



H·A·D NEWS

*The Newsletter of the Historical Astronomy Division
of the American Astronomical Society*

Number 26 February 1993

From the Incoming Chair

Steven Dick

After a great meeting in Phoenix, we are ready to begin again! First, let me thank the outgoing officers: John Lankford (chair), David DeVorkin (secretary/treasurer), Dorrit Hoffleit and Peggy Kidwell (HAD Committee) for a splendid job during their tenure. In the case of David, that means eight long years of service! We are sure he will keep active in other ways, as we hope you all will. And congratulations and welcome to the incoming officers: Woody Sullivan (vice-chair), LeRoy Doggett (secretary/treasurer), Ron Brashear and Sara S. Genuth (HAD Committee).

We now have a great deal before us. We will have one HAD session at the AAS Berkeley meeting on Thursday morning, June 10, and then move on to the Huntington Library meeting hosted by Ron Brashear the following week (see the accompanying article). Abstracts for both will be handled through the normal AAS channels.

We are planning a special thematic session at the Washington meeting in January '94 on "Astronomy and the State: U.S. and Soviet/Russian Perspectives." The AAS meeting is January 11–15, and pending approval the special HAD session would be on Tuesday, January 11. The following day the normal two HAD sessions would be held, one of which would be devoted to "Celestial Visibility" issues, being organized by Brad Schaefer. At present we are not organizing a HAD program for the summer '94 meeting, to avoid conflict with the ASP meeting being held at Flagstaff which will commemorate the centennial of the Lowell Obser-

From the Chair continued on p. 2

June '93 Meetings

Ron Brashear

The HAD will meet with the AAS in Berkeley for one session of contributed papers on Thursday morning, June 10. Then we will move to the Huntington Library, San Marino, California, for special sessions on 14–15 June. At the Huntington sessions, papers dealing with astronomy in the time of Copernicus and astronomy in the American West (of any time period) are particularly welcomed, but papers on all aspects of astronomy and archaeoastronomy are encouraged. Two invited lectures will be held during the Huntington meeting, one by Owen Gingerich on early modern astronomy and another by Gale Christianson on Edwin Hubble. A banquet will be held on Monday evening at the Huntington. A tour of the Mount Wilson Observatory is also planned for Sunday, June 13.

The Huntington is an appropriate site for a meeting on the history of astronomy. George Ellery Hale, founder of Mount Wilson Observatory, was a major force in the founding and development of the Library and served on its Board of Trustees until his death. Hale was replaced on the Board by another Mount Wilson astronomer, Edwin Powell Hubble. Two of the major science collections which are a part of the Huntington's holdings are the Hubble Papers and the Papers of the Carnegie Observatories. A special exhibit, "Constructing the Heavens, 450 Years of Astronomy," will be on display in the Library's West Exhibition Hall throughout the meeting. Of course, the Library's holdings will be available to all scholars who have

June Meetings continued on p. 2

— From the Chair, from p. 1 —

vatory and which may have a significant historical component.

Elsewhere in this Newsletter we list the newly appointed HAD Committees. In addition to the Obituary Committee now being taken over by Vice-chair Sullivan, three new committees were appointed. The Audit Committee has completed its audit of the outgoing secretary-treasurer's books. It finds everything to be in order, but recommends that HAD use a new bank that does not levy transaction charges. The International Relations Committee will focus for the present on the Former Soviet Union — how we can help with financial aid to our historically-minded colleagues there and encourage interaction with HAD. The Committee has already met twice, and is well into the planning for the "Astronomy and the State" meeting mentioned above. We are seeking funding to bring some of our FSU colleagues to Washington for that meeting. You will be hearing much more about this in future newsletters. Finally, we have formed the Archaeoastronomy Committee as a sign of our interest in extending astronomical aid and keeping communication channels open to those interested in this exciting field.

We welcome your new ideas. For example should we in some way share in the Newsletter our experiences with astronomical archives? Should we include translations of short articles by Soviet historians of astronomy? Should there be a HAD prize comparable to other AAS Divisions? How could we encourage increases in HAD membership? And — it is perhaps not too early to begin thinking about the AAS centennial towards the end of the decade! ✽

Call for Papers

Papers are solicited for HAD's June '93 meetings. On the morning of June 10, HAD will hold a session with the AAS at the University of California, Berkeley. Papers on any topic are welcome. June 14–15, HAD will meet at the Huntington Library, San Marino, as described on page 1 of this Newsletter. Topics for the Huntington session are "Astronomy in the Time of Copernicus" and "Astronomy in the American West" (of any period).

