

# NEWSLETTER

The American Astronomical Society • 2000 Florida Avenue, NW, Suite 400 • Washington, DC 20009-1231 • 202-328-2010 • aas@aas.org

## AAS ELECTIONS

### ELECTION BALLOT, AMENDMENTS TO THE CONSTITUTION AND CANDIDATE STATEMENTS

A large part of this issue is devoted to the AAS Election. The enclosed ballot lists not only candidates who stand for election to AAS Office, but includes an important vote on amendments to the AAS Constitution proposed by the Council.

Candidate statements begin on page 2.

**The discussion of the proposed amendments begins on page 4.**

- Please vote *both sides* of the ballot.
- Vote for no more candidates than the number indicated for each position.
- Sign the envelope and use it to return your ballot to the Office of the Secretary by **Monday, 31 January 2000**.
- *Safeguard your ballot; we cannot send a replacement should it be lost.*

## 2nd CENTURY FUND GROWS!

*Len Kuhi, Treasurer*

### New Challenge Grants To Match Contributions

Two long-time members of the AAS have again displayed their generosity in a challenging way. **Frank Edmondson** and **A. G. Davis Philip** have each provided \$5,000 to match donations to the *Shapley Lecture Fund*, on a one-to-one basis, up to a total of \$10,000. In addition, Frank Edmondson has given another \$5,000 to match donations to the *Centennial Lecture Series* (The Second Century Lectures) on a one-to-one basis. Thank you Frank and Dave!

These two challenge grants added to the Wentzel challenge (on a one-to-two basis up to \$50,000) for the *Education Prize* means that The Second Century Fund now has three ways in which to make your donations go further. Now is the time to give generously to the specific fund of your choice to help make the Society's entry into its second century a great success. Thank you for your contributions!

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## PRESIDENT'S COLUMN

*Bob Gehrz, President, gehrz@astro.spa.umn.edu*

*We did it!* Thank you, members of the American Astronomical Society, for your vigorous participation in our campaign to avert a funding disaster for the astronomy and space science communities. Our combination of letters, phone calls, FAXes and one-on-one meetings enabled us to dodge a dangerous budget bullet. In the final bill that resulted from the House/Senate Conference, NASA's appropriation was higher than either the Senate and



*"More powerful than a locomotive, ..." Gehrz rallied the AAS to stop the speeding budget train before it derailed the US astronomy program.*

House had initially proposed. NSF, overall, received more than a 7% increase in its budget. This funding bill has now been signed into law by President Clinton. Our members can be proud of their actions. A small amount of time each week spent informing their Congressional Delegations about astronomy and space science issues has paid off handsomely.

With the budget battle for FY 2000 completed, it is time to prepare for FY 2001. The budget caps imposed by the 1997 Balanced Budget Act are still in place. In fact, they impose tougher limits on domestic discretionary spending next year. The struggle to maintain the NSF and NASA budgets next year will be even more difficult than it was this year. I encourage all members of the AAS to continue to help by contacting their Senators and Representatives during the critical stages of the formulation of the FY 2001 budget. Let them know what you do, who you are, how many students you teach, and the way in which you use your Federal research funding. Ask them for their strong support for increasing Federal support for all science. Remind them of the importance of adequate Federal funding for basic research in science and technology for the future of our nation. You can argue this case based upon the important successes of the past: the inventions of the transistor and laser, the eradication of polio, the Apollo flights to the moon, among others. Even if you do get a direct grant, you probably make use of the national observatories, NASA's ADS, IPAC's NED extra galactic database, or one of the other useful tools or databases funded with federal dollars. If you use any of these resources, it is important that you thank the people who make such resources possible — the members of Congress.

## LETTERS TO THE EDITOR

Letters to the Editor on current issues of importance to astronomers are welcomed. Letters must be signed and should not exceed 250 words. For inclusion in the December 1999 issue, letters must be received by Jeff Linsky, Associate Editor, Letters, prior to 14 January 2000. You may contact Jeff Linsky via phone 303-492-7838, FAX 303-492-5235 or email at [jlinsky@jila.colorado.edu](mailto:jlinsky@jila.colorado.edu). The Associate Editor may edit letters, but will consult with authors before doing so. Letters will be published at the discretion of the Editors.

### How to Confront “Scientific Creationism”

Dear Editor:

It’s interesting to finally see the issue of “Scientific” creationism getting some real attention by the astronomical community. I had followed a number of arguments related to this issue over many years, even attending a talk by Robert Gentry (“Creation’s Tiny Mystery”) in the early 1990s while I was in graduate school. I recently got more heavily involved in the issue when a local astronomy club where I am currently serving as president was contacted by a creationist wanting to express their views.

The groups which are promoting creationist pseudoscience are well-funded, well-organized, and politically active. The scientific community must respond appropriately and swiftly. Public statements are not enough. Below are some of the basic steps the I believe the astronomical community can do to confront this issue.

- 1) Treat this issue as serious. When I raised some of these issues with other scientists, I’ve had responses ranging from snickers to claims that we “don’t want to offend anyone.” The education and outreach groups have dealt with creationists on a more regular basis but don’t really have the resources to confront the arguments directly.
- 2) Improve communication between those professional scientists who wish to deal with these issues.
- 3) Improve access to resources. Many of the creationist arguments are published in journals with very limited distributions. It’s very difficult to find actual papers on, say, Setterfield’s c-decay or Humphreys’ “White Hole” cosmology for the purpose of writing accurate rebuttals.
- 4) Provide resources for schools. How many professional astronomers know what simple observations rule out such claims as dramatic changes in the speed of light in the last several thousand years? These exercises should be readily available for science teachers to present in their classes. If they can be written on a level accessible at the junior high and high school level, all the better.

While there is probably no way we can sway the “hard-core” believer, we can at least make sure others don’t bestow credibility on creationist science in the name of being open-minded or for the sake of free speech.

William T. “Tom” Bridgman  
[wbridgman@radix.net](mailto:wbridgman@radix.net)

## CANDIDATE STATEMENTS

### FOR VICE-PRESIDENT (Vote for One)

**Luis F. Rodriguez**  
**Robert E. Williams**

Current Vice-Presidents  
 Virginia Trimble\*  
 Robert C. Kennicutt, Jr.  
 J. Craig Wheeler  
 \*term expires June 2000

Duties of a Vice-President:

- Serves on Council;
- Responsible for selecting invited speakers for AAS meetings;
- Responsible for overall scientific content of AAS meetings;
- Two senior Vice-Presidents serve on the Executive Committee.

### Luis F. Rodriguez

*Affiliation:* Instituto de Astronomia, UNAM.

*Position:* Professor.

*PhD:* Harvard University, 1978.

*Areas of scientific interest:* Star formation, galactic superluminals.

*Other experience relevant to AAS service:* NRAO Visiting Committee, 1995–1998; NRAO Users Committee, 1982–1985; Director, Instituto de Astronomia, UNAM, 1980–1986.

*Statement:* The biannual AAS meetings present the astronomical community of North America with the conditions to directly interact with other colleagues and with the opportunity to become acquainted with the more recent and relevant discoveries in different areas of research. The role of the Vice-President is to assure that the overall content of the meetings, as well as the important and heavily attended invited talks, do achieve those goals. The meetings are also attended by journalists, students, amateurs, and administrators and we have to make them aware of the vitality and excitement of astronomy. Science in general, and astronomy in particular, are periodically subject to public and governmental questioning. Therefore, we must use every forum we have to affirm the role of astronomy in the advancement of pure knowledge and the enlargement of human culture, but also in its role as catalyst of cutting edge technological developments that eventually have a social and economic impact. From planets to cosmology, from radio to

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The \$105.00 annual membership dues for the American Astronomical Society include \$3.00 that is applied toward a subscription to the *AAS Newsletter*. Periodical postage paid at Washington, DC.

POSTMASTER: Send address changes to AAS, 2000 Florida Avenue, NW, Suite 400, Washington, DC 20009-1231.

Items of general interest to be considered for publication in the *AAS Newsletter* should be sent to [lscholz@aas.org](mailto:lscholz@aas.org). Appropriate pictures are welcomed. The 2000 deadlines are: 21 January (for March); 14 April (for June); 16 June (for August); 25 August (for October); and 13 October (for December).

Items submitted for the *AAS Newsletter* are not automatically included in the AAS Electronic Announcements or vice versa. Submit electronic announcement items to [ela@aas.org](mailto:ela@aas.org).

**AAS Publications Coordinator:** Judy Johnson  
**Editor:** Robert W. Milkey  
**Associate Editor:** Lynn Scholz

gamma-rays, astronomy is experiencing a wonderful period of expansion; as Vice-President I will make every effort to guarantee the highest possible scientific content in the AAS meetings and that the invited speakers have the quality and ability required to present the best work that is being done by the members of our Society.

### Robert E. Williams

*Affiliation:* Space Telescope Science Institute.

*Position:* Institute Research Scholar.

*PhD:* University of Wisconsin, Madison, 1965.

*Areas of scientific interest:* Galaxy evolution, nebular spectroscopy, and novae.

*AAS positions & dates:* AAS Education Advisory Board, 1981–1983, AAS Committee on Astronomy and Public Policy, 1994–present.

*Other experience relevant to AAS service:* Director, CTIO, 1986–1993; Director, STScI, 1993–1998; NRC Space Studies Board, 1995–1998; Trustee, Associated Universities, Inc., 1997–present.

*Statement:* The professional face of the Society is wide. It serves as a forum, facilitating the exchange of ideas; it acts as an important agent of outreach; it participates in the formulation of science policy; it sponsors lectures and advertises the availability of open positions; it disburses grant funds; ... and much more. All of these functions are important, and to me the key element that gives them credibility is the high scientific level of the semi-annual meetings. In addition to participating in Council discussions of all policy matters, the Vice-Presidents oversee and organize the special sessions at AAS meetings, and this is a function that is especially important.

The Society has grown considerably in numbers in recent years and, more importantly, in stature. This reflects the high level of research that is being pursued at so many places, and our increased focus on outreach. It is also due to the dedication of the people associated with the work of the AAS, and I would look forward to being able to make a contribution to the Society from which so many of us derive so many benefits.

## COUNCILOR (Vote for no more than three)

**Charles Alcock**  
**Charles J. Lada**  
**Jonathan I. Lunine**  
**Dimitri M. Mihalas**  
**Nicholas B. Suntzeff**  
**Ellen G. Zweibel**

Current Councilors:

Geoffrey W. Marcy\*  
 Catherine A. Pilachowski\*  
 Anne L. Kinney\*  
 John P. Huchra  
 John C. Mather  
 Neil D. Tyson  
 Roger D. Blandford  
 Debra M. Elmegreen  
 Douglas N.C. Lin  
 \*terms expire June 2000

Duties of Councilors:

- Serve as part of the governing board of the AAS;
- Have the legal responsibility to help make all decisions to manage, direct, and control the affairs and property of the Society.

### Charles Alcock

*Affiliation:* Lawrence Livermore National Laboratory.

*Position:* Deputy Associate Director for Physics.

*PhD:* California Institute of Technology, 1978.

*Areas of scientific interest:* Dark matter, outer solar system, massive datasets.

*Other experience relevant to AAS service:* Theory, Computations and Data Explorations Panel Member; Astronomy and Astrophysics Survey Committee, NAS-NRC.

*Statement:* Astronomy and astrophysics are growing even more exciting as we enter the new century. The scientific opportunities confronting us are extraordinary. Much of this new science will be performed in new and different ways. Among these changes are: (1) the size of scientific teams is growing; (2) as large datasets become available, the “intellectual distance” between the instruments and many scientists will grow; (3) as computers become more powerful, and software packages for analysis become more complex, the working scientist will become less and less intimately aware of what he or she is doing with astronomical data.

These changes have started already. A glance at the author lists in the *ApJ* shows this clearly. Without careful attention, there will be consequences for the way we conduct our science that we do not intend. We need to be careful to maintain the strengths of small university groups, even as the average size of science teams grows. We must ensure that scientific data are widely disseminated, especially as new projects with limited participation generate very large datasets. It is my intention to explore the consequences of these developments and to search for community consensus on how best to proceed.

### Charles J. Lada

*Affiliation:* Smithsonian Astrophysical Observatory.

*Position:* Senior Astrophysicist.

*PhD:* Harvard University, 1975.

*Areas of scientific interest:* Star and planet formation, early stellar evolution, interstellar medium.

*AAS positions & dates:* Committee on the Status of Women in Astronomy, 1989–1993.

*Other experience relevant to AAS service:* NSF Astronomy Advisory Committee, Subcommittee on Millimeter and Sub-millimeter Astronomy, 1982–1983; Long Range Goals Committee, ASP, 1987–1988; Member of Panel on Planets, Star Formation and Interstellar Medium, NASA Task Group on Space Astronomy and Astrophysics, 1996; Member of OIR from the Ground, Panel of the Astronomy and Astrophysics Survey Committee, 1999.

*Statement:* As the AAS enters its second century of being, the Society and the US astronomical community which it represents face a new array of challenges. For example, our community is on the verge of realizing a tremendous capital investment in ground-based observing facilities. Yet, at the same time, funding to support researchers to take advantage of the opportunities provided by these new facilities is very limited. Moreover, such funding is likely to be under increasing stress as operations and instrumentation for the new ground-based facilities need to be developed and funded. If elected to the Council, I will work to promote and support all efforts of our Society to increase funding for astronomy through government and private sources so that creative and highly trained scientists — our greatest resource — will be able to flourish in the second century of the AAS’s existence as they did in the first.

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**COUNCILOR CANDIDATE STATEMENTS**

*Continued from page 3.*

**Jonathan I. Lunine**

*Affiliation:* University of Arizona.

*Position:* Professor of Planetary Science.

*PhD:* California Institute of Technology, 1985.

*Areas of scientific interest:* Planetary science, sub-stellar mass objects (brown dwarfs and super-Jupiters), planetary systems cosmogony.

*AAS position & dates:* DPS Prize Committee, 1992–1993.

