

January
February
2009
Issue 144

AAS Newsletter

A Publication for the members of the American Astronomical Society

NEW
ISSUE!!!!

President's Column

John Huchra, president@aas.org

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Hubble
Status

Well well well! "The times they are a'changin'" (B. Dylan, 1964, followed by almost every paper in the country, November 2008). We are watching massive changes in the direction the new administration is taking with regard to science. Serious prospective appointments are being named almost every day (yesterday's was Nobel Prize winning physicist Steve Chu to head the Department of Energy) by President Obama's transition team. As I write this column, there is an expectation that a real budget for Federal fiscal year 2009 will be passed—not a Continuing Resolution. This is very good news for both the NSF and DOE's Office of Science, but bad news for NASA science and physical science education in the Department of Education. In a turn I did not expect, Obama's transition team have taken a direct and immediate interest in the science agencies plans and operations. We can expect timely changes in leadership, and, in a few cases, reaffirmation of the existing team. I personally hope this is a strong signal of the return of science in appropriately informing legislative and regulatory decisions, something that has not happened for the better part of eight years.

exoplanet imaging results. Wow! Fomalhaut! I had not expected to see images of objects orbiting other stars until SIM or TPF flew. The power of adaptive optics and the power of apodization in space won the day. Phoenix was shut down by the Martian winter after finding water on Mars. Fermi is beginning to fulfill its promise with gamma-ray images of the sky. NASA and DOE can indeed work together. *Discover* magazine has posted its top 100 science stories of 2008. Astronomy captured 12 of the spots with our top slot, #6, going to Phoenix and ice on Mars, followed by Messenger's images of Mercury in the #22 spot, and the link between the Milky Way's central black hole and star formation at #23. Near the tail end of this distribution, at #97, is the IAU's designation of Trans Neptunian Dwarf Planets as "Plutoids." A name I expect that will go down in infamy.

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Honored
Elsewhere

There is a downside for astronomy. We are still not considered an integral part of the competitiveness initiative, despite the strong place astronomy holds in broad science education throughout K-16. The economic downturn coupled with the increase in both the public and governmental interest in climate and sustainability is sure to lead to strong targeted support for Earth science and alternative energy. This is appropriate, or as I like to paraphrase, "Render unto Congress that which is Congresses'," but it will likely hurt those fields less directly related to the immediate societal problem.

In the same issue is a story about one of my astronomical heroes, Fritz Zwicky. Think about your own careers in astronomy. If you have been lucky, you will have interacted with someone who is a dynamo. Someone spewing forth new and interesting ideas, or fighting the good fight against static science, or building institutions that help us all and advance the field, often against heavy odds. Fritz was one of those, especially in the new ideas and the battling the "high priests" modes.

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Member
Anniversaries

There is other good news though. ESA has gotten a very strong vote of confidence from the European ministers who thoroughly supported a 10 billion Euro new spending package and a multi-year 3.5%/per annum increase in the space science budget. This kind of support and long term planning is one of the reasons other countries can get ahead of the US, where the spending for almost every agency and project is approved only year by year.

I was lucky, as a very wet behind the ears grad student, to share office space with his blink comparator in the sub-sub-basement of Robinson Lab at Caltech. While he railed against the senior, often very stodgy, community, he always had a kind and inspiring, and usually insightful word for the young whippersnappers. He taught me to look to the sky for the truth. I miss him.

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Mentoring
Requirement

Finally, I just note that the January AAS meeting kicks off our next Decadal Survey. This one will start with science priorities and use them to produce a program for projects and facilities. It is extremely important that we all be involved. The AAS can help provide venues for input and interaction with the Survey Committee and its panels, but it can not provide input or ideas for new science or new projects. That's up to you, the community. As they say in my home town (Jersey City), speak early and speak often. Go to it!

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Items of general interest to be considered for publication in the *AAS Newsletter* should be sent to crystal@aas.org. Appropriate pictures are welcome. For information about deadlines and submitting articles, see www.aas.org/publications/newsletter.php. Items submitted to the *AAS Newsletter* are not automatically included in the AAS Electronic Announcements or vice versa. Submit electronic announcement items to crystal@aas.org.

Judith M. Johnson, Editor

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The *AJ* and *ApJ* accept manuscripts electronically that are prepared using the AASTeX manuscript package. Following are some important addresses for obtaining information about AASTeX and electronic submission.