Abstracts must be received by the AAS office by April 9. In the "Special Instructions" area of the abstract form, specify that the paper is for HAD/Berkeley or HAD/Huntington, as appropriate.

— June Meetings, from p. 1 —

applied to the Reader Services Department to use them. Meeting participants are also invited to tour the Huntington's two Art Galleries and wander the extensive Botanical Gardens. To obtain local informaton, call Ron Brashear, 818-405-2209.

Abstracts — Abstracts will be handled as if this were a normal HAD meeting. In other words, if you plan to contribute a paper to the Berkeley or Huntington HAD meeting, use the abstract form that you will receive in the AAS Preliminary Announcement booklet. Send the form along with the fee to the AAS. The deadline for receipt of abstracts is April 9. Make sure you indicate under "Special Instructions" whether you plan to present the paper at the Berkeley or Huntington session. Contributed papers are normally set for twelve minutes with extra time for questions. A limited amount of space for poster papers is also available at the Huntington.

Mt. Wilson Observatory Tour — A tour of the Mt. Wilson Observatory is planned for the afternoon of Sunday, June 13. Included in the tour will be a behind-the-scenes look at the 100-inch and 60-inch reflecting telescopes and the 150-foot solar tower telescope. More details regarding the tour will appear in the final program. If you are interested in going on the tour, please indicate this on the registration form. Also, please indicate if you will need transportation to the Observatory or if you can drive yourself and others to Mt. Wilson. The Observatory is about a one hour drive from Pasadena and the road is fully paved all the way to the summit. The physically fit might also be interested in hiking to the summit on the old Mt. Wilson Toll Road, a winding, nine-mile hike up the mountains with a 4,500-foot gain in altitude.

Hotels — There are no hotels very near to the Huntington. The nearest lodging is the faculty club of Caltech—the Athenaeum—about one-half mile away. For those attending the meeting who have also registered as readers (scholars registered to use the collections), they may arrange to stay at the Athenaeum. These arrangements must be made through the Huntington's Reader Services Department. Due to the fact that the Caltech graduation will occur at nearly the same time of the HAD Meeting, however, we recommend that you plan to reserve lodging at the Athenaeum well in advance. Meals are served at the Athenaeum

June Meetings continued on p. 4

HAD Officers and Committees

Chair: Steven J. Dick
 Vice Chair: Woodruff T. Sullivan, III
 Secretary/Treasurer: LeRoy E. Doggett
 HAD Committee: Ron Brashear
 Sara S. Genuth

Audit Committee

Purpose: Audit books of outgoing Secretary/Treasurer.

Members: Brenda Corbin, LeRoy Doggett

Obituary Committee

Purpose: Annually solicit and coordinate obituaries of AAS members for publication in December issue of BAAS.

Members: Woody Sullivan (chair), David DeVorkin (appointed by HAD Chair), Don Osterbrock (appointed by AAS President), TBA (appointed by AAS Executive Officer)

International Relations Committee

Purpose: Increase links between HAD and historians of astronomy in other countries, especially (at present) the Former Soviet Union.

Members: Robert McCutcheon (chair), David DeVorkin, Ron Doel, LeRoy Doggett, Steve Dick

Archaeoastronomy Committee

Purpose: Develop a program to encourage and facilitate interaction of HAD members with organizations and individuals with a need for astronomical information to interpret archaeological, ethnographic or historical evidence.

Members: Steve McCluskey (chair), others to be determined.

Notes from the Business Meeting in Phoenix

John Lankford, the outgoing Chair, opened the meeting.

Robert McCutcheon proposed that HAD support grants to historians in the Commonwealth of Independent States, working (if possible) with the AAS Committee. He noted that a grant of \$100 would provide several months salary. Private contributions could take the form of cash, computers, journals, etc.

A motion was passed that "HAD will raise funds for the AAS program to aid Russian astronomers, targeting historians, archaeoastronomers, and others working in the history of astronomy, in consultation with Robert McCutcheon."

Steve Dick, chair of the Obituaries Committee, reported that the publication of obituaries in the BAAS is proceeding successfully and that the AAS is enthusiastic about the effort.

Ron Brashear reported on the plans for the Huntington meeting. Myles Standish and Craig Waff are on the local organizing committee.

Philip Keenan conveyed his regret that no one has proposed a session on Latin American astronomy.

Approval was voted for a two topical sessions at the January '94 meeting in Washington, DC. See Steve Dick's article on page 1 for details.

A number of people joined in a protest to the AAS that HAD and Education sessions ran concurrently at this meeting.