*Other experience relevant to AAS service:* Numerous Advisory committee roles including NRC Space Studies Board, 1998–Present; Space Science Advisory Committee, 1990–1994; Chair, Solar System Exploration Subcommittee, 1990–1994.

*Statement:* The AAS stands poised in its second century to play a pivotal role in encouraging and disseminating exciting research to the nation and beyond. With astronomy in an extraordinary period of new discoveries — from extrasolar planetary systems to fundamental changes in our perception of large-scale structure — I will work to invigorate the Society's activities in encouraging research by young scientists, making discoveries and new concepts available to teachers and the public at large, and providing accurate and timely information to policy makers. My breadth of research interests and extensive experience in the advisory arena will be assets in these activities. But more important are my abiding commitment to astronomy and desire to see it remain a central feature of our national identity. I promise to work very hard as your Councilor.

**Dimitri M. Mihalas**

*Affiliation:* Applied Theoretical and Computational Physics Division, Los Alamos National Laboratory.

*Position:* Technical Staff member.

*PhD:* California Institute of Technology, 1964.

*Areas of scientific interest:* Radiation transport, radiation hydrodynamics, nonequilibrium radiation fields, theory of stellar atmospheres, theory of spectral line formation, stellar abundance analyses, solar physics.

*AAS positions & dates:* Associate Editor, *Astrophysical Journal*, 1970–1979; Member, George Ellery Hale Prize Nominating Committee, Solar Physics Division, 1981–1982; Member, AAS Nominating Committee, 1982–1984; Member, Henry Norris Russell Lectureship Committee, 1994–1996; Member, Publications Board, 1995–.

*Other experience relevant to AAS service:* Member, Kitt Peak National Observatory User's Committee, 1971–1972; Member, National Science Foundation Astronomy Advisory Panel, 1972–1975; Vice President, Commission 36, International Astronomical Union, 1973–1976; Helen B. Warner Prize of the American Astronomical Society, 1974; Member, Board of Directors, Astronomical Society of the Pacific, 1975–1977, President, Commission 36, International Astronomical Union, 1976–1979; NCAR Outstanding Publication Award, 1979; Member, Organizing Committee, Commission 36, International Astronomical Union, 1979–1988; Member, Advocacy Panel for "Physics of the Sun," prepared for the Committee on Solar and Space Physics of the Space Sciences Board, NAS, 1980–1984; Elected to U.S. National Academy of Sciences, 1981; Associate

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**RECOMMENDATION TO THE  
AAS MEMBERSHIP:**
**Amendment of the AAS Constitution**

*Robert W. Milkey, Executive Officer, for the AAS Council*

Following a review of the *AAS Constitution* by the Society's Council and discussions with its attorneys, the Council, at its regularly scheduled meeting on 31 May 1999, unanimously voted to recommend that the membership amend the *Constitution* by incorporating the revisions as presented in this *Newsletter*. Accordingly, the membership is asked to vote on this recommendation as a ballot question at the current Society election. Ballots are enclosed, as usual, in this December *Newsletter* and will be due in the Secretary's office by **31 January 2000**.

Pursuant to Article XV of the Constitution, since the Council has voted on and recommended the proposed amendments, notice of the proposed changes and a ballot is to be sent to every member of the Society who is entitled to vote at least 45 days in advance of the deadline for the return of the ballot. The amendments will be adopted if they receive three-fourths (3/4) of the votes cast by mail.

Included in the *Newsletter* (see opposite) is a copy of the Constitution with the proposed revisions incorporated in **bold print**, but with the old language shown in *italics* followed by the Articles of Amendment.

Four Articles have had noteworthy revisions. For each of these, the existing language has been included in italics after the recommended Article. A brief explanation of each of these changes follows:

**Articles IV and VI** are reworded to clarify the Society's intent that at least three quarters of the Council membership shall be elected by the membership of the Society. As drafted, the original language was somewhat ambiguous; no change was made to the intent of this provision.

**Article VI** has been revised to include a provision setting forth, consistent with District of Columbia (DC) law, the voting rights of the membership. This incorporates into the Constitution these voting rights as currently specified in the Bylaws. It will result in no change to the election procedure of the Society, or to the rights of the members, but assures that these rights may not be changed in the future without a vote of the membership. The right of the Council to fill vacancies that occur on the Council is also moved from the Bylaws into this Article.

In **Article VIII** we have added the words "and obligations" to the instructions for distribution of assets in the event that the Society is dissolved. This merely tracks the language of the applicable DC law.

**Article X** is expanded to clarify that the Society's obligation for indemnification of both present and former Directors and Officers is limited to that which can legally be provided by the Society without endangering its status as a tax-exempt organization under section 501(c)(3) of the federal tax law. In this sense, the recommended provision is more restrictive than the existing one, and it includes language that allows for the limitation of the Society's liability to evolve with changes in the tax code, IRS regulations, and the *DC Code*. It also permits the Council to undertake, by resolution, the indemnification of a Society employee, subject to the above restrictions.

In addition, several minor changes of nomenclature are included in this revision:

1. The term "Society" is used consistently to refer to the American Astronomical Society. In the old version, "Society" and "AAS" were used interchangeably and in one case, the term "corporation" was used.

2. The adoption date is changed to 2000.

3. The reference to the Internal Revenue Code is updated to the 1986 Code, the current version of this law.

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**CONSTITUTION OF THE AMERICAN ASTRONOMICAL SOCIETY**  
**PROPOSED REVISION - 2000**

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**CONSTITUTION** of the American Astronomical Society

This revised Constitution was adopted by the **Society** membership in **2000**. Under this document the Society is registered as an incorporated entity in the District of Columbia.

**ARTICLE I**

The name of this corporation is The American Astronomical Society (**hereafter “The Society”**).

**ARTICLE II**

The period of duration is perpetual.

**ARTICLE III**

The purpose of this Society is the advancement of astronomy and closely related branches of science.

**ARTICLE IV**

The Board of Directors of the Society shall be known as the Council of the Society and the Directors shall be known as Councilors. The Council shall fulfill all the functions of the Board of Directors. **All members of the Board of Directors shall be elected or appointed as provided herein and in the Bylaws.**

*[ARTICLE IV – old version*

*The Board of Directors of the Society shall be known as the Council of the Society and the Directors shall be known as Councilors. The Council shall fulfill all the functions of the Board of Directors. At least three quarters of the members of the Board of Directors (Council) shall be elected by the membership in the manner provided in the Bylaws. All the members of the Board of Directors shall be elected or appointed as provided in the Bylaws.]*

**ARTICLE V**

These Articles of Incorporation shall be known to the members of the Society as the Constitution. Except as provided in these Articles of Incorporation, the internal affairs of the Society shall be regulated and determined as provided in the Bylaws.

**ARTICLE VI**

The membership of the Society shall consist of those persons whose names were signed on or before September 15, 1899, to the statement of desire to form such an association plus such other persons subsequently elected as provided in the Bylaws of the Society. **The individual members shall have the right to elect not less than three-quarters of the members of Council and to vote for or against amendments to the Constitution. Notwithstanding the foregoing, any vacancies on the Council resulting from death, resignation, disqualification, removal or other cause shall be filled solely by the Council in the manner provided in the Bylaws.**

*[ARTICLE VI – old version*

*The membership of the Society shall consist of those persons whose names were signed on or before September 15, 1899, to the statement of desire to form such an association plus such other persons subsequently elected as provided in the Bylaws of the Society.]*

**ARTICLE VII**

At all times, and notwithstanding merger, consolidation, reorganization, termination, dissolution, or winding up of the Society (voluntary or involuntary or by operation of law), or any other provisions hereof:

1. The Society shall not possess or exercise any power or authority, whether expressly, by interpretation, or by operation of law, that would pose substantial risk of preventing it at any time from qualifying and continuing to qualify as an entity described in section 501 (c) (3) of the Internal Revenue Code of **1986** (hereinafter referred to as “the Code”), contributions to which are deductible for federal income tax purposes, nor shall the Society engage directly or indirectly in any activity that would pose a substantial risk of causing the loss of such qualification under section 501 (c) (3) of the Code.
2. At no time shall the Society engage in any activities that are unlawful under the laws of the United States, the State of Illinois, the District of Columbia, or any other jurisdiction where any of its activities are carried on.
3. No part of the assets or net earnings of the Society shall ever be used, nor shall the Society be organized or operated, for purposes that are not exclusively charitable or educational within the meaning of section 501 (c) (3) of the Code.
4. The **Society** shall never be operated for the primary purposes of carrying on a trade or business for profit.
5. The Society shall not carry on propaganda or otherwise attempt to influence legislation to an extent that would disqualify it for tax exemption under section 501 (c) (3) of the Code by reason of attempting to influence legislation. Nor shall the Society, directly or indirectly, participate in or intervene in (including the publishing or distributing of statements) any political campaign on behalf of or in opposition to any candidate for public office.
6. No solicitation of contribution to the Society shall be made, and no gift, bequest, or devise to the Society shall be accepted, upon any condition or limitation that would pose a substantial risk of causing the Society to lose its federal income tax exemption.
7. Pursuant to the prohibition contained in section 501(c) (3) of the Code, no part of the net earnings, current or accumulated, of the Society shall ever inure to the benefit of any private individual.

**ARTICLE VIII**

Upon termination, dissolution, or winding up of the Society in any manner or for any reason, voluntary or involuntary, its assets, if any, remaining after the payment or provision for payment of all liabilities **and obligations** of the Society shall be distributed to, and only to, one or more organizations then existent, dedicated to purposes similar to those of the Society so long as those organizations be exempt as described in section 501 (c) (3) of the Code or under such successor provision of the Code as may be in effect at the time of the Society’s dissolution.

**ARTICLE IX**

The private property of the Officers and Directors of the Society shall not be subject to payment of the Society's debts to any extent whatever.

**ARTICLE X**

**Unless otherwise prohibited by law**, the Society shall indemnify any Director (Councilor) or Officer, any former Director or Officer, **and any person who may have served at its request as a director or officer of another corporation, whether for profit or not for profit, and may, by resolution of the Council, indemnify any employee**, against **any and all expenses and liabilities** actually and necessarily incurred by him or her **or imposed on him or her** in connection with the defense of any action, suit, or proceeding (**whether actual or threatened, civil, criminal, administrative, or investigative, including appeals**) in which he or she is made a party by reason of being or having been such Director, officer, **or employee, subject to the limitation, however, that there shall be no indemnification in relation to matters as to which he or she shall be adjudged in such action, suit, or proceeding to be guilty of a criminal offense or liable to the Society for damages arising out of his or her own negligence or misconduct in the performance of a duty to the Society.**

**Amounts paid in indemnification of expenses and liabilities may include, but shall not be limited to, counsel fees and other fees; costs and disbursements; and judgments, fines, and penalties against, and amounts paid in settlement by such director, officer or employee. The Society may advance expenses to, or where appropriate may itself, at its expense, undertake the defense of, any director, officer, or employee; provided, however, that such director, officer or employee shall undertake to repay or to reimburse such expense if it should be ultimately determined that he or she is not entitled to indemnification under this Article.**

**The provisions of this Article shall be applicable to claims, actions, suits or proceedings made or commenced after the adoption hereof, whether arising from acts or omissions to act occurring before or after adoption hereof. The indemnification provided by this Article shall not be deemed exclusive of any other rights to which such director officer or employee may be entitled under any Bylaw, agreement, vote of the Council, vote of the members or otherwise and shall not restrict the power of the Society to make any indemnification permitted by law.**

**The Council may authorize the purchase of insurance on behalf of any Director, officer, employee, or other agent against any liability asserted against or incurred by him which arises out of such person's status as a director, officer, employee, or agent or out of acts taken in such capacity, whether or not the Society would have the power to indemnify the person against that liability under law.**

**In no case, however, shall the Society indemnify, reimburse, or insure any person for any taxes imposed on such individual under chapter 42 of the Code. Further, if at any time the Society is deemed to be a private foundation within the meaning of section 509 of the Code then, during such time, no payment shall be made under this Article if such payment would constitute an act of self-dealing or a taxable expenditure, as defined in section 4941(d) or 4945(d), respectively, of the Code.**

**If any part of this Article shall be found in any action, suit, or proceeding to be invalid or ineffective, the validity and the effectiveness of the remaining parts shall not be affected.**

**[ARTICLE X – old version**

*The Society shall indemnify any Director (Councilor) or Officer or former Director (Councilor) or Officer of the Society against expenses actually and necessarily incurred by him or her in connection with the defense of any action, suit or proceeding in which he or she is made a part by reason of being or having been such a Director (Councilor) or Officer, except in relation to matters as to which he or she shall be adjudged in such action, suit or proceeding to be liable for negligence or misconduct in the performance of a duty. The indemnification provided by this Article shall not be deemed exclusive of any other rights to which such Director (Councilor) or Officer may be entitled under any Bylaw, agreement, vote of the Board of Directors (Council), or otherwise.]*

**ARTICLE XI**

The address of the initial registered agent is: 2000 Florida Avenue, NW, Suite 300, Washington, DC 20009, and the name of the initial registered agent at such address is [Dr. Peter B. Boyce (who resides at 5700 Sherrier Place, NW, Washington, DC 20016)].

**ARTICLE XII**

The number of Directors (Councilors) constituting the initial Board of Directors (Councilors) is 17, and the names and addresses of the persons who are to serve as the Directors (Councilors) until their successors are duly elected and qualified are [those Officers and Councilors in office as of July 1987].

**ARTICLE XIII**

The names and addresses of the incorporators are:

Peter B. Boyce  
2000 Florida Avenue, NW, Suite 300, Washington, DC 20009

John A. Graham  
Carnegie Institution of Washington  
Department of Terrestrial Magnetism  
5241 Broad Branch Road, NW, Washington, DC 20015

Gart Westerhout  
U.S. Naval Observatory  
34th & Massachusetts Avenue, NW, Washington, DC 20390

**ARTICLE XIV**

All references contained in these Articles to the Internal Revenue Code of 1986, or to "the Code" shall be deemed to refer to the Internal Revenue Code of 1986, and the Regulations established pursuant thereto, as they now exist or as they may hereafter be amended.

