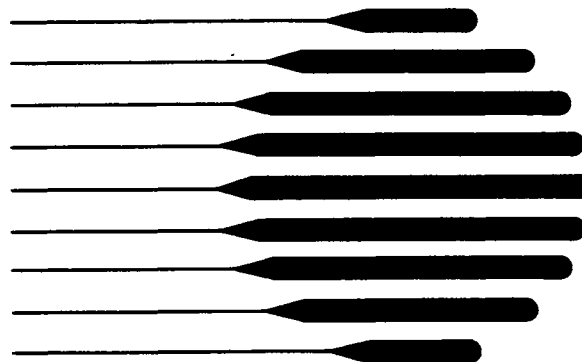
11) Sarah Stevens-Rayburn has once again provided the astronomical community with an invaluable service: a list of meetings compiled from preprints received by STScI and NRAO, and arranged by year and month. The list will be updated and distributed yearly. Additions, corrections, and requests for copies should be addressed to Martin A. Smith, Assistant Librarian, Space Telescope Science Institute Library, 3700 San Martin Drive, Baltimore, MD 21218 USA.

An update to Sarah's IAU Colloquia listing ( 15 April 1986) is also available now from the above address.

12) Finally, a comparison of journals included in INSPEC and A&AA has been compiled and is available from Marlene Cummins, Librarian, University of Toronto, Department of Astronomy and David Dunlap Observatory.

Thank you to all present, and I hope to see you all again next year.

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## ASTRONOMY NEWS

## 1) IPAC -- Infrared Processing and Analysis Center (The IRAS data analysis place)

Contact: Roseanne Hernandez, Librarian

IPAC

100-22 CalTech

Pasadena, CA 91125

(818) 584-2902 ext. 960

## 2) New Palomar Survey

Contact: Ann Palfreyman (Palomar Office)

105-24 CalTech

Pasadena, CA 91125

(818) 356-4033

## 3) Zwicky 1 - Catalogue of Galaxies and Clusters of Galaxies (volume one)

Contact: H. Z. Knudsen

Astrophysics Library

105-24 CalTech

Pasadena, CA 91125

(818) 356-4008

HZK will make available one copy of Zwicky Vol. 1 for photocopying purposes only. CalTech copy to be returned to HZK, so that the next requestor will have a chance.

4) Barry Madore's atlas, which was to have been published by Clarke-Irwin, will now be published by Cambridge University Press and distributed, probably at the end of summer, for the same price.

5) Proceedings of the Conference on Jets from Stars and Galaxies, held at the Canadian Institute for Theoretical Astrophysics, Toronto, Canada, June 24-27, 1985, were published in the Canadian Journal of Physics (April 1986). A separately bound volume may be obtained to \$20 Cdn (\$14 for individuals): from CITA, Room 1202, University of Toronto, 60 St. George Street, Toronto, Ontario, Canada M5S 1A7.

6) USNO provides monthly nightly sky information. An AT&T "Dial 1 + 900" service available on the first Sunday of every month for 7 days. (50 c for the first minute). 1-900-410-STAR

7) IAU colloquium 86, AKA the 8th International Colloquium on Ultraviolet and X-ray Spectroscopy of Astrophysical and Laboratory Plasmas, should be requested from: Dr. George A. Doschek, Naval Research Laboratory, Code 4170, Washington, DC 20375.

8) The following book is now back in print and available from the author: DATA ANALYSIS FOR SCIENTISTS AND ENGINEERS. Price \$45.00 plus \$2.90 for shipping. Order from: Dr. Stuart Meyer, 723 Dobson, Evanston, IL 60202. We had been searching all out of print dealers with no success when I (Brenda Corbin) finally decided to write the author at Northwestern University. He called to say he had decided to reprint it himself as there seemed to be a big demand for copies. It was formerly published by Wiley. The book comes highly recommended by our staff. In fact, that's why we need more copies as the one we have is so popular it travels from office to office.

9) USNO's "Floppy Almanac" -- A new compact source of accurate astronomical information is being developed at the US Naval Observatory. A computer diskette called the "FLOPPY ALMANAC" will soon be available for microcomputer users. This diskette will provide one year's information on accurate positions of the Sun, Moon, planets, and stars, for any date and time within one year; data on the apparent illumination and rotation of planets; time of rise, set, and transit of any astronomical body for any location on Earth; and the data needed by a navigator to obtain a position "fix" from astronomical observations. These are the principal data now contained in the three annual Observatory publications -- the Astronomical Almanac, the Nautical Almanac, and the Air Almanac.