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User Support: aastex-help@aas.org

Journal Homepages/Manuscript Submission: journals.aas.org

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From the Executive Office

Kevin B. Marvel, Executive Officer, marvel@aas.org

This year we will all celebrate the 400th anniversary of Galileo's first studies with a telescope. It is fitting that we also start the next of our field's Decadal Surveys. The astronomers have come together every decade since the 1950s to rank our scientific funding needs and deliver a unified request to our government. Although we used to be nearly unique in carrying out this exercise, other disciplines and even sub-disciplines within our field now carry out more or less the same process. These efforts can only be effective when they represent true consensus. The reports can only represent consensus when everyone participates. Increased participation is a goal of this Decadal Survey and chair Roger Blandford is truly committed to increasing the participation in the process.

The AAS will be supporting the Decadal Survey in several ways. First, our public policy fellow, Marcos Huerta will be attending all public sessions this coming year and keeping the community posted through Informational Emails and his interesting Policy blog (available on the AAS public policy web pages). We will be hosting special activities at the Pasadena meeting coming up this June. The new convention space in Pasadena will be well suited to expanded town hall and other session types as the Decadal Survey committee requests. We will be capturing the sessions in Pasadena and making them available online in a cost effective audio/presentation slide format (along with the prize and invited talks, as we are doing for the Long Beach meeting). Finally, the Committee on Astronomy and Public Policy and the entire AAS Council will be discussing and following the progress of the survey and providing input on behalf of the Society at appropriate times. I am also helping President Huchra with some demographic data and analysis for a portion of the survey report.

The ongoing financial crisis is causing concern for us all. Organizations across the country, including non-profit societies like the AAS are taking actions to reduce expenses in anticipation of reduced revenues. The AAS Council meets at each June meeting to approve the budget for the coming fiscal year (e.g. the 2009 AAS budget was approved at the June 2008 AAS council meeting), but the budget is not a fixed document. As the year progresses we present Council and especially our Treasurer, Peter Stockman, with regular reports on the status of the Society's finances. We tighten our belts as we go along and take every possible measure to only spend when we must. Our largest financial risk continues to be our meetings, where substantial expenses must be offset through registration fees from attendees, who vary in number for opaque reasons from year to year.

I am taking a conservative approach, especially for 2010, and the proposed budget I will present to Council in June will reflect this. However, recession aside, the Society must continue to serve its members' needs. We will continue to publish our journals and to grow them technologically while preserving their content for the longer term. We will continue to organize the annual meetings of the Society to foster communication and collaboration in our field. We will continue to be active in public policy and education, while providing career advice and employment resources to astronomers at all career levels. Finally, we will follow the vision and leadership of the Council, who, as your elected leaders, are ultimately responsible for what the Society is, what it does and its long term financial stability.

The AAS has been here for more than 100 years. We will be here as long as the community we serve, astronomy and closely aligned fields, has a need for the services we provide. Those needs do not fluctuate with the stock market and our level of service will not fluctuate either. The AAS is your Society and I welcome your thoughts and input at any time on any topic. Enjoy the International Year of Astronomy and help celebrate it by reaching out to non-astronomers as you travel this year or in your daily research life. Let's all work together to bring a bit of the wonder of astronomy to our fellow citizens, which in the current financial climate, may be just what we all need to cheer us up a bit.

Hubble Status

Rodger Doxsey, STScI

With Space Shuttle Atlantis on the launch pad and ready to go, her cargo bay packed with new equipment destined for the Hubble Space Telescope, it was sharply disappointing to all to see Servicing Mission 4 (SM4) delayed. On 27 September there was a failure in the Science Instrument Command & Data Handling (SIC&DH) unit on Hubble. Among other things, this unit is responsible for gathering and routing scientific data from the Hubble instruments to the systems that transmit the data to the ground. The on-board backup SIC&DH was turned on in mid-October and is working properly. However, Hubble now has no further backup capability in this crucial area. One failure in the backup unit, or in associated data system modules, could result in no ability to retrieve science data from the telescope. This situation was apparent the weekend that the failure occurred, and by that Monday NASA Administrator Mike Griffin had made the decision that SM4 should be delayed until a replacement unit with full redundancy could be readied and included in the mission. NASA recently announced a target launch date of 12 May 2009 for SM4.

This unfortunate turn of events has everyone in the HST program scrambling. At the STScI we have been focusing on keeping Hubble busy with a full schedule of observations during the additional seven months before SM4. By October, we had nearly exhausted our pool of WFPC2 and NICMOS observations from Cycle 16, anticipating the start of Cycle 17 and the use of the new Wide Field Camera 3 (WFC3) and Cosmic Origins Spectrograph (COS), and repaired ACS and STIS instruments. The situation was further complicated by an unrelated problem with the NICMOS Cooling System (NCS), which may have failed. This system was installed during SM3B in 2002 and ran continuously, cooling the detectors in the NICMOS to their operational temperature. Barring a future "Eureka!" moment, a final attempt to get the NCS running well enough to re-cool NICMOS will be made on Tuesday, December 16.