**ARTICLE XV**

This Constitution may be amended only upon recommendation of the Board of Directors (Council) and only after notice of the proposed amendment and a ballot have been sent by mail to every **individual** member of the Society at least forty-five (45) days in advance of the deadline for return of the ballots. Such amendment, in order to be adopted must receive three-fourths (3/4) of the votes cast by mail.

**ARTICLES OF AMENDMENT  
TO THE  
ARTICLES OF INCORPORATION  
OF  
THE AMERICAN ASTRONOMICAL SOCIETY**

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**TO:** The Department of Consumer and Regulatory Affairs  
District of Columbia

Pursuant to the provisions of the District of Columbia Non-Profit Corporation Act, the undersigned adopts the following Articles of Amendment to the Articles of Incorporation:

**FIRST:** The name of the corporation is: The American Astronomical Society.

**SECOND:** The following amendments of the Articles of Incorporation were adopted by the Corporation in the manner prescribed by the District of Columbia Non-Profit Corporation Act:

ARTICLE IV is hereby amended by deleting in its entirety Article IV as it presently reads and inserting in lieu thereof a new Article IV which thereafter shall read in its entirety as follows:

*The Board of Directors of the Society shall be known as the Council of the Society and the Directors shall be known as Councilors. The Council shall fulfill all the functions of the Board of Directors. All members of the Board of Directors shall be elected or appointed as provided herein and in the Bylaws.*

ARTICLE VI is hereby amended by deleting in its entirety Article VI as it presently reads and inserting in lieu thereof a new Article VI which thereafter shall read in its entirety as follows:

*The membership of the Society shall consist of those persons whose names were signed on or before September 15, 1899, to the statement of desire to form such an association plus such other persons subsequently elected as provided in the Bylaws of the Society. The individual members shall have the right to elect not less than three-quarters of the members of the Council in the manner provided in the Bylaws and to vote for or against amendments to the Constitution. Notwithstanding the foregoing, any vacancies on the Council resulting from death, resignation, disqualification, removal or other cause shall be filled solely by the Council in the manner provided in the Bylaws.*

ARTICLE VII, Section 1 is hereby amended by deleting in its entirety Article VII, Section 1, as it presently reads and inserting in lieu thereof a new Article VII, Section 1, which thereafter shall read in its entirety as follows:

*The Society shall not possess or exercise any power or authority, whether expressly, by interpretation, or by operation of law, that would pose substantial risk of preventing it at any time from qualifying and continuing to qualify as an entity described in section 501(c)(3) of the Internal Revenue Code of 1986 (hereinafter referred to as the "Code"), contributions to which are deductible for federal income tax purposes, nor shall the Society engage directly or indirectly in any activity that would pose a substantial risk of causing the loss of such qualification under section 501(c)(3) of the Code.*

ARTICLE VII, Section 4 is hereby amended by deleting in its entirety Article VII, Section 4, as it presently reads and inserting in lieu thereof a new Article VII, Section 4, which thereafter shall read in its entirety as follows:

*The Society shall never be operated for the primary purpose of carrying on a trade or business for profit.*

ARTICLE VIII is hereby amended by deleting in its entirety Article VIII as it presently reads and inserting in lieu thereof a new Article VIII which thereafter shall read in its entirety as follows:

*Upon termination, dissolution, or winding up of the Society in any manner or for any reason, voluntary or involuntary, its assets, if any, remaining after the payment or provision for payment of all liabilities and obligations of the Society shall be distributed to, and only to, one or more organizations then existent, dedicated to purposes similar to those of the Society so long as those organizations be exempt as described in section 501(c)(3) of the Code or under such successor provision of the Code as may be in effect at the time of the Society's dissolution.*

ARTICLE X is hereby amended by deleting in its entirety Article X as it presently reads and inserting in lieu thereof a new Article X which thereafter shall read in its entirety as follows:

*Unless otherwise prohibited by law, the Society shall indemnify any Director (Councilor) or Officer, any former Director or Officer, and any person who may have served at its request as a director or officer of another corporation, whether for profit or not for profit, and may, by resolution of the Council, indemnify any employee, against any and all expenses and liabilities actually and necessarily incurred by him or her or imposed on him or her in connection with the defense of any action, suit, or proceeding (whether actual or threatened, civil, criminal, administrative, or investigative, including appeals) in which he or she is made a party by reason of having been such director, officer, or employee, subject to the limitation, however, that there shall be no indemnification in relation to matters as to which he or she shall be adjudged in such action, suit or proceeding to be guilty of a criminal offense or liable to the Society for damages arising out of his or her own negligence or misconduct in the performance of a duty to the Society.*

*Amounts paid in indemnification of expenses and liabilities may include, but shall not be limited to, counsel fees and other fees; costs and disbursements; and judgements, fines, and penalties against, and amounts paid in settlement by such director, officer, or employee. The Society may advance expenses to, and where appropriate may itself, at its expense, undertake the defense of, any director, officer or employee; provided, however, that such director, officer or employee shall undertake to repay or reimburse such expense if it should be ultimately determined that he or she is not entitled to indemnification under this Article.*

*The provisions of this Article shall be applicable to claims, actions, suits or proceedings made or commenced after the adoption hereof, whether arising from acts or omissions to act occurring before or after adoption hereof. The indemnification provided by this Article shall not be deemed exclusive of any other rights to which such director or officer may be entitled under any Bylaw, agreement, vote of the Council, vote of the members or otherwise and shall not restrict the power of the Society to make any indemnification permitted by law.*

*The Council may authorize the purchase of insurance on behalf of any director, officer, employee or other agent against any liability asserted against or incurred by him or her which arises out of such person's status as a director, officer, employee or agent or out of acts taken in such capacity, whether or not the Society would have the power to indemnify the person against that liability under law.*

*In no case, however, shall the Society indemnify, reimburse or insure any person for any taxes imposed on such individual under chapter 42 of the Code. Further, if at any time the Society is deemed to be a private foundation within the meaning of section 509 of the Code, then, during such time, no payment shall be made under this Article if such payment would constitute an act of self-dealing or a taxable expenditure, as defined in section 4941(d) or 4945(d), respectively, of the Code.*

*If any part of this Article shall be found in any action, suit or proceeding to be invalid or ineffective, the validity and the effectiveness of the remaining parts shall not be affected.*

ARTICLE XIV is hereby amended by deleting in its entirety Article XIV as it presently reads and inserting in lieu thereof a new Article XIV which thereafter shall read in its entirety as follows:

*All references contained in these Articles to the Internal Revenue Code of 1986, or to the "Code" shall be deemed to refer to the Internal Revenue Code of 1986, and the Regulations established pursuant thereto, as they now exist or as they may hereafter be amended.*

ARTICLE XV is hereby amended by deleting in its entirety Article XV as it presently reads and inserting in lieu thereof a new Article XV which thereafter shall read in its entirety as follows:

*This Constitution may be amended only upon recommendation of the Board of Directors (Council) and only after notice of the proposed amendment and a ballot have been sent by mail to every individual member of the Society at least forty-five (45) days in advance of the deadline for return of the ballots. Such amendments, in order to be adopted must receive three-fourths (3/4) of the votes cast by mail.*

**THIRD:** These amendments were adopted in a vote conducted by mail pursuant to section 29-516 of the District of Columbia Nonprofit Corporation Act and in accordance with the Corporation's Articles of Incorporation and the Amendments received the affirmative vote of at least three-fourths of the votes submitted by mail ballot by the members entitled to vote.

**To be signed by President and attested by Secretary when approved.**



**COUNCILOR CANDIDATE STATEMENTS***Continued from page 4***Dimitri Mihalas** -continued

Editor, *Journal of Computational Physics*, 1981–1987; Editorial Board, *Solar Physics*, 1981–1980; Associate Editor, *Journal of Quantitative Spectroscopy and Radiative Transfer*, 1984–1994; Member, Theoretical and Computational Physics Advisory Committee, Los Alamos National Laboratory, 1985–1986, NCAR Outstanding Publication Award, 1985; George C. McVittie Professor of Astronomy, Department of Astronomy, University of Illinois, 9/85–9/98; Member, Theoretical Division Advisory Committee, Los Alamos National Laboratory, 1987–1989; Member, US Scientific and Technical Working Group for LEST, 1988–1993; Member, Scientific Organizing Committee for “The MK Process at 50 Years,” Tucson, 1993; Member, Crafoord Prize in Astronomy Nominating Committee, Royal Swedish Academy of Sciences, 1996–1997; Member, Applied Theoretical and Computational Physics Advisory Committee, Los Alamos National Laboratory, 1997–1998.

*Statement:* The AAS has a critical role of providing a focus for American astronomy and astrophysics, both through its premier journals and its meetings. The past four decades have seen an explosion of astronomical activity in the US, thanks both to fabulous advances in instrumentation, the application of advanced theoretical insights, and the incredible growth in computational capacity. On the observational side, observations from facilities ranging from the Hubble Telescope, to smaller, but astutely designed observatories such as Hipparcos, have revolutionized our concepts of the nature and history of the Universe, and produced astronomical data of unprecedented precision. On the theoretical side, we now have a reliable theory of stellar structure and aging, an accurate predictive theory of spectra from stellar atmospheres, a good understanding of internal dynamics and interactions of galaxies, and an appreciation of the relevance of every branch of modern physics, particularly relativity and fundamental particle theory. These are exciting times in astronomy.

Although I am interested in current developments, my personal research is centered on stars. My professional work has been devoted on gaining an understanding of the outer layers of stars. I have also been very fortunate in having productive interactions with solar astronomers. If elected to the AAS Council, I would try to represent these areas of astrophysics, and would try to sustain the tradition of breadth in the scope of scientific expertise of Council members.

**Nicholas B. Suntzeff**

*Affiliation:* Cerro Tololo Inter-American Observatory, NOAO.

*Position:* Astronomer.

*PhD:* UC Santa Cruz, Lick Observatory, 1980.

*Areas of scientific interests:* Stellar astronomy, Magellanic clouds, supernovae, cosmology, astronomical site testing.

*Other experience relevant to AAS service:* IAU Commissions 29, 30, 37, 50; CTIO User’s Committee 1984–1986; HST Panels 1994, 1996, 1997; Gemini Science Operations Working Group, 1997; CTIO TAC, 1990–1998; NOAO TAC, 1999.

*Statement:* In recent public forums, I have sensed a disconnection between the astronomical policy leadership and the general community. We are assured that astronomical science is receiving a level of funding which is the highest it has ever been,

yet I think most astronomers would agree that finding money for research, instrumentation, education — or especially finding a job with some level of security and dignity — is more difficult than ever. If public interest in astronomy has soared in the last decade, why does the funding of astronomy seem mired in traditional budgetary relationships with other physical sciences?

The AAS needs to be more aggressive in the promotion of our science both in Washington, DC and at the grassroots level. It has done an excellent job in publicizing exciting results at the AAS meetings, and has also formed the Committee on Astronomy and Public Policy to advocate scientific research and education. We need to do more. We should sponsor an energetic Congressional Internship program to connect young astronomers with Congress and the funding agencies in Washington. At the grassroots level, we should support a strong Education Office with the goal of promoting astronomy as a core physical science in high schools across the US.

The AAS needs to be more aggressive in canvassing its membership to find out what the problems are in our community. Astronomy faces real social issues such as the progress of historically excluded groups and fair labor practices applied to graduate, postdoctoral, and soft-money positions. We need to ensure that when large national and international projects are funded, the funding for the excellent research done at smaller scales is not sacrificed.

If elected, I will maintain a Web site with my own view on what the AAS is doing, and what the issues are that face us. With comments gathered through this Web site, I can better represent the community before the Council.

**Ellen G. Zweibel**

*Affiliation:* JILA, University of Colorado.

*Position:* Professor of Astrophysics and Fellow of JILA.

*PhD:* Astrophysical Sciences, Princeton University, 1977.

*Area of scientific interest:* Theoretical astrophysics, plasma astrophysics, the interstellar medium, solar physics.

*Other experience relevant to AAS service:* Participated in 1989 and 1999 NRC Decadal surveys on Astronomy and Astrophysics, member of NRC Committee on Astronomy and Astrophysics, 1998–Present.

*Statement:* It has become a cliché to say that astronomy and astrophysics are flourishing in the US, but it is true. We are making new discoveries and illuminating old mysteries at a rapid rate. The excitement of astronomy is well communicated by the media, and astronomy education and public outreach are a model for the sciences. Astronomy is succeeding in the post-Cold War environment through adaptation: greater roles for international and public/private collaborations, and more attention to societal issues such as scientific literacy. But we cannot take success for granted; we need continuous advocacy. And we need to attend to the human side of astronomy and do our best to ensure that astronomers are optimally trained, that working conditions are as equitable and rewarding as possible, and that a career in astronomy is accessible to a broad range of demographic groups.

As a Councilor, I will do what I can to help the AAS serve its membership effectively, by building internal community and by advocating astronomy to government and to the public. I will listen to the grassroots as well as the leadership of the AAS, and I will act on the basis of nearly three decades of experience in astrophysics as a student, researcher, and professor.

*Continued on page 10.*

**CANDIDATE STATEMENTS***Continued from page 9.***EDUCATION OFFICER****R. Bruce Partridge**

Current Education Officer  
R. Bruce Partridge

Duties of the Education Officer:

- Responsible, under the direction of the Council, for the coordination and oversight of all educational activities of the Society;
- Serves on the Council;
- Chairs the Astronomy Education Board which oversees the educational activities of the Society by providing advice to the Council and the Education Coordinator.

**R. Bruce Partridge**

*Affiliation:* Haverford College.

*Position:* Bettye and Howard Marshall Professor of Natural Sciences.

*D. Phil:* Oxford University, 1965.

*Areas of scientific interest:* Cosmic microwave background radiation and its angular distribution and spectrum; galaxy formation, physical properties of newly-formed and starburst galaxies; cosmology; radio source counts; astronomy education.