It is anticipated that the diskettes for 1986 and 1987 will be available at the end of this summer, and the projected price of each diskette is \$20.00. The diskettes are designed for use in any IBM-PC-compatible machine with at least 256K bytes of memory running MS-DOS. An 8087 arithmetic coprocessor is strongly recommended. For further information contact Dr. George Kaplan, U.S.N.O., Washington, D. C. 20390 (202) 653-1516.

10) USNO's Tape Locator System -- The U.S. Naval Observatory's online magnetic tape locator system was described at the Astronomy Workshop in Boston. Several people asked if documentation is available -- the computer people say no, but they will be happy to describe the system if people contact them. However, the bad news is that this tape locator is very system specific -- it works only on an IBM mainframe running VM/CMS. For details please contact Dr. George Kaplan (address above). Dr. Kaplan says it is quite simple to use, and the same

type of thing can be done on most computers. The biggest problem is getting staff members to identify and label all their tapes!

11) Available to a library who would use them: (a) Referativnyi zhurnal: issledovanie kosmicheskogo prostranstva. Moskva: Proizvodstvenno-izd. kombinat VINITI, 1966, number 3 - 1978, number 4 (b) Johannesburg. Union Observatory. Photographic map of the sky south of -19 (1875). -- Pretoria: reproduced by the Govt. Print., 1914-1929. "charts in the area -22 and in the area 28 . Contact Mrs. Jennalyn Chapman, Lunar and Planetary Laboratory, The University of Arizona, Tucson AZ 85721

Thanks to Helen Z. Knudsen, Brenda Corbin, Marlene Cummins, and Ellen Bouton for contributions.

## PAM DIVISION

### TREASURER'S REPORT

JUNE 1/85 TO MAY 31/86

#### PAM Project Account Union List of Astronomical Serials

|                                  |                   |
|----------------------------------|-------------------|
| Balance as of May 31, 1985       | \$286.26          |
| Income from sale of books        | \$875.00          |
|                                  | <u>\$1,161.26</u> |
| Expenses                         |                   |
| Payment of remaining loan to SLA | \$1,000.00        |
| Postage                          | 48.35             |
|                                  | <u>\$1,048.35</u> |
| BALANCE AS OF MAY 31, 1986       | \$112.91          |

## AMERICAN ASTRONOMICAL SOCIETY

Announces The Relocation Of Its Executive Office To:

2000 Florida Avenue, N.W.  
Suite 300  
Washington, D.C. 20009  
(202) 328-2010

SURVEY OF LIBRARY SUPPORT OF UNIVERSITY PHYSICS AND ASTRONOMY  
DEPARTMENTS

Alice Primack  
Physics and Astronomy Reading Room  
University of Florida

During the summer and fall of 1985 I conducted a survey about libraries in U.S. colleges and universities which grant PhDs in Physics and/or Astronomy. The survey form was sent to approximately 170 physics and astronomy departments in public and private institutions.

Ninety-six responses to the survey (56%) were returned. In some cases the form was completed by the department chair or department library representative, and in some cases it was completed by a librarian.

The survey began with a question about how the institution houses physics and astronomy library materials. Responses showed that most institutions house physics and astronomy materials with other subjects in a general library or centralized science library (60 responses). In a few of these cases there is an additional small library or reading room for physics or astronomy. Housing physics and astronomy materials in branch libraries for physics or astronomy or some combination of these with one or two other subjects is less common but well represented (29 responses).

Budget allocations for physics and astronomy library materials in the current year were next on the form. These were to be broken down by books or journals and separated for subject: physics or astronomy. Useful responses on library budgets were limited because many institutions do not allocate funds by department. Twenty-three responses from schools with Physics Departments granting PhDs in physics gave a budget for physics library materials. Thirteen responses from schools with Astronomy Departments granting PhDs in astronomy gave a budget for astronomy materials. Thirteen more institutions, with joint departments of physics and astronomy and granting PhDs in physics and astronomy, gave the amount budgeted for physics and astronomy library materials. Table I shows budgets for physics library materials, Table II for astronomy materials, and Table III shows joint budgets in universities where physics and astronomy are combined into one department. In each case several other factors are shown in the tables for purposes of comparison. The budget information was obtained from my survey; the other information is from Graduate Programs in Physics, Astronomy and Related Fields by American Institute of Physics, 1984/85. The number of PhDs granted at a university is one measure of the amount of library support needed for graduate study. The number of faculty members at the university may indicate an amount of library support needed for high level research and/or for undergraduate teaching. These figures are given in the Tables, as well as the total numbers of faculty and graduate students in all fields at the university. I found the figures most useful to compare and contrast how my institution fits in with others granting similar numbers of PhDs and having similar numbers of faculty and students. I expect to present additional analysis of this budget data in the next year.