[NICMOS update added in press by kbm: NICMOS / NCS Safing Anomaly and Status December 23, 2008

On Friday 19 December 2008, the NICMOS Cooling System (NCS) safed once again, after having been cooling for about 4 days since its restart. The safing event this time was not due to the circulator/compressor loop which had been behaving nominally, but was instead caused by a lower speed limit violation of the Turbo Alternator which helps to maintain the proper flow rate of the Neon refrigerant through one of the three cooling loops. The cause of the lower than expected speed is presently unknown but is under investigation. Over the next week, systems engineers at GSFC will be collecting and analyzing telemetry from this event and past startups. The NCS Anomaly Review Board will then examine the information and make a recommendation on a forward plan of action some time in the first week of the new year. It is presently unclear when NICMOS will be available for science observations, but it is unlikely to be any earlier than mid-late February.]

The STScI has solicited Cycle 16 Supplemental Proposals to select observing programs to fill the bulk of the extra time prior to SM4. A total of 283 proposals were received by the deadline on 8 December. The 60 proposals using NICMOS will be held in reserve until we know whether the NCS will restart. The 223 proposals that do not use NICMOS request over 14,000 orbits of observing time. We expect to select programs that provide ~1200 orbits, so the over-subscription is quite high. A Telescope Allocation Committee (TAC) with 27 members and chaired by Rob Kennicutt has been constituted and the proposals have been sent to them for review. Given the time constraints and the season, the TAC will not meet physically, but will operate electronically and possibly via teleconference. Our goal is to notify selected PIs by 13 January 2009, go through the Phase II process in 2-3 weeks, and start these observations by mid-February at the latest. In the mean time, we have a pool of Astrometry, WFPC2, and ACS/SBC Cycle 16 GO, Snap, and DD programs that will be scheduled. Cycle 16 NICMOS programs will be included, if the NCS works adequately. We have identified two community service DD programs for use in January, especially if the NICMOS cannot be used or it takes a little longer to get the supplemental programs in place. Data from these community service programs will be immediately available to the community via the archive. One will provide WFPC2 F606W and F814W imaging of the central portion of the Lockman Hole (program 11967) and the other will obtain WFPC2 UV images of a subset of galaxies from the Spitzer Space Telescope SINGS Legacy program (program 11966).

Since the SIC&DH failure in September, the engineers, scientists, and managers at the HST Program at Goddard have been working hard to prepare the spare SIC&DH unit for flight on SM4. The hardware has been restored to flight configuration, inspected, and is being completely retested. Records of the assembly, test, and use of the unit since its delivery over 17 years ago have been reviewed to ensure that the equipment is flight worthy. Electromagnetic interference, vibration, and thermal vacuum testing of the spare unit will begin soon. Support equipment is being modified to include the SIC&DH in the cargo carried up to Hubble in Atlantis' cargo bay. The priorities, timelines and procedures for SM4 activities are being modified to include installation and check out of the spare SIC&DH during the first Extravehicular Activity (EVA) day of the mission. Although introduction of the SIC&DH replacement task makes an already full EVA timeline even more packed, in the "best case scenario" it can be included without the need to remove other high priority tasks from the plan. Of course this outcome cannot be guaranteed, but the Hubble Program and the Space Shuttle Program are working toward that objective. The astronauts have started training on the procedures for installing the SIC&DH, which fortunately was one of the telescope systems designed with servicing in mind.

We are all hopeful that a successful SM4 will have taken place by the time of the AAS meeting in June, and that early results from the most capable Hubble ever will be highlights of the meeting in January, 2010.

Get Involved in IYA

One of the most common—and most important!—questions that we receive about the International Year of Astronomy (IYA) is how people can learn more about and participate in IYA programs. We have created information sheets, with nine different flyers tailored to specific audiences, to answer this “How to Get Involved in IYA” question for:

- ☆ the general public
- ☆ amateur astronomers
- ☆ teachers
- ☆ home schoolers
- ☆ families
- ☆ professors and research scientists

- ☆ grad students
- ☆ planetaria, and large observatories and science centers
- ☆ small observatories and science centers

These information sheets may be viewed online, as well as downloaded for emailing and printing, at:

<http://astronomy2009.us/getinvolved/>

Please help us distribute these flyers, either by email or hardcopy, to spread the word about the wide range of opportunities for everyone to get involved in IYA!

Announcements

Arecibo Call for Proposals—

1 February 2009 is the next deadline for submitting proposals for Arecibo. Proposals submitted at this deadline are for using the 305 m telescope in the eight months beginning 1 June 2009 (i.e. valid for two trimesters).