*AAS positions & dates:* Councilor, 1989–1992; Committee member, High Energy Astrophysics Division, 1969–1971.

*Other experience relevant to AAS service:* President, IAU, Division of Cosmology and Extragalactic Astronomy, 1994–1997; Member, NSF Advisory Committee for Mathematical and Physical Sciences, 1993–1996; Provost, Haverford College, 1990–1995; Member, Astronomy and Astrophysics Survey Committee, 1998–2000.

*Statement:* With the support of the Officers and Council of the AAS, and the very great assistance of the Education Office and the Astronomy Education Board, I have tried to increase awareness of the important role astronomy education plays in the professional lives of many AAS members and in both formal and informal science education in North America. In the past few years, sessions on education and public outreach have become a regular part of all AAS meetings (many will recall Eric Mazur's talk at the Austin meeting). There is now a Web page on resources for astronomy education, thanks in large part to the efforts of Doug Duncan and Gina Brissenden in the Education Office. Council has accepted a five year plan for Society efforts in education and public outreach, with an initial focus on a reexamination of the goals of and teaching practices in "Astronomy 101," a set of courses reaching roughly 200,000 undergraduates each year, and on providing more opportunities for AAS members to expand and sharpen their educational capabilities.

If reelected, my main goal will be to see the Society's five year plan for education well on the way to fulfillment. Among the foci of that plan are greater cooperation on educational activities (with the AIP, ASP, etc.) and undergraduate education for both majors and non-majors. We hope in the year 2000 to conduct a national dialogue on the goals and instructional techniques of introductory astronomy courses.

**USNC-IAU, Category I  
(Vote for One)**

**Ramesh Narayan**  
**Yoji Kondo**

Current Representatives:

Karen J. Meech\*  
Richard Mushotzky  
James W. Liebert  
\*term expires 31 December 2000

Duties of AAS Representative to the US National Committee-International Astronomical Union (USNC-IAU):

- Responsible for making decisions regarding US participation in the IAU;
- Recommends astronomers for IAU membership;
- Reviews IAU Travel Grant Applications;
- Represents the US at IAU General Assemblies.

**Ramesh Narayan**

*Affiliation:* Department of Astronomy, Harvard University, and Harvard-Smithsonian Center for Astrophysics.

*Position:* Professor and Chair.

*PhD:* Bangalore University, India, 1979.

*Areas of scientific interest:* Accretion disks, active galactic nuclei, black holes, gamma-ray bursts, gravitational lensing, image processing, radio pulsars, scintillation and seeing, x-ray binaries.

*Other experience relevant to AAS service:* Advisory Board and Steering Committee, Institute for Theoretical Physics, UC Santa Barbara, 1994–1998, Chair, 1996–1997; Committee on Gravitational Physics, NAS/NRC, 1997–1999; Member: AAS, AAAS, IAU.

*Statement:* Astronomy the world over has become increasingly collaborative and international, making it very important for the United States to participate effectively in the IAU. If elected to the USNC-IAU, I hope to bring a unique perspective. My scientific career has given me an intimate knowledge of both universities and non-teaching research institutions in this country, which I believe would make me an effective spokesman for all US astronomers. As a theoretical astrophysicist and gravitational physicist, and one who has collaborated extensively with observational astronomers in the entire range of the electromagnetic spectrum from radio to gamma-rays, I believe I have an especially broad view of modern astrophysics. And, having benefitted from an IAU Travel Grant myself early in my career, I am well aware of the importance of encouraging and supporting young scientists. I would welcome the opportunity to serve on the USNC-IAU, to enhance US participation in the IAU and to serve the interests of US astronomers.

**Yoji Kondo**

*Affiliation:* NASA Goddard Space Flight Center.

*Position:* Astrophysicist.

*PhD:* University of Pennsylvania, 1965.

*Areas of scientific interest:* Evolutionary processes in interacting binary stars, stellar chromospheres, the local interstellar medium, active galactic nuclei, proto-solar systems, astronomical observations from space.

*AAS positions & dates:* USNC-IAU, 1989–1991.

*Other experience relevant to AAS service: Academic positions:* Assistant Professor, University of Pennsylvania, 1965; Associate professor (adjunct), University of Oklahoma, 1971–1972; Adjunct Professor: University of Oklahoma, 1972–1977; University of Houston, 1974–1977; University of

Pennsylvania, 1978–1988, George Mason University, 1988–present; Catholic University of America, 1996–present; Visiting Professor: Institute of Space & Astronautical Science, Tokyo, 1983; University of La Plata, Argentina, 1995. *Positions with international organizations*: President, IAU Commission 44 (Astronomy from Space), 1985–1988; President, IAU Commission 42 (Close Binary Stars), 1991–1994; President, IAU Division V (Variable Stars), 1994–1997; IAU Liaison Officer, COSPAR, 1983–1994; International Astronautical Federation, 1994–present. *Government positions*: Head, astrophysics laboratory, NASA Johnson Space Center, 1968–1977; NASA Project Scientist, International Ultraviolet Explorer satellite observatory, 1982–1997; NASA Project Scientist, Extreme Ultraviolet Explorer, 1988–present.

*Statement*: The American Astronomical Society and the International Astronomical Union are the two primary organizations serving astronomers in the USA. Astronomical research — be it observation from the ground and from space or theoretical analysis using high capacity computers — has become ever more global in its various aspects. Good communication and cooperation between those two organizations (and of course with other affiliated organizations) is vital in promoting vigorous scientific research, sound science education and effectively reaching the public that supports our activities. If elected, I would be pleased to serve on the USNC-IAU Committee and contribute what I can to those worthy efforts.

## NOMINATING COMMITTEE (Vote for no more than two)

### Candidates:

**Daniel E. Harris**  
**Charles Liu**  
**Blair D. Savage**  
**Ethan J. Schreier**  
**Donna Weistrop**

### Duties of Nominating Committee:

- Nominate candidates for the positions of Officers and Councilors of the AAS for election by membership. For positions of Treasurer, Secretary, and Education Officer, the decision is made in consultation with the Executive Committee of the AAS.

### Current Members

Ethan Vishniac, Chair\*  
 Mark Reid\*  
 Roberta Humphreys  
 Frank Shu  
 John Leibacher

\*terms expiring in Feb. 2000

### Daniel E. Harris

*Affiliation*: Smithsonian Astrophysical Observatory.

*Position*: Astronomer.

*PhD*: California Institute of Technology, 1961.

*Areas of scientific interest*: Non-thermal processes in extragalactic sources; interactions between radio galaxies and ambient medium; clusters of galaxies.

*Other experience relevant to AAS service*: NASA Peer Review panels: one for ADP and several for ROSAT; SOC for international workshops on Cygnus A; M87; and Extended emission in clusters.

*Statement*: The AAS is a multi-mission trade organization whose basic reason for existence is to provide services to its members. The organizational structure, methods of undertakings, and immediate

goals evolve over the years so that like any healthy organization, the AAS relies on its members for direction and implementation of projects. The finite number of officers will often fall short of true representation of our entire, diverse community. For that reason, if elected, I will seek to identify candidates who have a strong commitment to increase member participation in all facets of AAS activities and will be willing to explore innovative methods of moving towards a more direct democratic process (as opposed to the standard ‘representative’ model).

### Charles Liu

*Affiliation*: Columbia University and the American Museum of Natural History.

*Position*: Postdoctoral Research Scientist and Astronomer.

*PhD*: University of Arizona, 1996.

*Areas of scientific interest*: Galaxy evolution, starbursts, mergers, QSO absorption lines.

*Statement*: When I was nominated during the AAS Business Meeting in Chicago to be a candidate, I was honored and flattered. But mostly, I was shocked! After all, I’m only in my third year out of graduate school. On the other hand, the person who nominated me knew this; so I must conclude that my value to the AAS lies not in my paucity of experience and accumulated wisdom.

What I *can* contribute is my energy, my enthusiasm, and a perspective that may differ somewhat from the norm. I feel very strongly about science education — I work very hard to convey its paramount importance, and the vital part that astronomers can play to conduct it and improve it. I also feel strongly that most of us in the AAS generally do not understand the Society’s importance in our professional lives. Why else would less than a third of the membership participate in elections? So many of us feel disconnected from the Society, believing that the AAS is largely irrelevant to our present needs and future success. Others among us would like to get involved, but feel that we have neither the stature nor the resources to make a difference. I want to help correct both these misconceptions.

The members of the Nominating Committee help determine who future AAS officers will be. If the AAS membership feels that someone with my views and ideas can contribute to that effort, I will gladly serve to the very best of my ability.

### Blair D. Savage

*Affiliation*: University of Wisconsin, Madison.

*Position*: Professor of Astronomy.

*PhD*: Princeton University, 1967.

*Areas of scientific interest*: Physical processes in interstellar and intergalactic gas, UV space astronomy, elemental abundances, galactic halo gas and QSO absorption lines.

*AAS positions & dates*: Councilor, 1994–1997.

*Other experience relevant to AAS service*: NRC Committee on Space Astronomy, 1973–1976; Chair, University of Wisconsin Department of Astronomy, 1982–1985; Space Telescope Advisory Committee, 1984–1988; NRC Space Science Board, 1985–1988; Chair, NRC Committee for Space Astronomy and Astrophysics, 1985–1988; AURA Board Member, 1989–1992; WIYN Board of Directors, 1988–1997; President, WIYN Inc., 1990–1996; AURA Observatory Advisory Committee, 1989–1992; Space Telescope Science Advisory Committee, 1990–1992; NRC Astronomy and Astrophysics Survey Committee Member, 1989–1991; Member, NASA’s Origins

## CALENDAR

Listed below are meetings that have come to our attention; new listings or listings with updated information are flagged with an asterisk. Due to space limitations, we publish notice of meetings 1) occurring in North and Central America; 2) meetings of the IAU Commissions and Colloquia; and 3) other meetings as requested by AAS Members. Meetings that fall within 30 days of publication generally are not listed.

A complete list of international astronomy meetings is maintained by Liz Bryson, Librarian C-F-H Telescope ([library@cfht.hawaii.edu](mailto:library@cfht.hawaii.edu)) in collaboration with the Canadian Astronomy Data Centre, Victoria, BC. The list may be accessed at <http://cadwww.hia.nrc.ca/meetings/>

### AAS and AAS Division Meetings

#### 195th AAS Meeting

11–15 January 2000 — Atlanta, GA  
Contact: Hal McAlister ([hal@chara.gsu.edu](mailto:hal@chara.gsu.edu))

#### Historical Astronomy Division (with AAS)

11–15 January 2000 — Atlanta, GA  
Contact: David DeVorkin ([david.devorkin@nasm.si.edu](mailto:david.devorkin@nasm.si.edu))

#### High Energy Astrophysics Division (with AAS)

13 January 2000 — Atlanta, GA  
Contact: Alice Harding ([harding@twinkie.gsfc.nasa.gov](mailto:harding@twinkie.gsfc.nasa.gov))

#### Division on Dynamical Astronomy

9–12 April 2000 — Yosemite National Park, CA  
Contact: Roy Laubscher ([laubcorp@impulse.net](mailto:laubcorp@impulse.net))

#### 196th AAS Meeting

4–8 June 2000 — Rochester, NY  
Contact: Judy Pipher ([jlipher@sheram.pas.rochester.edu](mailto:jlipher@sheram.pas.rochester.edu))

#### Solar Physics Division

18–22 June 2000 — Stateline (Lake Tahoe area), NV  
Contact: Janet Biggs ([biggs@sag.lmsal.com](mailto:biggs@sag.lmsal.com))

#### Division for Planetary Sciences

23–27 October 2000 — Pasadena, CA  
Contact: Rosaly Lopes-Gautier ([rlopes@issac.jpl.nasa.gov](mailto:rlopes@issac.jpl.nasa.gov))

#### High Energy Astrophysics Division

6–10 November 2000 — Honolulu, HI  
Contact: John Vallerger ([head2K@netcom.com](mailto:head2K@netcom.com))  
<http://www.eurekasci.com>

#### 197th AAS Meeting (w. AAPT)

7–11 January 2001 — San Diego, CA  
Contact: Diana Alexander ([diana@as.org](mailto:diana@as.org))

### Other Events

#### \*Lake Louise Winter Inst. 2000: From Particles to the Universe

20–26 January 2000 — Lake Louise, Canada  
Contact: Lee Grimard ([grimard@phys.ualberta.ca](mailto:grimard@phys.ualberta.ca))  
<http://www.phys.ualberta.ca/~llwi/>

#### \*Astronomy, Physics, and Chemistry of H3+

9–10 February 2000 — London, UK  
Contact: Takeshi Oka ([t-oka@uchicago.edu](mailto:t-oka@uchicago.edu))  
<http://h3plus.uchicago.edu>

#### Sources and Detection of Dark Matter in the Universe (DM20)

23–25 February 2000 — Marina del Rey, CA  
Contact: DM20 ([dm20@physics.ucla.edu](mailto:dm20@physics.ucla.edu))  
<http://www.physics.ucla.edu/dm20>

#### Mapping the Hidden Universe: The Universe Behind the Milky Way—The Universe in HI

23–29 February 2000 — Guanajuato, Mexico  
Contact: Renee Kraan-Korteweg ([zoahi@astro.ugto.mx](mailto:zoahi@astro.ugto.mx))  
<http://www.astro.ugto.mx/~kraan/zoahi>

#### Space and Robotics 2000

28 February–2 March 2000 — Albuquerque, NM  
Contact: Darel Preble ([preble@netdepot.com](mailto:preble@netdepot.com))  
<http://www.spaceandrobotics.org>

#### 31st Lunar and Planetary Conference

13–17 March 2000 — Houston, TX  
Contact: LeBecca Simmons ([simmons@jsc.nasa.gov](mailto:simmons@jsc.nasa.gov))

#### STAR2000, Dynamics of Star Clusters and the Milky Way

20–24 March 2000 — Heidelberg, Germany  
Contact: Rainer Spurzem ([star2000@ari.uni-heidelberg.de](mailto:star2000@ari.uni-heidelberg.de))  
<http://www.ari.uni-heidelberg.de/star2000>