Questions about who selects library materials in physics and astronomy, and areas of particular strength in the collection came next. The library was asked whether software is purchased, and to specify any special collections such as preprints or rare books. As to who selects library materials, cooperation is the key word. On 40 of the responses, both "librarian bibliographer" and "Physics and Astronomy faculty members" were checked, and in several others something else was written in which meant essentially the same thing. Graduate students were also mentioned several times as providing suggestions. Twenty-eight responses indicate that faculty members select materials, and only 19 that the librarian bibliographer

does the selection alone.

Ten institutions reported that the library purchases software, and in addition four others made comments indicating that they plan to do so in the future or "if need be". The libraries which do purchase software are Boston University, Bryn Mawr College, Clarkson University, Clemson University, Dartmouth College, Florida Institute of Technology, State University of New York at Stony Brook, University of Chicago, University of Florida, and Wayne State University.

Preprint collections are maintained in physics and/or astronomy at twenty of the reporting libraries. Some of these collections include reprints. The University of Wisconsin and California Institute of Technology report collections of observatory publications, and Harvard College Observatory Library and University of California at Santa Cruz both indicate that their collections of observatory publications date back into the 1800s. The University of California at Santa Cruz has the original Lick Observatory collection including very old and valuable materials, and Clark University has materials dating from the 18th and 19th centuries. History of science is a speciality at the University of Minnesota, history of optics at the University of Rochester, and history of scientific instruments at Dartmouth College. Duke University lists a Microwave Catalog from the University of Ulm. The University of Maryland has photographic surveys and California Institute of Technology has a collection of 35-mm slides from worldwide sources. California Institute of Technology also lists an inhouse database of astronomical literature in their Astrophysics Library.

The last question on the survey form asked how contact is maintained between the library and the academic departments, for example through committee meetings, newsletters, and so forth. Responses indicate that there is much informal contact, and that most institutions employ more than one method of maintaining more formal contact. Contact through a librarian bibliographer assigned to these subjects, and contact through faculty library committee or faculty library representative, are each used in approximately 50 institutions. In addition, 33 institutions use a written newsletter or new book list put out by the library. Other contacts are through monthly selective dissemination to faculty members from the library, and routing of publishers ads to faculty. Only one library reported no contact.

TABLE I: RESULTS OF SURVEY OF BUDGETS FOR PHYSICS LIBRARY MATERIALS

| Institution                        | A   | B  | C    | D      | E        |
|------------------------------------|-----|----|------|--------|----------|
| Baylor (Waco, TX)                  | 4   | 6  | 524  | 924    | 40,000*  |
| Colorado State (Ft. Collins, CO)   | 19  | 21 | 1120 | 3,044  | 18,000*  |
| Indiana U. (Bloomington, IN)       | 35  | 43 | 1355 | 6,134  | 95,000   |
| Oklahoma St. U. (Stillwater, OK)   | 45  | 21 | 920  | 3,000  | 51,000   |
| Stanford (Palo Alto, CA)           | 30  | 20 | 1218 | 5,200  | 171,000* |
| State U. NY (Stony Brook, NY)      | 83  | 52 | 893  | 3,469  | 63,000   |
| Temple (Philadelphia, PA)          | 22  | 24 | 3200 | 8,000  | 57,000*  |
| U. of California (Berkeley, CA)    | 145 | 68 | 2000 | 8,743  | 112,000  |
| U. of California (Los Angeles, CA) | 73  | 42 | 3100 | 11,252 | 182,000  |
| U. of California (Santa Barbara)   | 55  | 32 | 1700 | 2,000  | 150,000* |
| U. of Chicago (Chicago, IL)        | 87  | 37 | 1043 | 5,938  | 88,000   |
| U. of Cincinnati (Cincinnati, OH)  | 18  | 25 | 1857 | 4,951  | 80,000*  |
| U. of Colorado (Boulder, CO)       | 42  | 40 | 1050 | 3,369  | 83,000   |
| U. of Florida (Gainesville, FL)    | 25  | 35 | 3205 | 4,714  | 37,000   |
| U. of Michigan (Ann Arbor, MI)     | 41  | 52 | 2763 | 9,172  | 100,000  |
| U. of Nevada (Reno, NV)            | 8   | 9  | 822  | 1,741  | 42,000   |
| U. of New Hampshire (Durham, NH)   | 23  | 19 | 500  | 1,000  | 55,000   |
| U. of S. California (Los Angeles)  | 16  | 27 | 1600 | 4,400  | 70,000   |
| U. of Texas (Austin, TX)           | 97  | 55 | 2200 | 11,000 | 69,000   |
| U. of Virginia (Charlottesville)   | 50  | 34 | 1654 | 5,412  | 99,000   |
| U. of Wisconsin (Madison)          | 84  | 44 | 2185 | 9,283  | 110,000  |
| W. Virginia U. (Morgantown, WV)    | 6   | 15 | 1346 | 4,757  | 60,000*  |
| Worcester Poly. Inst. (MA)         | 1   | 14 | 203  | 500    | 34,261*  |

A: No. of Ph.Ds in physics in last 5 years.