We draw attention to the 1.1-10 GHz continuous frequency coverage on offer. This capacity was recently used to detect numerous molecular and hydrogen recombination lines from Arp 220 and other ULIRGS, using our WAPP spectrometers that offer a single pixel 640 MHz bandwidth facility (Salter et al AJ 136, 389). We anticipate a 1 GHz bandwidth capacity being available by June. In addition, we commissioned a cryogenic 327 MHz receiver in 2008.

Proposal submission details, and a web-based cover sheet, can be found at <http://www.naic.edu/~astro/proposals>. A guide for new-users to the telescope is at <http://www.naic.edu/~astro/guide>. Other user-related information is at <http://www.naic.edu/~astro/astronomy.htm>.

Radio sources with declinations between about -1 and +37.5 deg are visible from Arecibo, and can be tracked over the range of zenith angles between ~1.1 and 19.7 deg.

NSO Observing Proposal Deadline

The current deadline for submitting observing proposals to the National Solar Observatory is 15 February 2009 for the second quarter of 2009. Information is available from the NSO Telescope Allocation Committee at P.O. Box 62, Sunspot, NM 88349 for Sacramento Peak facilities (sp@nso.edu) or P.O. Box 26732, Tucson, AZ 85726 for Kitt Peak facilities (nsokp@nso.edu). Instructions may be found at <http://www.nso.edu/general/observe/>. A web-based observing-request form is at <http://www2.nso.edu/cgi-bin/nsoforms/obsreq/obsreq.cgi>. Users' Manuals are available at <http://nsosp.nso.edu/dst/> for the SP facilities and <http://nsokp.nso.edu/> for the KP facilities. An observing-run evaluation form can be obtained at ftp://ftp.nso.edu/observing_templates/evaluation.form.txt.

Proposers are reminded that each quarter is typically oversubscribed, and it is to the proposer's advantage to provide all information requested to the greatest possible extent no later than the official deadline. Observing time at National Observatories is provided as support to the astronomical community by the National Science Foundation.

Honored Elsewhere

Veilleux Wins 2008 Humboldt Research Award

Sylvain Veilleux (University of Maryland, College Park) received a Humboldt Research Award for Senior U.S. Scientists from the Alexander von Humboldt Foundation on 12 November 2008. This award is given to “outstanding scientists and scholars from all disciplines from abroad whose fundamental discoveries, new theories, or insights have had a significant impact on their own discipline and who are expected to continue producing cutting-edge achievements in the future.”

Veilleux, an optical/infrared astronomer whose research focuses on active and starburst galaxies, joined the Maryland faculty in 1995. He is known for his work on the spectral classification of emission-line galaxies, the origin and evolution of nuclear activity driven by supermassive black holes, and the nature of galaxy-scale winds and their impact on the extragalactic environment.

Veilleux will be using this award to undertake research on infrared-selected galaxies in collaboration with Prof. Reinhard Genzel and colleagues at the Max Planck Institute for Extraterrestrial Physics in Garching, Germany.

Einstein Prize Awarded to Hartle

The 2009 Einstein Prize was awarded to Jim Hartle (University of California, Santa Barbara). The citation reads “For a broad range of fundamental contributions to relativistic stars, quantum fields in curved spacetime, and especially quantum cosmology.”

James B. Hartle was educated at Gilman School, Princeton University (AB, 1960), and the California Institute of Technology where he completed a Ph.D. in 1964 with Murray Gell-Mann. He has held positions at the Institute for Advanced Study, Princeton University, and the University of Chicago. He is currently Research Professor and Professor of Physics Emeritus at the University of California, Santa Barbara and an external faculty member of the Santa Fe Institute. His scientific work is concerned with the application of Einstein’s relativistic theory of gravity—general relativity—to realistic astrophysical situations, especially cosmology. He has contributed usefully to the understanding of gravitational waves, relativistic stars, and black holes. He is currently interested in the quantum origin of the universe and the earliest moments of the big bang where the subjects of quantum mechanics, quantum gravity, and cosmology overlap. He has been an Alfred P. Sloan Fellow, a NATO Senior Science Fellow, and a John Simon Guggenheim Fellow. He is a fellow of the American Physical Society, a fellow of the American Academy of Arts and Sciences, a member of the US National Academy of Sciences, and a founder and past director of the Kavli Institute for Theoretical Physics.