#### Rossi 2000 : Astrophysics with the Rossi X-ray Timing

Explorer: A Survey at the Close of the Millennium  
22–24 March 2000 — Greenbelt, MD  
Contact: Tod Strohmayer ([stroh@clarence.gsfc.nasa.gov](mailto:stroh@clarence.gsfc.nasa.gov))

#### \*Chapman Conf. on Space Weather: Progress and Challenges in Research and Applications

20–24 March 2000 — Clearwater, FL  
<http://www.agu.org/meetings>

#### Washington Area Astronomers Meeting

23 March 2000 — College Park, MD  
Contact: George Kaplan ([gkaplan@usno.navy.mil](mailto:gkaplan@usno.navy.mil))  
<http://aa.usno.navy.mil/waa>

#### Astronomical Telescopes and Instrumentation

27–31 March 2000 — Munich, Germany  
Contact: SPIE ([spie@spie.org](mailto:spie@spie.org))  
<http://www.spie.org>

#### IAU Colloq. No. 180, “Toward Models and Constants for Sub-Microarcsecond Astrometry”

27–31 March 2000 — Washington, DC  
Contact: Ken Johnston ([johnston.kenneth@usno.navy.mil](mailto:johnston.kenneth@usno.navy.mil))  
<http://aa.usno.navy.mil/colloq180>

#### Internat’l Astronomical Fed., “Bringing Space into Education”

3–5 April 2000 — Paris, France  
Contact: iaf@wanadoo.fr  
<http://www.iafastro.com>

#### XXV Gen. Assembly of the European Geophysical Society (EGS)

3–7 April 2000 — Florence, Italy  
Contact: EGS Office ([egs@copernicus.org](mailto:egs@copernicus.org))  
<http://www.copernicus.org/EGS/EGS.html>

#### IAU Coll. 181, “Dust in the Solar System and Other Planetary Systems”

10–14 April 2000 — Canterbury, UK  
Contact: M. L. Watts ([M.L.Watts@ukc.ac.uk](mailto:M.L.Watts@ukc.ac.uk))  
<http://www.ukc.ac.uk/physical-sciences/space>

#### IAU Symp. 200, “The Formation of Binary Stars”

10–15 April 2000 — Potsdam, Germany  
Contact: Hans Zinnecker ([hzinnecker@aip.de](mailto:hzinnecker@aip.de))  
<http://www.aip.de.IAU2000>

#### IAU Coll. 182: “Sources and Scintillations: Refraction and Scattering in Radio Astronomy”

17–21 April 2000 — Guiyang, China (PRC)  
Contact: Richard Strom ([strom@nfra.nl](mailto:strom@nfra.nl))

#### APS Meeting, Astrophysics Division Sessions include Origin of Magnetic Fields, Engine of Gamma Ray Bursts, First Chandra Results, Cosmic Rays, Highlights of 20th Century Astronomy.

29 April–2 May 2000 — Long Beach, CA  
<http://www.aps.org>

## 37th Space Congress

1–5 May 2000 — Cape Canaveral, FL  
 Contact: Michael Sumner (michael.sumner-1@ksc.nasa.gov)  
<http://www.SpaceCongress.org>

## 4th IAA Int'l. Conf. on Low-Cost Planetary Missions

2–5 May 2000 — Laurel, MD  
 Contact: R.W. Farquhar (diana.whitman@jhuapl.edu)  
<http://sd-www.jhuapl.edu/IAA>

## Gas and Galaxy Evolution

21–24 May 2000 — Socorro, NM  
 Contact: Michael Rupen (mrupen@nrao.edu)  
<http://info.aoc.nrao.edu/doc/vla/html/Y2K/hiconf.shtml>

## 7th Conf. on Intersections Between Particle and Nuclear Physics

22–28 May 2000 — Quebec City, Canada  
 Contact: Anne MacInnis (macinnis@mit.edu)  
<http://cipanp.mit.edu>

## Annual Meeting of the Canadian Astronomical Society

25–28 May 2000 — Vancouver, BC, Canada  
 Contact: Mark Halpern (halpern@physics.ubc.ca)

## 4th Tetons Summ. Conf., “Galactic Structure, Stars, and the ISM”

28 May–1 June 2000 — Grand Teton National Park, WY  
 Contact: Chick Woodward (tetons4@wapiti.uwyo.edu)  
<http://wapiti.uwyo.edu/tetons4>

## Galaxy Disks and Disk Galaxies

12–16 June 2000 — Rome, Italy  
 Contact: George Coyne (gcoyne@specola.va)  
<http://deborapd.astro.it/disks>

## XIX Int'l Conf. on Neutrino Physics and Astrophysics

16–21 June 2000 — Sudbury, ONT, Canada  
 Contact: Pierre Lamoureux (nu2000@nrc.ca)  
<http://www.nrc.ca/confserv/nu2000>

## NATO ASI on Space Storms and Space Weather Hazards

19–29 June 2000 — Crete, Greece  
 Contact: Anastasios Anastasiadis (anastasi@creator.space.noa.gr)  
<http://sat2.space.noa.gr/~daglis/asi2000.html>

## \*The 7th Synthesis Imaging Summer School

20–27 June 2000 — Socorro, NM  
 Contact: Greg Taylor (gtaylor@nrao.edu)  
<http://www.nrao.edu/~gtaylor/synth2000.html>

## 1st Guillermo Haro Adv. Lect. on the Starburst–AGN Connection

26–30 June 2000 — Tontantzintla, Puebla, Mexico  
 Contact: Secretaria del Programa Guillermo Haro (agn00@inaoep.mx)  
<http://www.inaoep.mx/~agn00/>

## Catastrophic Events and Mass Extinctions: Impacts and Beyond

9–12 July 2000 — Vienna, Austria  
 Contact: Elizabeth Wagganer (wagganer@lpi.jsc.nasa.gov)  
<http://cass.jsc.nasa.gov/meetings/impact2000>

## 33rd COSPAR Scientific Assembly

16–22 July 2000 — Warsaw, Poland  
 Contact: COSPAR Secretariat (cospar@paris7.jussieu.fr)  
<http://www.copernicus.org/cospar/cospar.html>

## 112th Meeting of the Astronomical Society of the Pacific

13–19 July 2000 — Pasadena, CA  
 Contact: S. Milanello (meeting@aspsky.org)  
<http://www.aspsky.org/meetings.html>

## The Cosmos in the Classroom 2: Teaching Astronomy to Non-Science Majors (Part of ASP Meeting)

17–19 July 2000 — Pasadena, CA  
 Contact: Andy Fraknoi (fraknoi@admin.fhda.edu)  
<http://www.aspsky.org>

## Astrobiology: The Early Solar System (Part of ASP Meeting)

17–19 July 2000 — Pasadena, CA  
 Contact: Laura Danly (ldanly@dmnh.org)  
<http://www.aspsky.org/meetings.html>

## XXIV Gen. Assembly of the International Astronomical Union

7–19 August 2000 — Manchester, United Kingdom  
 Contact: iau@iau.org  
<http://www.iau.org>

## IAU Symp. 202, “Planetary Systems in the Universe: Observation, Formation and Evolution”

7–10 August 2000 — Manchester, UK  
 Contact: Alan J. Penny (symp202@ast.star.ac.uk)  
<http://ast.star.rl.ac.uk/symp202/>

## \*IAU Symp. 203, “Recent Insights into the Physics of the Sun and Heliosphere—Highlights from SOHO and other Space Missions

7–11 August 2000 — Manchester, UK  
 Contact: Bernhard Fleck (iau203@esa.nascom.nasa.gov)  
[http://sohowww.nascom.nasa.gov/meetings/IAU\\_Symp203/](http://sohowww.nascom.nasa.gov/meetings/IAU_Symp203/)

## IAU Symp. 204, The Extragalactic Infrared Background and its Cosmological Implications”

15–18 August 2000 — Manchester, UK  
 Contact: Martin Harwitt (harwit@bellatlantic.net)  
<http://www.iau.org/symp204>

## IAU Symp. 205, “Galaxies and their Constituents at the Highest Angular Resolution”

15–18 August 2000 — Manchester, UK  
 Contact: R.T. Schilizzi (schilizzi@jive.nfra.nl)  
<http://www.nfra.nl/jive/iausymp.htm>

## The New Era of Wide-Field Astronomy

21–24 August 2000 — Preston, UK  
 Contact: Roger Clowes (r.g.clowes@uclan.ac.uk)  
[http://www.uclan.ac.uk/new\\_era](http://www.uclan.ac.uk/new_era)

## Eta Car and Other Mysterious Stars: The Hidden Opportunities of Emission-line Spectroscopy

24–26 August 2000 — Hven, Sweden  
 Contact: K. Davidson (kd@ea.spa.umn.edu)  
<http://ferrum.fysik.lu.se/hven2000>

## 4th INTEGRAL Workshop

4–8 September 2000 — Alicante, Spain  
 Contact: V. Reglero (loc@castor.daa.ua.es)  
<http://www.integral.ua.es>

## X-Ray Astronomy 2000

4–8 September 2000 — Mondello (Palermo), Sicily, Italy  
 Contact: xray2000@astropa.unipa.it  
<http://www.astropa.unipa.it/EVENTS/XRAY2000>

## \*20th NSO/Sac Peak Summ. Workshop: “Advanced Solar Polarimetry: Theory, Observational &amp; Instrumentation”

11–15 September 2000 — Sunspot, NM  
 Contact: ws2k@sunspot.noao.edu  
<http://www.sunspot.noao.edu/info/misc/workshops/2000/ws2k.html>

## Astronomical Data Analysis Software and Systems X

12–15 November 2000 — Boston, MA  
 Contact: P. Buckley (pbuckley@head-cfa.harvard.edu)  
<http://hea-www.harvard.edu/ADASS>

**NOMINATING COMMITTEE CANDIDATE STATEMENTS***Continued from page 11.*

Subcommittee, 1996–1998; NRC Committee for Astronomy and Astrophysics, 1998–; Member, Public Policy and Education

Panel of the Astronomy and Astrophysics Survey Committee, 1999–2000; Space Telescope Institute Council, 1999–.

*Statement:* The officers of the American Astronomical Society should provide effective and fair representation for its members and play a principal role in helping to create an exciting future for the fields of astronomy and astrophysics. This is both a wonderful and difficult time for astronomy. While the opportunities for discovery have never been greater, it is very difficult for the younger members of the society to secure long term employment in the field. The AAS needs leaders who can help rally the members of the AAS to become more effective advocates for the scientific and educational value of astronomy. As a member of the Nominating Committee, I will seek to identify and nominate those individuals who would be the most effective in helping the AAS to promote the general advancement of astronomy and the closely related branches of science.

**Ethan J. Schreier**

*Affiliation:* Space Telescope Science Institute.

*Position:* Associate Director for NGST.

*PhD:* Massachusetts Institute of Technology, 1970.

*Areas of scientific interest:* Active Galaxies and jets.

*Other experiences relevant to AAS service:* At Space Telescope Science Institute: Astronomer, 1981–; Associate Director for NGST, 1998–; Associate Director for Operations, 1988–1998; Head, Operations & Data Management Department, 1981–1988. At Smithsonian Astrophysical Observatory: Physicist, 1973–1981; Senior Project Scientist, Einstein Observatory, 1975–1981; Associate, Harvard College Observatory, 1975–1981; Co-Project Scientist, Astronomical Netherlands Satellite, 1973–1975. Senior Scientist, American Science and Engineering, Cambridge, 1970–1973; Research Assistant, Massachusetts Institute of Technology, 1966–1970; Research Assistant, Institute for Space Studies, New York, 1963–1965; Head, AURA Proposal Team for NGST (4/99–); Acting Vice President, AURA (9/96–10/96); Head, AURA Proposal Team for SOFIA (10/95–1/97); Acting Deputy Director, STScI (7/95–9/95); Head, Office of Public Outreach, STScI (4/95–9/95); Professional Activities and Committees Vision 2000 Review Committee, 1995–1998; “Bits of Power: Issues in Transborder Data Flow,” NRC Committee, 1994–1996; Gemini Director Search Committee, 1993–1994; AXAF Technical Review Board, 1993–1996; Earth Observing System (EOS) Data and Information System, NRC Panel, 1992–1993; IPAC Users’ Committee, 1988–1994; Science Operations Management Operations Working Group, NASA HQ, 1988–1992; Steering Committee, Information Systems for Space Astrophysics in the 21<sup>st</sup> Century, NASA HQ, 1990; Astronomy and Astrophysics Survey Committee Computing Panel, NAS, 1989–1990; Steering Committee, Astrophysics Data System Study, NASA HQ, 1987; Principal Investigator, Astronomy and Astrophysics Network Pilot Project, 1986; Committee On Data Management and Computation, Space Science Board, 1981–1986; Professional Societies: American Astronomical Society, International Astronomical Union; Awards, Honors: Phi Beta Kappa, Sigma Xi, Cosmos Club.

*Statement:* The AAS must continue evolving to meet the changing needs of the profession. New technology, major new observing and archive facilities, large international collaborations, and reliance on a combination of public and private resources offer opportunity and challenge. Our Officers and Councilors must have the scientific, technical and political literacy, as well as the diversity, to adequately represent the profession and move it forward. The nominating committee must find candidates both with experience and with new outlooks. Over the past 25 years I have worked with and helped develop several major astronomy facilities, in different wavelength domains; I know the evolving technology and sociology of our profession. My experience building collaborations has made me familiar with both the leaders in our field and the users of our major observatories. As a member of the nominating committee, I will draw on my personal experience and my broad pool of contacts to find candidates well qualified to serve as Councilors and Officers.

**Donna Weistrop**

*Affiliation:* University of Nevada, Las Vegas.

*Position:* Professor of Physics.

*PhD:* California Institute of Technology, 1971.

*Areas of scientific interest:* Interacting galaxies, star formation in galaxies, active galactic nuclei.