New officers were introduced. The meeting was adjourned by the incoming Chair, Steve Dick.

Notre Dame Workshop on the History of Astronomy

The History of Astronomy Interest Group of the History of Science Society is sponsoring a workshop at Notre Dame University, June 24–27. Organizers are Michael Crowe, Marc Rothenberg and John Lankford. The registration fee, which includes the cost of the meeting dinner, is \$50.

Participants will be housed in Knott Hall, an air-conditioned dormitory. The cost will be \$21 per person per night for a single room, \$16 per person per night for a shared twin.

Each session will consist of a round-table discussion, under the guidance of a discussion leader,

of a specified topic. The topics are as follows: "Astronomy in Social Context," "Work in Progress," "Teaching History of Astronomy," "History of Astronomy After World War II," and "History of Celestial Mechanics." The session on "Work in Progress" will be devoted to brief reports from graduate students and post-grads.

For further information or to obtain a registration form, please contact Marc Rothenberg, Joseph Henry Papers, MRC 429, Smithsonian Institution, Washington, DC 20560; telephone: 202-357-2787. ✻

Monday through Friday. A single room at the Atheneum is \$45 and a double room is \$56 per night.

There are many hotels and motels on Colorado Boulevard in Pasadena only 1–2 miles from the Huntington. Those planning to drive their own cars or obtain rented cars can pick and choose among the many lodgings in the area. Some of these are listed below.

For those who will be without ground transportation, we have reserved 25 rooms in the Pasadena Hilton (two miles away) at their conference rate (see below under the listing for hotels). The Local Organizing Committee will arrange for transportation to and from the Hilton and the Huntington. All arrangements must be made directly with the Hilton. The conference rates hold for the date range of June 12–15, but if you would like to extend your stay at the same rate, the people at the Pasadena Hilton have told us that they can accommodate you as long as you make arrangements directly with them (if you try to extend at the conference rate through their 800 number, you might not always be successful). The room rates are guaranteed only until May 20. Please make sure that you ask for the Historical Astronomy Division rates.

Motels in the area (from West to East; * indicates motel may offer special rates for Huntington readers, check with local number):

*Econo Lodge, 1203 E. Colorado Blvd., Pasadena 91105; (800) 368-4400; (818) 449-3170; Single: \$38; Double: \$42.

Westway Inn, 1599 E. Colorado Blvd., Pasadena 91106; (818) 304-9678; FAX (818) 449-3493; 1P: \$44-49; 2P/1 bed: \$48-53; 2P/2 bed: \$52-56.

*Saga Motor Hotel, 1633 E. Colorado Blvd., Pasadena 91106; (818) 795-0431; Single/Double: \$45; w/King, refrig.: \$49 (special Huntington rates).

Travelodge-Pasadena Central, 2131 E. Colorado Blvd., 91107; (818) 796-6001; 1P: \$35.95; 2P/1 bed: \$39; 2P/2 bed: \$45.

*Best Western Colorado Inn, 2156 E. Colorado Blvd., 91107; (800) 528-1234; (818) 793-9339; Single/Double: \$40; 2 beds: \$48; Suite w/ microw & refrig: \$60.

*Comfort Inn, 2462 E. Colorado Blvd., Pasadena 91107; (800) 228-5150; (818) 405-0811; FAX (818) 796-0966; 1P: \$45; 2P: \$50; 2P/2 beds:

\$52.

Vagabond Inn, 2863 E. Colorado Blvd., Pasadena 91107; (818) 449-3020; 1P: \$42-52; 2P/1 bed: \$47-57; 2P/2 bed: \$52-62.

Rodeway Inn, 3321 E. Colorado Blvd., Pasadena 91107; (818) 796-9291; FAX (818) 796-9780; 1P: \$43-48; 2P/1 bed: \$48-53; 2P/2 bed: \$52-57.

Best Western Pasadena Inn, 3570 E. Colorado Blvd., 91107; (800) 528-1234; (818) 796-9100; FAX (818) 405-9948; 1P: \$48-58; 2P: \$53-63.

Best Western Pasadena Royale, 3600 E. Colorado Blvd., 91107; (800) 528-1234; (818) 793-0950; FAX: (818) 568-2827; 1P: \$50-68; 2P: \$55-73.

Hotels in the area:

Pasadena Hilton, 150 S. Los Robles Ave., Pasadena 91101; (818) 577-1000; 1-2P: \$85; + \$15 for a 3rd person. Mention the HAD meeting to get these rates.

Holiday Inn, 303 E. Cordova St., Pasadena 91101; (818) 449-4000; FAX (818) 584-1390; 1P: \$88-115; 2P: \$100-125.