Schechner Wins Hazen Prize

The Joseph H. Hazen Prize Committee of the History of Science Society has awarded the 2008 prize to Sara Schechner, David P. Wheatland Curator of the Collection of Historical Scientific Instruments in the Department of History of Science at Harvard University. Schechner’s educational activities have been extraordinarily broad, encompassing many of the categories suggested for the Hazen Prize. She is involved in museum work, the organization of educational programs, writing, innovation in instruction and pedagogical materials, and public outreach. The members of the Prize Committee were impressed with how Schechner “creates hands on experiences with technology from the past, thus giving material and tactile access to the history of science in this way,” how she has shown “great creativity and broad outreach in sharing the Collection for Historical Scientific Instruments,” and the amount of energy she has devoted “to a great range of successful educational activities in relatively short time frame.”

Member Deaths

The Society is saddened to learn of the deaths of the following members, former members and affiliate members:

Ian Bartky
Frank Edmondson
Steve Ostro
Ed Salpeter

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. Send to Jeff Linsky, Associate Editor, Letters, (jlinsky@jila.colorado.edu; 303-492-7838 phone; or 303-492-5235 fax) one week prior to the *AAS Newsletter* deadline. Letters may be edited for clarity/length (authors will be consulted) and will be published at the discretion of the Editors.

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AAS Member Anniversaries

We could not have done it without you! Thank you for your commitment to the Society. As we begin 2009 what better time to acknowledge those who have been members of the AAS for 25 years or more. If your name was excluded please contact Crystal Tinch (crystal@aas.org). Members are current as of 1 December 2008. Let us know if you think you re listed incorrectly.