*AAS positions & dates:* Committee on the Status of Women, 1983–1987.

*Other experience relevant to AAS service:* HST-TAC 1998 (Chair, Field Stellar Pops.), NSF AST Review Panel, 1995; NASA UV, Visible, Grav. Astro. Review Panel, 1991, 1992, Chair, 1993), NASA Sounding Rocket Review Panel, 1990; IUE TAC, 1982, 1986, 1989, Chair, 1993; AAAS Sec. D (Astronomy) Nominating Committee, 1983–1986, Chair, 1986; NASA Astro/Rel. MOWG, 1981–1984.

*Statement:* The AAS membership today is remarkably diverse. We investigate problems ranging from the internal structure of the sun to the origin and ultimate fate of the universe. We are employed by academia, government, and private industry. Our concerns include the scientific literacy of the general public as well as the future of our science. As we enter our second century, the AAS must draw upon the knowledge and expertise of all members to survive and prosper in a changing and challenging environment for science. It is the role of the nominating committee to ensure that the expertise of all members is represented on the slate of officers presented to the membership. Having worked for NASA, private industry, and academia, I know that astronomers in each of these institutions develop a unique set of talents and skills. If elected, I would work to ensure that all of these abilities are included among the nominees for AAS office.

**REMINDER - Policy on Unpaid Journal Subscriptions***Member Subscriptions Only*

To help control rising Journal costs, the AAS has shortened the grace period for unpaid Journal subscriptions. After **1 January**, no unpaid subscriptions will be mailed. In the event a subscription is reinstated, there will be a surcharge for shipping the back issues — \$25 for the *ApJ* and \$15 for the *AJ* or *ApJ Supplement*, in addition to any membership reinstatement fee. If no back issues are required, no surcharge will be imposed.

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**AMERICAN ASTRONOMICAL SOCIETY  
INTERNATIONAL TRAVEL GRANT PROGRAM  
APPLICATION FORM**

Full Name \_\_\_\_\_ Gender \_\_\_\_\_ Year PhD Received \_\_\_\_\_

Optional, NSF report require.

Institution \_\_\_\_\_ Current Position \_\_\_\_\_

Address \_\_\_\_\_

Telephone \_\_\_\_\_ FAX \_\_\_\_\_ Email \_\_\_\_\_

*Please check all the boxes below where the associated statements apply:*

Applicant is a Federal Employee. Indicate below to whom the grant check should be made out:

Applicant is a graduate student. Provide advisor's name, contact information and expected degree completion date.  
*Attach a recommendation letter from advisor to this application.*

\_\_\_\_\_ Anticipated Degree Date \_\_\_\_\_

Funds requested for the XXIVth IAU General Assembly, Manchester, UK, 7–18 August 2000.  
*If not, indicate below the name and dates of the meeting for which funding is requested.*

Please justify need to attend and describe the activities in which applicant will participate (e.g. invited speaker, Commission member, contributing paper, etc.).

Anticipated carrier \_\_\_\_\_ Estimated air fare \_\_\_\_\_ Total Amount Requested \_\_\_\_\_

If not a US flag carrier, please explain below why not.

NB: Maximum allow. fare: economy round-trip from nearest large airport.

Applicant sought funding from other sources. Explain why funds could not be obtained from applicant's grant or institution (*attach additional pages, if necessary*):

*Please sign the following statement:* If I receive this travel grant, I will comply with all reporting requirements, acknowledge the grant in any related publication (i.e., conference proceedings), and return my report in a timely manner.

Applicant's Signature \_\_\_\_\_ Date \_\_\_\_\_

MAIL or FAX Application to:

**Travel Grant Selection Committee  
American Astronomical Society  
2000 Florida Avenue, NW, Suite 400  
Washington, DC 20009-1231  
Fax: 202-234-2560**

**APPLICATION DEADLINES: 1 March 2000 and 28 August 2000.**

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Staple Closed for Mailing

International Travel Grant Committee  
American Astronomical Society  
2000 Florida Avenue, NW, Suite 400  
Washington, DC 20009-1231

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## International Travel Grant Program

The AAS International Travel Grant Program is funded mainly by the NSF, with special funding made available by NASA for the IAU General Assembly. Astronomers holding a PhD (or the equivalent) and working at an US institution may apply for travel to the IAU General Assembly or for another international astronomy meeting. Particularly meritorious graduate students may apply, but must submit a recommendation letter from their advisor. Preference will be given to students in the final year of their dissertation work.

The review committee will favor applications from individuals early in their career or from less-endowed institutions. Other criteria include, but are not limited to:

- The value of the applicant in attending the meeting;
- The value to the meeting of the applicant's attendance;
- The value of the meeting in advancing a particular subject area;
- The relevance of the meeting's subject to the applicant's research;
- Whether the applicant is an invited speaker or presenter;
- Applicant's effort to find low fares on US flag carriers;
- Applicant's ability to find alternate sources of funding;

Applications must address the relevant criteria and make a favorable impression on the selection committee.

Grant recipients will be required to submit a final report including appropriate receipts and answer a short set of questions about the meeting that they attended. Failure to do so may limit further grants from the AAS to the recipient.

### Restrictions on Use of NSF travel grants:

Funds from the NSF may be used only in accordance with details included in the award letter. General limitations are listed below:

- No additional NSF funds may be used to augment travel grants funded in part or in whole by NSF funds;
- NSF funds may be used for travel costs of the applicant only;
- Travel costs will not exceed economy class airfare between reasonably sized airports close to the applicant's home institution and the meeting location;
- NSF form FL 26 governs the administration of this grant and copies of this form will be mailed to successful applicants;
- Federal employees must have prior approval from their agency to obtain funds from this program.

Other restrictions on the expenditure of NSF funds and/or NASA funds will be indicated on the award letter.

### Award Announcements

Awards will be announced for the two funding cycles by 17 March 2000 and 8 September 2000.

Staple Closed for Mailing



## COMMITTEE NEWS

### Committee on Employment

Due to space restrictions this month, we will present in the March 2000 Newsletter, another special column from an astronomer, Dr. José Navarro, who has found success in an alternative career. The Newsletter welcomes articles from any member who is interested in writing a guest column regarding their career, either 'traditional' or 'non-traditional.' Please send email to Kevin Marvel (marvel@aas.org).

### Peter Feibelman to Speak in Atlanta

Dr. Peter J. Feibelman will present a talk at the Atlanta AAS meeting entitled "Junior Scientist Survival Training." Dr. Feibelman works at the Sandia National Laboratories in Albuquerque, New Mexico. He is a solid state physicist and has been at Sandia since 1974. During his career he has received several honors and awards including the Davison-Germer Prize of the American Physical Society. He has recently published a book with Perseus Books entitled *A PhD is Not Enough* which was reviewed in the October 1999 AAS Newsletter and is available through the normal online bookstores or directly from Perseus Press. Dr. Feibelman's talk will be on Saturday, 15 January at 1:00 pm. A question period after the presentation is planned.

### Industrial Job Center in Atlanta

For the first time, the AAS in cooperation with the American Institute of Physics will operate an industrial job center at the Atlanta meeting. The normal job center AAS typically organizes will be expanded to include numerous postings from industry as well as room for industrial employers to present recruiting information. The AIP has a great deal of experience in running industrial job centers and has recently completed successful centers for both the Optical Society of America and the American Physical Society. Members may participate in the industrial job center by following the same procedures for the normal job center. Details are on the AAS web page with a link to the AIP website as well.

## HONORED ELSEWHERE

### Faber Chosen for Medal of Science Committee

President Clinton announced recently the appointment of AAS Member Sandra Faber to serve as a member of the National Medal of Science Committee. The group advises the President on the selection of National Medal of Science winners. From Clinton's statement: "Dr. Sandra M. Faber, of Monte Sereno, California, has served at the University of California Observatories/Lick Observatory in several capacities: from 1979 to the present, as Professor and Astronomer; from 1977 to 1979, as Associate Professor and Associate Astronomer; from 1972 to 1977, as Assistant Professor and Assistant Astronomer. Currently, Dr. Faber is University Professor in the University of California system. Dr. Faber served on the National Academy of Sciences, from 1992 to 1994, as Vice-Chair of the briefing report on Cosmology, and as Member of the Committee on Astronomy and Astrophysics."

## 1999 CHRETIEN GRANTS

### Hanany and Karachentsev/Grebel Win This Year

Two 1999 grants of \$10,000 each have been presented to **Shaul Hanany** of the University of Minnesota, Minneapolis and **Igor Karachentsev** from Russia collaborating with **Eva Grebel** of the University of Washington.

Dr. Hanany, a member of the Planck mission collaboration, will use his grant money in his role as leader of the optical design, production and integration of the Planck telescope. He will lead the development and flight of a balloon-borne CMBR experiment dubbed Archeops. This instrument will serve as a test bed for all critical Planck components, produce a CMBR map of approximately 25% of the sky and produce a dataset similar to the expected data from Planck. Archeops will therefore help to develop hardware, software and data analysis methods critical to the success of Planck. It should also provide measures for most of the cosmological parameters with an accuracy of 5 to 10 percent.

Dr. Karachentsev will use his grant to complete a census of the Local Group he initiated and recently presented initial results (Karachentseva, V.E. and Karachentsev, I.D. 1998, A&AS, 127, 409). This survey for low surface brightness dwarf galaxies will help fill in the faint end of the galaxy luminosity function. He will study photographic plates available at the Space Telescope Science Institute and then travel to Seattle to collaborate with Eva Grebel on follow-up observations, data mining of the Sloan Digital Sky Survey and further analysis. The anticipated census will complete the survey of the Local Volume to a limiting magnitude of  $M_v = 25$ , and expand our knowledge of the smallest, faintest members of our local neighborhood.



Shaul Hanany (U. Minn.) will apply his Chretien Grant toward the development of the Planck telescope.



U. Washington's Eva Grebel will collaborate with Russian Igor Karachentsev in Seattle as he completes work on a census of the Local Group.

### Member Deaths Noted

Since the October Newsletter, the Society is saddened to learn of the deaths of the following members:

William Calder  
John H. DeWitt, Jr.  
John W. Evans  
Charles A. Federer, Jr.  
Charlene Anne Heisler  
Dorothy N. Davis Locanthi  
Billie M. McCormac  
Carol A. Rieke  
Henry W. Spreitzer  
Jan van Paradijs

## NEWS FROM NSF

### More "New Faces at NSF"

*Hugh M. Van Horn, Director, Division of Astronomical Sciences*

The "rotator" system at the National Science Foundation (NSF) provides opportunities for a continuing flow of people and ideas between the community and NSF; that is one of the strengths of this system. In the October 1999 *AAS Newsletter*, we announced several changes in the staff of NSF's Division of Astronomical Sciences (AST). The three additional changes described in the present article complete AST's recruiting actions for the current fiscal year. One of our rotators is departing, and we are pleased to announce the addition of two new Program Officers. The purpose of this article is to summarize these changes, introducing our new rotators to our colleagues in the astronomical community.

After serving ably since 1994 as Executive Assistant for Gemini, **Susan Kayser** is leaving NSF. As the first person appointed to this rotator post, Susan helped to define the position. She did an excellent job, working closely with NSF's Special Associate for Gemini and with the Chair of the international Gemini Board to oversee the activities of the Gemini Board. She assisted with many aspects of the Gemini twin 8-meter telescopes project, including the provision of scientific and technical expertise, organizing Board meetings, and preparing brochures and annual reports. Susan deserves our sincere appreciation for her contributions to the success of the Gemini project, and we wish her well in her future endeavors.

**Sethanne Howard** has accepted a two-year, part-time appointment to the newly defined position of Divisional Staff Assistant. In this position, she will assist with the management of the Gemini Observatories and the Atacama Large Millimeter Array (ALMA) project. In addition, as time permits, she will assist with electromagnetic spectrum management and with divisional outreach activities for AST. Sethanne received her PhD in 1989 from Georgia State University, but she has been active in astronomical research ranging from planets to interacting galaxies since 1965. Recent prior appointments include two years as Program Director for Extragalactic Astronomy and Cosmology at NSF and three years as Discipline Scientist for Science Operations at NASA Headquarters. Sethanne can be reached after mid-October at [showard@nsf.gov](mailto:showard@nsf.gov) or by telephone at (703) 306-1833.

**James B. Breckinridge** has accepted an appointment as Program Manager for the National Radio Astronomy Observatory (NRAO) and as Program Director for Advanced Technologies and Instrumentation (ATI), effective 18 October 1999. Although new to the radio astronomy community, Jim is highly regarded in optical astronomy. An expert in optical and space instrumentation, Jim received his PhD in optical sciences in 1976 from the University of Arizona, and he has served in several responsible capacities during an 18-year career at the Jet Propulsion Laboratory (JPL), including service as Founding Technical Section manager of JPL's Optical Sciences and Applications Section. He was appointed to the HST Failure Review Board and led the JPL team that developed a solution to correct the wavefront error of the primary mirror of the Hubble Space Telescope (HST). Jim's outstanding technical and managerial credentials will be of great benefit to both the ATI program and NRAO. Jim can be reached at [jbreckin@nsf.gov](mailto:jbreckin@nsf.gov) or by telephone at (703) 306-1829.

### New Strategic Plan for NSF's AST

The new Strategic Plan for the Division of Astronomical Sciences (AST), in the Directorate for Mathematical and Physical Sciences (MPS) at the National Science Foundation (NSF), is now publicly available on AST's Web page at <http://www.nsf.gov/mps/ast/strategicplan/index.htm>. AST has asked the Committee on Astronomy and Astrophysics (CAA) to provide advice on reconciling this Strategic Plan with the report of the Astronomy

and Astrophysics Survey Committee (AASC) when the latter document becomes available.