Doubletree Hotel, 191 N. Los Robles Ave., Pasadena 91101; (800) 528-0444; (818) 792-2727; FAX (818) 795-7669; 1P: \$90-145; 2P: \$100-155 (They claim AAA rates of \$75 weekends, \$95 weekdays).

The Ritz Carlton, Huntington Hotel, 1401 S. Oak Knoll Ave., 91106; (818) 568-3900; FAX (818) 568-3159; 1-2P: \$145-240.

You should make your own reservations for these commercial accommodations and should confirm the rates when you contact these hotels or motels. It couldn't hurt to ask if they will give you a special rate while you are doing research at the Huntington. A tax of 10.94% is applied to all accommodations in the city of Pasadena.

Huntington Registration — The registration fee for the Huntington meeting will be \$30.00. This does not include the banquet. The next Newsletter will have information regarding the banquet. Please use the enclosed registration form (or a photocopy) for the Huntington meeting. †

Bibliophiles' Corner

We are once again indebted to Ruth Freitag for a superb literature survey. We intend to make her bibliographies a feature of every issue. †

Soviet/Russian/CIS History of Astronomy

The HAD International Relations Committee contacted Prof. Alexander Gurshtein, of the Institute for the History of Science and Technology of the Russian Academy of Sciences, regarding HAD's desire to increase contacts with our Russian/CIS colleagues. Following is a part of his response, addressing especially the Soviet/Russian annual volume on the History of Astronomy, parts of which we are contemplating having translated.

"I am happy to communicate with you on so important problems. I believe that at the last meeting of the AAS Historical Division your decision was inspiring and very stimulating. I hope on our joint rich long-range vistas.

On the translations. Some dozens years ago, at 1955, the Soviet (now the Russian) annual on History of Astronomy was established thanks to an initiative of Dr. Piotr G. Kulikovsky of Moscow University who became the first editor-in-chief of the edition. It is not very often in the world practice that there is a professional edition specially for historians of astronomy. I know only the international Journal for History of Astronomy of Michael Hoskin and its supplement. Our annual is the second one. A month ago the 23d issue of the annual was published. Eleven issues were prepared under aegis of Piotr G. Kulikovsky. More five were published under the editorship of Leonid Ye. Maistrov of Soviet Academy of Sciences. After 1984 I have become the third editor-in-chief and seven issues were published under my auspices up to the moment. The next one is under production.

The contributions published cover a wide and diverse range of historico-scientific problems which are represented here by researches in the history of astronomy in the USSR and in pre-revolutionary Russia, by works of science historian from former Soviet Republics and articles analysing activities of outstanding scientists of the world astronomy; every issue covers a number of problem connected with the history of observatories and other astronomical bodies as well as astronomical instruments and devices. A variety of problems concerning the history of adjusting disciplines such as geophysics, cartography, archaeoastronomy as well as space investigations have found their elucidation in our collections of papers. A noticeable consideration is given to the works representing interest both for scientists and a wider reading audience such as teachers, students, post-graduates and amateur as-

tronomers. By tradition space is given to memoirs and works from scientific heritage of famous astronomers. There are many illustrations. The subjects of current issues to a much more great extent than in the past are oriented at that contemporary historical-scientific research which is generally recognized now under the name of social history of science. A great deal of the published material had been developed within the frames of the general academic research programme "Men, Science, Society: complex research". This vast programme of basic philosophical, sociological and historical-scientific research included (as one of its programs) the problem of "Astronomy and Society".

In every issue we have English-language "Contents" and "Editorial introduction" so it is easy to examine the main publications."

Ed. Note: To our knowledge, only the Library of Congress holds a complete set of these volumes. HAD members are invited to inform us of other locations. Later Newsletters will contain more information regarding possible translations, and further activities of the HAD IRC.

History of Astronomy Fund

The American Institute of Physics Center for History of Physics has received a gift of \$200,000 from the estate of the late Clinton B. Ford. This will form a new fund, the Clinton B. Ford Endowment. The income will be used for projects in the history of physics and allied sciences, with preference for projects in the history of astronomy.

Clinton B. Ford (1913-1992), a graduate of the University of Michigan, was a long-time officer of the American Association of Variable Star Observers, a fellow of the American Astronomical Society, and a member of the Optical Society of America.

The first project to be supported will be work to locate material relating to the history of astronomy in archives around the world, followed by entry of information on the materials in the AIP Center's computer-based International Catalog of Sources for the History of Physics and Allied Sciences. For more information, contact the Center for History of Physics, American Institute of Physics, 335 East 45th Street, New York, NY 10017 (212/661-9404, e-mail: sweart@aip.org).