25-34 years

Adler, David	Becker, Walter	Burns, Michael	Coon, James	Durisen, Richard	Fresneau, Alain	Gurman, Joseph
Ake, Thomas	Beckwith, Steven	Burrows, Adam	Cooper, R. Glenn	Duvall, Thomas	Friel, Eileen	Gustafson, Bo
Albert, C. Elise	Beers, Timothy	Burton, Wilgus	Corbally, Christopher	Dwek, Eli	Friend, David	Habbal, Shadia
Albrecht, Rudolf	Beichman, Charles	Bushouse, Howard	Corbin, Thomas	Eastwood, Kathy Degioia	Friesen, Larry	Haber, Deborah
Alcock, Charles	Bennett, Philip	Byrd, Gene	Cordes, James	Edberg, Stephen	Frisch, Priscilla	Hackwell, John
Alissandrakis, Constantine	Bhavsar, Suketu	Cabot, William	Cornett, Robert	Eder, Jo Ann	Fry, James	Hagen, John
Allen, Mark	Biermann, Peter	Cadmus, Robert	Coroniti, Ferdinand	Edwards, Suzan	Frye, Glenn	Haisch, Bernard
Allison, Michael	Bignami, Giovanni	Caillault, Jean-Pierre	Cowan, John	Eilek, Jean	Fukui, Yasuo	Hakkila, Jon
Ambruster, Carol	Bignell, Carl	Caldwell, Nelson	Crutcher, Richard	Einasto, Jaan	Fullerton, Alexander	Halbedel, Elaine
Anderson, Edwin	Binney, James	Calvet, Nuria	Cutri, Roc	Eisenhardt, Peter	Gallagher, John	Halliwell, Michael
Anderson, Kurt	Birkinshaw, Mark	Campbell, Murray	Czyzak, S. J.	Elitzur, Moshe	Garcia, Michael	Hammer, Reiner
Anthony-Twarog, Barbara	Bjorkman, Karen	Campins, Humberto	Da Costa, Gary	Elliot, James	Garwood, Robert	Hanes, David
Antiochos, Spiro	Blanford, George	Carlberg, Raymond	Dabrowski, Jan	Elliott, Denis	Gary, Dale	Hanisch, Robert
Applebaum, David	Bleiweiss, Max	Carlson, Eric	Dame, Thomas	Ellis, H. Benton	Gatewood, George	Hankins, Timothy
Apruzese, John	Blitz, Leo	Carpenter, Kenneth	Danford, Stephen	Elmegreen, Debra	Gatley, Ian	Hansen, J. Richard
Argon, Alice	Blizard, Jane	Carpenter, Roland	Daunt, Stephen	Elvis, Martin	Gautier, Thomas	Hansen, Stanley
Armstrong, John	Bogart, Richard	Carroll, Bradley	Davidson, J. P.	Emslie, A. Gordon	Geary, John	Hardee, Philip
Arnold, Clifford	Boice, Daniel	Carswell, Robert	Davies, Roger	England, Martin	Geballe, Thomas	Harding, Alice
Athanassoula, E.	Bonnet, Roger-Maurice	Cash, Webster	Davis, Donald	Erickson, Edwin	Gehrels, Neil	Harmon, John
Augensen, Harry	Bord, Donald	Cashdollar, Kenneth	Davis, Sumner	Erickson, Richard	Geller, Margaret	Harms, Richard
Azzopardi, Marc	Boroson, Todd	Castelaz, Michael	Dawson, Dennis	Esposito, Larry	Genzel, Reinhard	Harpaz, Amos
Baan, Willem	Borucki, William	Catacosinos, Paul	De Pater, Imke	Fabbiano, Giuseppina	Gergely, Tomas	Harris, Alan
Backman, Dana	Bosma, Albert	Caton, Daniel	De Robertis, Michael	Fabricant, Daniel	Ghigo, Frank	Harris, Hugh
Bahcall, Neta	Boss, Alan	Cecil, Gerald	Deguchi, Shuji	Fairman, Rita	Giampapa, Mark	Hartig, George
Bai, Taeil	Boughn, Stephen Paul	Centrella, Joan	Dejaiffe, Rene	Fanelli, Michael	Gierasch, Peter	Hartkopf, William
Bailey, Wayne	Bowell, Edward	Cernuschi, Felix	Deming, Drake	Fant, Ali	Gies, Douglas	Hathaway, David
Baker, Neal	Bower, Gary	Chan, Kwing	Dennis, Brian	Federman, Steven	Gilliland, Ronald	Hathaway, William
Baldwin, Jack	Bradley, Richard	Charles, Philip	Dere, Kenneth	Feigelson, Eric	Gioia, Isabella	Hawley, John
Baliunas, Sallie	Bradstreet, David	Chen, James	Dermott, Stanley	Felten, James	Giovanardi, Carlo	Hayes, Jeffrey
Bally, John	Branch, David	Chester, Thomas	Deupree, Robert	Ferland, Gary	Gisler, Galen	Haynes, Martha
Balonek, Thomas	Brasunas, John	Cheung, Cynthia	Dewdney, Peter	Fesen, Robert	Glackin, David	Heacox, William
Band, David	Braun, Douglas	Chiu, Hong-Yee	Dickey, John	Fich, Michel	Glassgold, Alfred	Heck, Andre
Bangert, John	Bregman, Joel	Choi, Kyu Hong	Dickman, Robert	Fienberg, Richard	Glueck, Vivian	Heckert, Paul
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Barbuy, Beatriz	Brodie, Jean	Christy, James	Djorgovski, Stanislav	Fischer, Jacqueline	Goebel, John	Heiligman, Gary
Barker, Timothy	Brown, Bryan	Ciardullo, Robin	Dobias, Jan	Fisher, Paul	Goguen, Jay	Held, Ronald
Barnard, John	Brown, David	Clarke, John	Doepke, Lawrence	Flasar, F. Michael	Goldberg, Bruce	Helfand, David
Barsony, Mary	Brown, Jeffery	Claussen, Mark	Dones, Henry	Fleck, Robert	Goldreich, Peter	Helou, George
Bartel, Norbert	Brown, Robert	Cliver, Edward	Doxsey, Rodger	Fleming, Thomas	Gordon, David	Henden, Arne
Barvainis, Richard	Brucato, Robert	Cochran, William	Dragon, John	Foltz, Craig	Gott, J. Richard	Henkel, Christian
Basri, Gibor	Brunish, Wendee	Coffey, Helen	Draine, Bruce	Fontaine, Gilles	Graber, James	Henry, Gregory
Basu, Dipak	Bruzual - A., Gustavo	Cohen, Martin	Drake, Stephen	Ford, Holland	Green, Daniel	Henry, Richard
Batuski, David	Bryan, James	Cohn, Haldan	Dressel, Linda	Forman, William	Gradie, Jonathan	Herbert, Floyd
Bauer, Wendy	Bryant, Light	Combi, Michael	Dressler, Alan	Fraknoi, Andrew	Graf, Werner	Herbst, Eric
Bautz, Mark	Buff, James	Cominsky, Lynn	Drummond, Jack	Fraquelli, Dorothy	Graham, William	Herter, Terry
Beall, James	Buffington, Andrew	Connolly, Leo	Duncan, Douglas	Freedman, Wendy	Green, Elizabeth	Hertz, Paul
Bechis, Kenneth	Buie, Marc	Conrath, Barney	Dundee, David	French, Howard	Greenhouse, Matthew	Hester, Jeff
Beck, Sara	Burke, Edward	Cook, John	Dunham, Edward	French, Linda	Greyber, Howard	Hildebrand, Roger
Becker, Robert	Burns, Jack	Cook, Kem	Dupree, Samuel	French, Richard	Griese, John	Hill, Frank
Becker, Stephen					Griffiths, Richard	Hill, John
						Himer, James