### Major Research Instrumentation (MRI) Program

The solicitation for the 2000 Major Research Instrumentation (MRI) competition (publication number is 99-168) is now publicly available on the NSF website, <http://www.nsf.gov>. You can see the solicitation in the NSF online document system or on the OIA homepage. The deadline for submission of proposals is **18 January 2000**. Please note that this deadline is about one month earlier than last year and that there are new FastLane submission requirements for the signed cover sheet and all accompanying documents, which must be submitted electronically with the proposal rather than five business days later in hard copy. If you have any questions about the solicitation, please contact the Office of Integrative Activities at 703-306-1040 or [mri@nsf.gov](mailto:mri@nsf.gov).

## NEWS FROM CANADA

*Thanks to Ralph Pudritz, Chair of Long Range Planning Panel (LRPP) which produced the eagerly awaited, **Canadian Astronomy and Astrophysics in the 21st Century**, the AAS Newsletter prints a copy of the Executive Summary. Sometime in January, the full report in English and French as well as information about how to obtain the paper copy will be posted at <http://www.hia.nrc.ca/lrpp>. The plan was sponsored by the National Research Council of Canada (NRC), the Natural Sciences and Engineering Research Council (NSERC) and the Canadian Astronomical Society (CASCA).*

### *The Origins of Structure in the Universe: Canadian Astronomy and Astrophysics in the 21st Century* Executive Summary

The LRPP considered a large number of worthy proposals for new observatories, instruments, and even institutes. We do not further describe the initiatives that the LRPP decided not to recommend. **All of the recommendations discussed in this report, described in detail in Chapter 5, are to be regarded as being essential to Canadian astronomy and astrophysics.** Our recommendations are grouped into two classes, with no further prioritization given to projects within a class. The class given highest priority denotes facilities, projects, and other initiatives whose failure to be funded would lead to particularly severe and permanent damage to our future in the field.

*Our recommendations for participation in new major facilities, as well as in moderate size projects and facilities in the next decade are:*

- **The LRPP strongly recommends** that Canada should quickly join the Atacama Large Millimeter Array (ALMA) project. This should be Canada's highest priority for participation in a major ground-based observatory.
- **The LRPP strongly recommends** that Canada, through the CSA, quickly join the Next Generation Space Telescope (NGST) project. This should be Canada's highest priority for participation in a major space-based observatory.

ALMA and NGST are the two new, first generation world observatories that will appear in 2000–2010. They will be among the key observatories of the next century and have the highest priority in the USA, and European astronomical plans.

- **The LRPP strongly recommends** that the Canadian Large Adaptive Reflector (LAR) concept be carried forward into prototypes for key component (phase B) studies. This study should be one of the highest priorities among moderate size projects.

Canada is poised to play a leading role in the second generation of world observatories that will likely be constructed in 2010–2020, particularly in the unique and highly innovative LAR design concept for the world Square Kilometre Array (SKA) for centimetre wave radio astronomy.

- **The LRPP strongly recommends** that a team be established to develop designs for a Very Large Optical Telescope (VLOT). This study should be one of the highest priorities among moderate size projects. Canada should join a world team in this effort.

Canada should also position itself to be involved with a possible ground-based Very Large Optical Telescope (VLOT) that may be 25 metres in diameter or even more. VLOT will be highly complementary to NGST.

- **The LRPP recommends** that a development envelope should also be established that could fund the construction of LAR or VLOT prototypes, if recommended by a rigorous mid course review in approximately five years time.

- **The LRPP recommends** that Canada position itself now for entry into the construction of SKA as well as VLOT.

The tetrad of world observatories, with ALMA and NGST appearing in 2000–2010, and SKA and VLOT likely in 2010–2020, will constitute a complementary, and amazingly powerful set of observatories that will be 100 to 1000 times more sensitive than any observatories today, over an immense range of wavelengths. They will enormously advance all of the scientific goals in the search for the origins of structure. They will also all be major stimulants to the development of new technology and industry.

- **The LRPP strongly recommends** the enhancement of the correlator and receiver groups within NRC. This should be one of the highest priorities among moderate size projects.

These groups will be of central importance in Canada's participation in ALMA and SKA. The NRC should energetically investigate the creation of strong, mutually beneficial, collaborative links with the USA's National Radio Astronomical Observatory (NRAO) as one of the most efficient routes for rapid entry into ALMA. The involvement of the correlator group in NRAO's planned Very Large Array extension would be an excellent use of our expertise in correlators and could serve as a good entry card into ALMA.

- **The LRPP strongly reaffirms** Canada's commitment to the Gemini project over the coming decade. Gemini should be given the highest priority for ongoing operation and support of our international observatories.

Gemini will provide exciting capabilities in a forefront telescope in the new 8–10 metre era that is upon us.

- **The LRPP recommends** that our community quickly obtain significant participation (40%) in the construction and operation of a new, optical/infrared, 8 metre class telescope. Wide-field capability (WF8m) should be given priority.

In order to keep our community competitive in the era of 8 metre optical and infrared telescope science, a new, wide field of view, 8 metre telescope should be constructed to complement the capabilities of the Gemini optical telescopes which are now coming on line. If a compensating share of a new, wide field 8 metre becomes available, then priority for resources invested in the CFH 3.6 metre telescope should be given to the 8 metre, as needed.

Priority for resources invested in JCMT must be given to support ALMA beyond 2009. The extended Galactic Plane Survey should be supported until 2005.

- **The LRPP recommends** that Canada, through the CSA, join and participate in the FIRST/Planck satellite mission.

The FIRST/Planck satellite for millimetre astronomy would provide invaluable measurements of fundamental cosmological parameters.

- **The LRPP recommends** that an on-going presence in space-based VLBI be maintained through CSA programs.

*Our recommendations for the support of people at institutes and universities include:*

- **The LRPP strongly recommends** that at least six additional staff astronomers, of the highest calibre, be hired for the HIA, in addition to new technical staff. This must be one of the highest priorities in funding new people. There must be a concerted effort to rebuild the HIA staff both to facilitate Canada's participation in the coming world observatories and to maintain our present international

commitments. The HIA should also play an increased role in front-rank research and scientific leadership.

- **The LRPP strongly recommends** that high profile, international postdoctoral fellowships of the stature of the NASA Hubble Fellows be established. This should be one of the highest priorities in funding new people:

1. The CSA and NSERC should jointly initiate a new fellowship program, featuring at least six, 3 year postdoctoral fellows, awarded through the highest level international competition open to Canadian and non-Canadians alike, and to be tenable at any Canadian University or CITA.

2. Similarly, NRC should initiate a similarly prestigious new Herzberg Fellow program consisting of a total of six, 3 year Herzberg postdoctoral fellows, tenable at any NRC astronomy facility or laboratory.

- **The LRPP strongly recommends** that university laboratories for experimental astrophysics be created. This should be one of the highest priorities among moderate size projects. These could be supported by NSERC, as well as other agencies, and will need commitments of infrastructure and faculty positions from the host universities.

A substantial investment in our research groups at institutes and universities needs to take place in concert with the development of the new facilities, in order to reap the highest scientific returns and to generate much stronger links with technology.

*Our recommendations for the support of computational initiatives include:*

- **The LRPP strongly recommends** that NRC's outstanding CADC develop its ability to manage archives of data from upcoming space and ground-based observatories. Funding should be provided to develop innovative data mining techniques that maximize the scientific usefulness of multi-wavelength observations in astronomy. This should be one of the highest priorities among the computational projects.

- **The LRPP strongly recommends** that funds be allocated towards the support and upgrade of a joint NRC/CITA mid-range parallel computer plus a local user-support person. Furthermore, this capability should be located at CITA to provide national high performance computing for modelling and simulations. This should be one of the highest priorities among the computational projects.

Our academic computational resources lag far behind those of other nations and require immediate bolstering and support.

*Our recommendations for the establishment of vigorous outreach programs include:*

- **The LRPP strongly recommends** that approximately 1.5 % of any project budget be allocated towards the support of related outreach efforts. This should be one of the highest priorities among the outreach initiatives. Furthermore, the NRC and the CSA should create modern visitor centres that would further aid in the education and enjoyment of the public and the media.

- **The LRPP strongly recommends** that the Canadian Astronomical Society (CASCA) and the NRC with the participation of the CSA, create a first rank national web site for astronomy. This should be one of the highest priorities among the outreach initiatives.

- **The LRPP recommends** that CASCA play a steering role in the area of educational outreach to schools. It should allocate resources towards providing workshops and tools for teachers, maintaining a related web site, and employing an information officer who could co-ordinate these activities.

It is critically important to develop comprehensive public outreach programs of different kinds. A concerted and sustained effort must be made to establish a multi-tiered outreach program that encompasses the public, educational institutions, amateur groups, the government, and the media.

## DIVISION NEWS



### Division for Planetary Sciences

#### DPS October Meeting in Italy

*Alan Harris, Secretary/Treasurer*

In approximate proportion to the fraction of DPS members who live in Europe, the DPS attempts to hold its annual meeting in Europe approximately every sixth year. Past European meetings were in Paris in 1986 and Munich in 1992. The 31st annual meeting was held in Abano Terme, near Padova, Italy, 10-15 October 1999. A total of about 700 people attended, making the meeting possibly the largest to date. About twenty young astronomers, plus several eastern European astronomers, received financial aid to attend the meeting.

The meeting began with registration and a "welcome cocktail" reception on Sunday evening. Apparently in Italy a "welcome cocktail" includes poached salmon, various salamis, prosciutto, breads, vegetables, chocolates and other sweets, etc. We were off to a good start.



*(From the left) DPS retiring Chair Don Yeomans (JPL), Sagan Medalist Clark Chapman (Southwest Research Institute), and retiring Past Chair Ed Barker (U. Texas, McDonald Observatory) following the presentation of the Sagan Medal in the Aula Magna. Courtesy, Clark Chapman.*

Magna, or "Great Hall," impressively adorned with coats of arms of past Rectors of the Universities (of Law and Arts).



*Clark Chapman (Southwest Research Institute) delivering his Sagan Medal Lecture on "Bring Planetary Science to the Public."*

On Monday, after a morning of oral paper sessions, all attendees were bussed to Padova for the formal opening of the meeting in "Il Bo," the oldest part of the University of Padova (founded in 1222, one of the oldest universities in Europe). The opening ceremony was held in the Aula

**Galileo** lectured in this room during his tenure at the University of Padova. Following welcomes from **Gianandrea Bianchini**, the Chair of the Local Organizing Committee, **Don Yeomans** as Chair of the DPS, and representatives of the University

Rector, city and province of Padova, and the Veneto region, we heard an invited talk by **Giovanni Bignami**, Scientific Director of Italian Space Agency, "Comets, Planets and the Sky: Italian's Roots in Space."

Following this was the presentation of the Sagan Medal for outstanding communication by an active planetary scientist to the general public, to **Clark Chapman**. Since the meeting was in Italy, and Clark was unable to address the local "general public" in their language, he chose instead to direct his lecture to the planetary science community, with a talk entitled "Bring Planetary Science to the Public."

Two other prizes were awarded on Tuesday. The Urey Prize for outstanding achievement by a young planetary scientist was awarded to **Douglas Hamilton** for his major contributions to our understanding of the dynamics of dust under many different conditions in the solar system.

Later in the day, **Wesley T. Huntress**, NASA Associate Administrator for Space Science from 1993 to 1998, was presented with the Masursky Award for meritorious service to the planetary science community. The fourth prize of the DPS, the Kuiper Prize for outstanding achievement in planetary science, was awarded to **Armand Delsemme**.



*DPS Past-Chair Ed Barker presented Wes Huntress (CIW) with the Masursky Prize for meritorious service to planetary astronomy*



*DPS Vice-Chair Bob Nelson (right) presented the Urey Prize to Doug Hamilton (U. Maryland) for outstanding achievement by a young scientist. Hamilton was recognized in particular for a new model of Saturn's E-ring, prediction of a dust ring of Mars and the origin of high speed streams of dust detected by the Ulysses spacecraft near Jupiter.*



*(From l. to r.) European DPS members Hans Scholl (Obs. de Nice), MariLiza Koukouli (from Greece, student at Oxford U.) and Andrea Carusi (IAS-CNR) present home-made olive oils at a tasting hosted by DPS Secretary/Treasurer Alan Harris. A variety of Italian cheeses and local wines were also sampled.*



Incoming DPS Vice-Chair Mark Sykes (left, Steward Observatory, U. Arizona) and Program Committee Chair Guy Consolmagno (of the Vatican Observatory Research Group, Steward Observatory) enjoy a refreshment during a break.

However he was forced to return early to the United States for medical treatment and was unable to receive his award or deliver his prize lecture.

For the first time in its history, the DPS program was divided into triple sessions for almost all of the time. Only prize lectures were

given in plenary. 334 oral papers were scheduled, in addition to 272 poster presentations.

On Wednesday afternoon, attendees were offered the opportunity to tour Venice, only a short distance away. The tour included a boat trip down the Grand Canal and out to the islands of Murano (glass-blowing factories) and Burano (lace-weavers),



Enjoying the DPS banquet are (from l. to r.) Annamaria Angrilli, Prof. Francesco Angrilli, Director of CISAS, the host institution, Giandrea Bianchini, LOC Chair (also of CISAS), and Francesco Bertola (Padova Observatory).

followed by free time in and around Piazza S. Marco. Your loyal DPS Secretary, who is writing this, was unfortunately too busy doing things like electronically transmitting the pictures that appear with this article, to go to Venice or for that matter to attend many of the scientific

sessions. I am told both were great, but my report is necessarily light on those details.

Thursday evening featured a gala banquet, attended by over half of the registrants, held in the elegant clubhouse of a nearby golf country club. We were treated to yet another feast of local wines and food specialties.



(From the left) LOC Chair Giandrea Bianchini, Laurie Yeomans, DPS Chair Don Yeomans and LOC Co-Chair Claudio Casacci (Alenia Aerospazio, Torino).

Another first for the DPS was the continuation of sessions until the very end of the day Friday, in order to fit in all

the oral sessions. Those of us planning the meeting presumed this would not be too much of a hardship considering that there is only one chance a day, in the morning, to fly back to the US, so not many people could be expected to leave early. Indeed we received no complaints on this, and in fact it seems quite a few of our members chose to suffer the entire weekend, or even longer, in Italy before returning home.