Archaeoastronomy Session in Phoenix

The Phoenix meeting began with a five-hour session on "Issues in Archaeoastronomy," organized by Von Del Chamberlain and LeRoy Doggett. Although this was held on Sunday afternoon preceding the rest of the AAS meetings, we were pleased to have nearly a full house in a room holding about 200 people. All but one of the invited papers focused on an aspect of Southwest archaeoastronomy. The Southwest papers were

"The Archaeoastronomy of Casa Rinconada: A Review and Some New Results" by Carol Ambruster;

"Symbolic Cosmological Expression in the Architecture, Roads and Light Markings of the Ancient Chacoan Culture of New Mexico," by Anna Sofaer;

"Star Tracks: Star Patterns in American Southwest Rock Art" by Von Del Chamberlain;

"Sky Is My Father: The Navajo Relationship to the Heavens" by Trudy Griffin-Pierce.

These illustrated the variety of approaches now being used in studying the historic and prehistoric Southwest cultures.

The featured paper of Steve McCluskey, "Archaeoastronomy—Astronomies in Context," dealt with his use of archaeoastronomy in studies of Medieval European history. He demonstrated how the methodologies of archaeoastronomy can be effectively used in combination with those of history of science.

The panel discussion resulted from an essay in the September '92 issue of *Archaeoastronomy & Ethnoastronomy News*, in which the archaeologist Kieth Kintigh stated that the efforts of archaeoastronomers were largely irrelevant to archaeology. He challenged archaeoastronomers to become relevant. By chance, the historian of astronomy David Pingree had recently attacked archaeoastronomy in a paper in the December '92 issue of *Isis*.

Thus the panel, consisting of all the speakers on the program, plus the archaeoastronomer Dave Dearborn and the archaeologist Beth Jewell, considered the following questions: Is archaeoastronomy relevant to the related disciplines of archaeology, anthropology, history of science, etc.? If it is not, do we need to reform the methodology of archaeoastronomy? If it is relevant, how do we communicate our work to members of the other disciplines? There ensuing discussion include lively

audience participation.

There was a basic understanding that archaeologists and astronomers are asking different sorts cultural questions. The archaeologist does not care whether ancient peoples observed the heavens unless such observations, or observational activity, influenced the structure of society. Beth Jewell asserted that archaeoastronomers should learn to present their work in the language of archaeology, since archaeologists as a whole are happily and successfully working on their own questions in their own ways. It is therefore up to archaeoastronomers to demonstrate that they have something important to contribute. By contrast Von Del Chamberlain defended the "butterfly collector" approach of collecting data with the hope that it will someday be of interest. Several people discussed successful collaborations they have had with archaeologists and anthropologists. In the end there was (not surprisingly) a consensus that archaeoastronomy does have something important to say, and that an effort should be made to communicate more effectively with other disciplines.

The success of the program became apparent over the next few days during informal discussions. As a result HAD Chairman Steve Dick has established an Archaeoastronomy Committee to facilitate communication with other disciplines (see page 3). — LeRoy Doggett

Treasurer's Report for 1992

Starting Balance (1/22/92)		\$1727.45
Income		
Dues	\$ 367.00	
Meeting Income	1230.00	
Interest	59.20	
Total Income		\$1656.20
Assets:		\$3383.65
Expenses		
Postage	\$ 482.82	
Bank fees	129.02	
Meetings	869.00	
Total Expenses		\$1480.84
Balance (1/29/93)		\$1902.81

This is a summary of the report by the outgoing Secretary/Treasurer David DeVorkin. The report was audited by Brenda Corbin and LeRoy Doggett.

Registration Form for the Huntington Sessions

Huntington Library, 14-15 June 1993

Name and Affiliation (as it should appear on your badge):

Name: _____

Affiliation: _____

Address: _____

Telephone: _____

Please check all that apply:

_____ Registration fee of \$30 enclosed, payable to the HAD.

_____ I intend to attend the HAD banquet.

_____ I plan to stay at the Hilton Hotel.

_____ I will require transportation from the Hilton to the Huntington.

_____ I intend to go on the Mt. Wilson Observatory tour on June 13.

_____ I will require transportation to Mt. Wilson Observatory.

_____ I will be willing to provide transportation for _____ people to the Observatory.

Return this form, with payment, to: LeRoy Doggett
Nautical Almanac Office
U.S. Naval Observatory
Washington, DC 20392