Hinkle, Kenneth	Kawaler, Steven	Lites, Bruce	Meegan, Charles	Owen, Frazer	Rosner, Robert	Sion, Edward
Hintzen, Paul	Kay, Laura	Littmann, Mark	Meier, David	Owocki, Stanley	Ross, Randy	Sitko, Michael
Hirshfeld, Alan	Kazanas, Demosthenes	Locke, Maureen	Melia, Fulvio	Pacharin-Tanakun, Pornchai	Rossano, George	Skelton, Dennis
Ho, Paul	Keel, William	Long, Knox	Melnick, Gary	Paciasas, William	Rothschild, Richard	Skillman, Evan
Hodge, Philip	Keeley, Douglas	Lonsdale, Carol	Melsheimer, Frank	Packer, Irene	Rots, Arnold	Smartt, Raymond
Hodson, Stephen	Keil, Stephen	Lord, Steven	Merilan, Michael	Parker, Gary	Roy, Jean-Rene	Smethells, William
Hoeksema, Jon	Kelley, Richard	Loren, Robert	Merrill, K. Michael	Patterson, Alan	Rudnick, Lawrence	Smith, Dale
Hoff, Darrel	Kelton, Phillip	Loughlin, Jane	Merritt, David	Patterson, Robert	Rudy, Richard	Smith, David
Hoffer, James	Kemic, Stephen	Low, Boon	Mewaldt, Richard	Pauls, Thomas	Rumpl, William	Smith, Horace
Hoffman, G. Lyle	Kemper, Edward	Lubow, Stephen	Meyer, David	Pearson, Timothy	Rumstay, Kenneth	Smith, Paul
Holberg, Jay	Kennicutt, Robert	Luck, R. Earle	Mielbrecht, R.	Pedely, Jeffrey	Russell, Jane	Smith, Peter
Hollabaugh, Mark	Kent, Stephen	Lucke, Robert	Miller, Glenn	Pence, William	Russell, Ray	Smith, Verne
Hollenbach, David	Kenyon, Scott	Lugger, Phyllis	Mink, Douglas	Percival, Jeffrey	Ryan, James	Smith, William
Holman, Gordon	Kielkopf, John	Lumme, Kari	Misconi, Nebil	Perley, R. A.	Ryter, Charles	Snedden, Christopher
Hough, David	Kim, Yong Hak	Lynch, John	Modali, Sarma	Peter, William	Saar, Steven	Snell, Ronald
Howard, Sethanne	Kimble, Randy	Ma, Chopo	Molnar, Lawrence	Peterson, Bradley	Safko, John	Snider, Joseph
Howell, Steve	Kingham, Kerry	Macalpine, Gordon	Monet, Alice	Peterson, Ruth	Saio, Hideyuki	Snodgrass, Herschel
Howland, Robert	Kipp, Steven	Maccacaro, Tommaso	Moody, Elizabeth	Petre, Robert	Sakai, Jun-Ichi	Snowden, Steven
Hrivnak, Bruce	Klein, Richard	Maccallum, Crawford	Moore, Marla	Piccirillo, John	Sakimoto, Philip	Socket, Dennis
Hu, Esther	Klimchuk, James	Macgregor, Keith	Morabito, David	Pickles, Andrew	Sakurai, Takashi	Soderblom, David
Huenemoerder, David	Knapp, Gillian	Mackenty, John	Morgan, John	Pier, Jeffrey	Salzer, John	Spangler, Steven
Huggins, Patrick	Knight, Frederick	Mackenty, John	Morgan, Thomas	Pierce, James	Sandell, Goran	Spangler, Steven
Hughes, John	Kohl, John	Macneil, Paul	Mouschovias, Telemachos	Pilcher, Carl	Sanders, David	Sparke, Linda
Hulse, Russell	Kohman, Truman	Madejski, Grzegorz	Mumma, Michael	Plambeck, Richard	Sarazin, Craig	Spear, Gordon
Huntley, James	Kolena, John	Magalhaes, Antonio	Mushotzky, Richard	Pollock, Joseph	Sargent, Anneila	Spencer, John
Hurford, Gordon	Konigl, Arieh	Magnani, Loris	Mutel, Robert	Pomphrey, Richard	Sato, Makiko	St. Cyr, Orville
Hurlburt, Neal	Kostiuk, Theodor	Malina, Roger	Mutschleener, Joseph	Preston, Robert	Saulson, Peter	Stachnik, Robert
Hut, Piet	Kowalski, Michael	Malkan, Matthew	Myers, Philip	Priedhorsky, William	Saumon, Didier	Stahler, Steven