## High Energy Astrophysics Division

*Gordon Garmire, Chair*

### Next Business Meeting in Atlanta

I would like to announce the HEAD business meeting on 13 January in the same room as the preceding HEAD Session, at 1:00 pm. Business items will include the announcement of new Counselors, a new Vice Chair, a new Secretary/Treasurer, and the 1999 Rossi Prize. Dr. Alan Bunner will make a brief status report on the NASA programs. Some highlights from the Chandra X-ray Observatory will conclude the session.

## Division on Dynamical Astronomy

*Marc Murison, Secretary, murison@aa.usno.navy.mil*

### Spring 2000 Meeting in Yosemite

The spring 2000 DDA meeting will be in Yosemite National Park from 9–12 April 2000. The deadlines for abstract submissions and room reservations are likely to be in late February or early March. The Organizing Committee consists of Roy Laubscher (local host, laubcorp@impulse.net), Joseph A. Burns (Vice Chair, jab16@cornell.edu), and Marc Murison (Secretary, murison@aa.usno.navy.mil). Further information, including lodging details, deadlines, invited speakers, and meeting program, will be posted to the DDA web site (see below) as it becomes available. You are also welcome to contact anybody on the Organizing Committee. DDA members will receive the DDA Newsletter, containing full meeting and other information, in January.

### Funds Available: 2000 Student Stipends

The DDA is once again holding a competition for student papers to be presented at the spring meeting and can award up to two \$400 stipends. Any currently full- or part-time college or university student is eligible. The deadline for 2000 applications is **1 February 2000**. Submission rules and details are at the DDA web site.

### Should YOU be a member of the DDA?

The purpose of the American Astronomical Society's Division on Dynamical Astronomy (DDA) is the advancement of all aspects of dynamical astronomy, including celestial mechanics, solar system dynamics, stellar dynamics, the dynamics of the interstellar medium, and galactic dynamics, as well as coordination of research in these areas with other branches of astronomy. If your research involves gravitational dynamics of almost any sort, you might consider joining the DDA and participating in its congenial annual meetings (usually held in the spring). More information, as well as an application form, may easily be obtained at the DDA web site, or from the DDA Secretary (murison@aa.usno.navy.mil).

**DIVISION NEWS***Continued from page 21***DDA Web Site**

The Division welcomes students and AAS members to visit its web site at <http://dda.harvard.edu/> where all the latest Division news, meeting information, and DDA arcana can be found.

**Historical Astronomy Division***Virginia Trimble, Chair***Gingerich Is 2000 Doggett Prize Lecturer**

The Historical Astronomy Division is pleased to announce that the LeRoy Doggett Prize Lecturer for 2000 will be **Owen Gingerich** of the Harvard-Smithsonian Center for Astrophysics. Gingerich is being recognized for a lifetime of contributions to the history of astronomy. The lecture, on the work of Copernicus and its significance, will take place at the Atlanta meeting, on the morning of Saturday, 15 January 2000.

**HAD Newsletter**

The Division *Newsletter* includes announcements of relevant meetings, brief reviews of books, and other items of interest to members, as well as short contributions on the subject (which need not be deadly serious). Contact the *Newsletter* editor, Tom Hockey ([hockey@uni.edu](mailto:hockey@uni.edu)).

**ANNOUNCEMENTS****Call for NRAO Observing Proposals**

Astronomers are invited to submit proposals for observing time on the NRAO Very Large Array (VLA), Very Long Baseline Array (VLBA), and 12 Meter Telescope:

Instrument	Deadline	Observing Period	Note
VLA	2000 Feb 1	2000 Jun–2000 Sep	D config/max baseline 1 km
	2000 Jun 1	2000 Oct–2001 Jan	A config/max baseline 36 km
VLBA	2000 Feb 1	2000 Jun–2000 Sep	
	2000 Jun 1	2000 Oct–2001 Jan	
12 m	2000 Jan 1	2000 Apr–2000 Jun	
	2000 Jul 1	2000 Sep–2000 Dec	

The NRAO 140 Foot Telescope is closed to new proposals, in expectation that visitor observing with the NRAO Green Bank Telescope will commence in mid-2000.

The NRAO and the European VLBI Network jointly handle proposals for observing time on the Global VLBI Network. The deadlines are **2000 Feb 1** for the sessions in 2000 May/June and Sep, and **2000 Jun 1** for the session in 2000 November. Further information on NRAO instruments and proposal submission routes is available from the NRAO home page at <http://www.nrao.edu>.

**Opportunities on USAF's Maui Telescope**

Civilian scientists and astronomers will have the opportunity to use one of the Air Force's most advanced telescopes under a joint initiative with the National Science Foundation (NSF). The Air Force Office of Scientific Research (AFOSR) and NSF's Division of Astronomical Sciences have agreed to make the 3.67 meter Advanced Electro-Optical System with adaptive optics, at the Maui Space Surveillance System in Hawaii, available for 100 observing nights in FY 2000 and FY 2001. Details may be found at "Research Opportunities" on the AFOSR website at <http://www.afosr.af.mil>.

**Funding Opportunities at NIAC**

The NASA Institute for Advanced Concepts (NIAC, <http://www.niac.usra.edu>) is currently funding grants and contracts related to all of the NASA Enterprises, including several that relate directly to astronomy. The NIAC has been formed to be an independent source of revolutionary aeronautical and space concepts which could dramatically impact how NASA develops and conducts its mission 10 to 40 years in the future. A Call for Phase I Proposals has recently been released with a due date of **31 January 2000**.

**NSO Observing Proposals**

The current deadline for submitting observing proposals to the National Solar Observatory is **15 January 2000** for the second quarter of 2000. Information about how to obtain forms, information and a Users' Manual is available at <http://www.nso.noao.edu>.

**Call for Arecibo Observing Proposals**

NAIC invites proposals by **1 February 2000** for use of the 305-m diameter Arecibo radio telescope for the period June 2000–January 2001. Details of the proposal submission procedure can be found on the NAIC Web Page at <http://www.naic.edu/navmenu.htm>, along with other user related information. Observations are currently scheduled largely (though not exclusively) at night. A VLBA4 recorder for Very Long Baseline Interferometry (VLBI) should be delivered in the near future. Proposals to include Arecibo in VLBA, EVN or Global network observations need to only be submitted to those networks, but a special justification for the inclusion of Arecibo should be made in the proposal.

**Fellowships: Geophysical Fluid Dynamics Study**

The 2000 Geophysical Fluid Dynamics (GFD) summer study program will focus on "The General Circulation of the Atmosphere" and will be held from 19 June–25 August 2000 at the Woods Hole Oceanographic Institution in Woods Hole, Massachusetts. Up to ten competitive fellowships are available for graduate students. Further information and application forms may be obtained through the Education section of the WHOI World Wide Web homepage at <http://www.whoi.edu>.

**Nature Seeks Astronomy Articles**

As of 1 December 1999, *Nature* will be accepting electronic submission of manuscripts in all areas of astronomy and astrophysics, in postscript format only. For details, please see the web page <http://www.helix.nature.com/submission/index.html>. If there are any questions, please direct them to Leslie Sage at [l.sage@naturedc.com](mailto:l.sage@naturedc.com).

**OVRO Millimeter-Wave Array Proposals Due**

The deadline for proposals for observations with the Owens Valley Radio Observatory millimeter-wave array in the period February 2000 through May 2000 is Monday, **10 January 2000**, 5pm PST. Proposals from investigators who are not at Caltech are *strongly encouraged*; in the past, external proposals have received about half of the assigned time in the observing season. Instructions for submitting proposals and technical information about the array can be found at the OVRO web site at <http://www.ovro.caltech.edu/mm/main.html>. Questions concerning the interferometer or proposal submission should be directed to one of the OVRO postdocs listed at the above web site, or by contacting Anneila Sargent at [afs@astro.caltech.edu](mailto:afs@astro.caltech.edu) or 626-395-6622.

## ASP NEWS

Bob Havlen, Executive Director

### ASP Award Nominations Due

The *Robert J. Trumpler Award* is given to a recent recipient of the PhD degree in North America whose research is considered unusually important to astronomy. Candidates must have received their PhD on or after 1 May 1997 and must be nominated by their department chairs. Nominations must be received by **1 February 2000**.

The *Maria and Eric Muhlmann Award* is given for recent significant observational results made possible by innovative advances in astronomical instrumentation, software, or observational infrastructure. The award is granted for advances in any area of astronomy without restriction to wavelength or space/ground-based observations. Individuals as well as research teams are eligible. Nominations consisting of a two-page letter from any member of the astronomical community worldwide are due on **31 December 1999**.

The *Klumpke-Roberts Award* recognizes outstanding contributions to the public understanding and appreciation of astronomy. Contributions may be in the form of popular books and articles, lectures, radio, TV or movie production, or service to public education in astronomy of any other nature. Two-page nomination letters from astronomers as well as the general public are due on **31 December 1999**.

More information about each of the ASP Awards including lists of past winners can be found on the ASP web site at <http://www.aspsky.org/membership/awards.html>.

Winners are selected by the ASP Awards Committee, a subcommittee of the ASP Board.

### Public Lecture Listings

All public lectures in North America known to the ASP are now listed on the ASP web site for the benefit of the public-at-large, the taxpayers who support much astronomical research. But we cannot list lectures unless you tell us about them first! Please help us publicize your lectures by notifying the ASP at [rhavlen@stars.sfsu.edu](mailto:rhavlen@stars.sfsu.edu). Any lecture that is given by an astronomer and is open to the public qualifies for our listings. You may want to check out the listings yourself to see which of your colleagues are giving Shapley Lectures.

### AAS Publicizes Journals Donations

In response to an increasing number of inquiries, the AAS hosts a Donations Web Page to publicize offers of — or requests for — astronomy-related publications and materials.

The **AAS Book, Journal, and Equipment Donation Forum** at <http://www.aas.org/donation/> is maintained by Ed Anderson of Northern Arizona University and will help match donors and recipients. Please note that the AAS cannot provide shipping services.

## WASHINGTON NEWS

*Continued from page 24*



online at an astronomer-organized database called Zip-to-It at <http://www.visi.com/juan/congress> or on the member's home page at either <http://www.house.gov> or <http://www.senate.gov>. If you need more information such as staff names or specialization please call me in Washington at 202-328-2010.

When you visit the member or their staff, keep your statements brief and to the point. Let them know you are in this game for the long haul (they get hundreds of one-time only visitors). Let them know you want to build a longer-term relationship with them and they will be more attentive and relaxed. Emphasize that you want to help them as much as you want them to help you. Describe what you do, how many students you teach, the excitement of your research and, most importantly, how federal research money helps your day-to-day activities. Individuals working at national laboratories or at federally-funded institutions *can* make these kinds of visits. They are only restricted from lobbying for particular programs or the laboratory/facility in which they work.

## PRESIDENT'S COLUMN

*Continued from page 1*

If we all work together to secure the objectives set forth by the long-range planning processes for which our community is highly respected in Congress, a stable and secure funding future for astronomy and space science can be assured. If, on the other hand, we, as individuals, look only each to our own good and approach Congress separately for independent projects, we will ultimately harm our cause. The NASA appropriations bill contains many unfunded, unplanned earmarks. The Office of Space Science (OSS) must fulfill these "special interest" requirements in the appropriations bills, even if by doing so they shortchange other programs that have been endorsed by the broader community. The OSS prioritizes and plans their projects with great care, utilizing members of the astronomy and space science community to provide expert input, advice and prioritization. Earmarked funds bypass this procedure, place undue burdens on the OSS, and will ultimately damage the OSS mission and the long-range plans of our community.

Again, I thank you for your support in our recent effort and I look forward to working with you, our members, to secure a healthy research budget for astronomy and space science for the future.



# ELECTION ISSUE



Printed with Soy-Based Inks on  
20% Postconsumer,  
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## WASHINGTON NEWS

Kevin B. Marvel, Associate Executive Office for Policy Programs



Every year when the leaves start to fall in Washington, Congressional staffers gear up for the busy time ahead. The appropriations bills are all supposed to be passed by Congress and signed by the President before October 1 but this has not happened for years. This year, Congress has managed to pass most of the appropriations bills, but the President is

likely to veto most of them. By the time you read this column most of the jockeying and power playing will have been wrapped up as Congress never likes to ruin its holidays. Happily for astronomy, the VA-HUD-IA appropriations bill that fund NASA and NSF meets the President's goals and he will sign it into law early in this process.

Astronomy and Space Science came out ahead this year, mainly due to our community responding quickly and loudly to the drastic cuts proposed by the House. However, we should begin now to prepare for next year's process. Last minute communications are often effective and have a dramatic impact but it is far more important to establish long-term relationships with legislators.

*Last minute communications are often effective, but it is far more important to establish long-term relationships with legislators. ...Getting in to see your legislator is easier than getting a doctor's appointment.*

Making contact with your members of Congress is a simple activity that has a long-term payoff. When members consider legislation, they consider the impact of the bill in the context of their constituents. More often than not, they consider how it will affect the constituents they know. Some members even call constituents they know and respect to ask their opinion on pieces of legislation and their thoughts about the impact of the bill on the home district or state. This means that knowing your representative or at least their staff member is of the utmost importance.

### Making Contact

Getting in to see your legislator is easier than getting a doctor's appointment. First, you need to decide if you will visit in Washington or in the home district. Visiting in Washington is worthwhile, but you most often meet with staffers and not the member themselves. Visiting a member in the home district office is much more likely to get you a personal visit with the member.

First, determine if Congress is in or out of session. The annual Congressional schedule is posted on the House web site:

[http://www.house.gov/house/1999\\_House\\_Calendar.htm](http://www.house.gov/house/1999_House_Calendar.htm).

When Congress is out of session the member is usually in the home district. Often they fly home on the weekends, leaving DC Friday morning or afternoon and returning on Monday. These are working weekends for the member and you could consider inviting your member to visit a public night at the local observatory, an amateur star party or other event. Contact information for the member in their home district is available