B: No. of physics faculty.

C: Total faculty in university.

D: Total grad. students in university.

\*: Budget stated as being for physics and astronomy materials, but Department and Ph.D. degree is in physics only.

TABLE II: RESULTS OF SURVEY OF BUDGETS FOR ASTRONOMY LIBRARY MATERIALS

| INSTITUTION                         | A  | B  | C     | D      | E      |
|-------------------------------------|----|----|-------|--------|--------|
| Boston U. (Boston, MA)              | 3  | 9  | 2,500 | 1,850  | 31,000 |
| Indiana U. (Bloomington, IN)        | 20 | 8  | 1,355 | 6,134  | 22,000 |
| New Mexico State (Las Cruces, NM)   | 6  | 6  | 922   | 1,638  | 13,000 |
| Rice U. (Houston, TX)               | 5  | 18 | 359   | 1,070  | 16,500 |
| State U. New York (Stony Brook, NY) | 9  | 9  | 893   | 3,469  | 43,000 |
| U. of California (Berkeley, CA)     | 21 | 16 | 2,000 | 8,743  | 21,000 |
| U. of Chicago (Chicago, IL)         | 12 | 18 | 1,043 | 5,938  | 40,000 |
| U. of Colorado (Boulder, CO)        | 25 | 27 | 1,050 | 3,369  | 20,000 |
| U. of Florida (Gainesville, FL)     | 11 | 22 | 3,205 | 4,714  | 10,500 |
| U. of Hawaii (Honolulu, HI)         | 7  | 11 | 1,500 | 5,590  | 13,000 |
| U. of Michigan (Ann Arbor, MI)      | 9  | 11 | 2,763 | 9,172  | 22,000 |
| U. of Texas (Austin, TX)            | 24 | 24 | 2,200 | 11,000 | 14,000 |
| U. of Wisconsin (Madison, WI)       | 12 | 9  | 2,185 | 9,238  | 7,000* |

A: No. of Ph.Ds in astronomy in last five years.

B: No. of astronomy faculty.

C: Total faculty in university.

D: Total grad. students in university.

E: Budget.

\*: Not part of campus library system (funded by Astronomy Department and trust fund).

TABLE III: RESULTS OF SURVEY OF BUDGETS FOR PHYSICS AND ASTRONOMY LIBRARY MATERIALS BUDGETED TOGETHER

| Institution                      | A  | B  | C     | D      | E       |
|----------------------------------|----|----|-------|--------|---------|
| Caltech (Pasadena, CA)           | 84 | 53 | 335   | 893    | 123,000 |
| Clemson U. (Clemson, SC)         | 12 | 26 | 1,000 | 2,400  | 75,000  |
| Michigan State U. (East Lansing) | 36 | 56 | 3,200 | 7,300  | 92,000  |
| Ohio U. (Athens, OH)             | 26 | 20 | 680   | 2,500  | 52,000  |
| Rutgers (Piscataway, NJ)         | 32 | 41 | 2,500 | 4,800  | 78,000  |
| U. of Iowa (Iowa City, IA)       | 17 | 22 | 1,652 | 5,999  | 100,000 |
| U. of Kentucky (Lexington, K)    | 9  | 24 | 1,220 | 3,700  | 68,000  |
| U. of Minnesota (Mpls, MN)       | 35 | 48 | 4,468 | 7,878  | 79,500  |
| U. of Pittsburgh (Pittsburgh)    | 54 | 44 | 2,142 | 10,124 | 85,000  |
| U. of Rochester (Rochester)      | 49 | 32 | 1,000 | 3,300  | 94,000* |
| U. of Tennessee (Knoxville)      | 22 | 31 | 1,344 | 4,710  | 99,500  |
| U. of Toledo                     | 1  | 16 | 851   | 3,166  | 61,000  |
| Wayne State (Detroit)            | 15 | 28 | 1,333 | 6,526  | 75,000  |

A: Number of Ph.Ds in physics and astronomy in last 5 years.

B: Number of physics and astronomy faculty.

C: Total faculty in university.

D: Total grad. students in university.

E: Budget.

\*: This institution also has an Institute of Optics which has granted 31 Ph.Ds (not counted in the number of physics and astronomy degrees listed) in the last 5 years; the budget figure includes optics materials.

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