Icke, Vincent	Krisciunas, Kevin	Maloney, Frank	Nakano, George	Prince, Thomas	Scalo, John	Stark, Antony
Illingworth, Garth	Kriss, Gerard	Malumuth, Eliot	Nations, Harold	Pritchett, Christopher	Schatz, Dennis	Stauffer, John
Imamura, James	Krolik, Julian	Mansfield, Roger	Naylor, David	Probst, Ronald	Schechter, Paul	Stebbins, Robin
Impey, Chris	Kuan, Pui	Marcaide, Juan-Maria	Neff, James	Pryor, Carlton	Scherrer, Philip	Steffes, Paul
Iwasaki, Kyosuke	Kulkarni, Shrinivas	Marcy, Geoffrey	Neff, Susan	Pudritz, Ralph	Schloerf, F. Peter	Steigman, Gary
Jackson, Peter	Kwiter, Karen	Mariska, John	Neidig, Donald	Puetter, Richard	Schmelz, Joan	Steiman-Cameron, Thomas
Jaco, Clint	Kylafis, Nikolaos	Marsh, Kenneth	Nelson, Jerry	Radick, Richard	Schmidtke, Paul	Stencel, Robert
Jacoby, George	Lacasse, Marc	Marshall, Herman	Newell, Robert	Ratner, Michael	Schmitz, Marion	Stephens, Sally
Jaffe, Daniel	Lacy, John	Martins, Donald	Newman, William	Raymond, John	Schneeberger, Timothy	Stern, Robert
Jakobsen, Anne	Laird, John	Martonchik, John	Nicholson, Philip	Reasenberg, Robert	Schneider, Donald	Stevenson, David
Jakobsen, Peter	Lamb, Richard	Matese, John	Nolan, Patrick	Reid, Mark	Schombert, James	Stiennon, Michael
Jenkner, Helmut	Lange, Gunther	Mather, John	Noland, Michael	Retterer, John	Schreur, Barbara	Stier, Mark
Jennings, Mark	Langer, Steven	Mathieu, Robert	Noll, Keith	Reynolds, Stephen	Schroeder, Daniel	Stiff, Thomas
Jensen, Eric	Langer, William	Matson, Dennis	Nolt, Ira	Rhodes, Edward	Schuster, William	Stocke, John
Jewell, Philip	Larosa, Theodore	Matthews, Jaymie	Nomoto, Ken'ichi	Richards, Mercedes	Schwartz, Richard	Stockman, Hervey
Jewitt, David	Larson, Stephen	Matthews, Larryl	Nordsieck, Kenneth	Ricker, George	Schweighauser, Charles	Stoeger, William
Johnson, C. B.	Lattimer, James	Mauche, Christopher	Norman, Colin	Robb, Russell	Seab, C. Gregory	Stone, Remington
Jones, Burton	Lauer, Tod	Max, Claire	Nousek, John	Roberge, Wayne	Sebok, William	Stoner, Jeff
Jones, Christine	Lawrence, Charles	Mazurek, Thaddeus	Novacek, Greg	Roberts, David	Seitzer, Patrick	Stoner, Ronald
Jones, Terry	Lea, Susan	Mccall, Marshall	Nuth, Joseph	Roberts, George	Sellgren, Kristen	Streeter, Jean
Junkkarinen, Vesa	Lee, Martin	Mcconnell, Mark	O'brien, George	Roberts, Wm.	Shao, Michael	Stringfellow, Guy
Jurgens, Raymond	Lester, Daniel	Mccutcheon, Robert	O'dell, Stephen	Robinson, Edward	Shapiro, Paul	Strong, Keith
Kaitchuck, Ronald	Lesyna, Larry	McDavid, David	Odenwald, Sten	Robinson, Jack	Shara, Michael	Struble, Mitchell
Kalata, Kenneth	Leventhal, Marvin	Mcewen, Alfred	Oka, Takeshi	Rodriguez, Luis	Shaya, Edward	Suess, Steven
Kalinowski, J.	Levine, Alan	Mcgimsey, Ben	Oliversen, Nancy	Roellig, Thomas	Sherrill, Thomas	Summers, Carolyn
Kallman, Timothy	Levison, Harold	Mcnamara, Bernard	Oliversen, Ronald	Romanishin, William	Shields, Gregory	Suntzeff, Nicholas
Kaluzienski, Louis	Levy, David	Medford, Ronald	Olson, Randy	Romney, Jonathan	Shull, Peter	Sutton, Edmund
Kamel, Osman	Liebovitch, Larry	Meech, Karen	Orton, Glenn	Rose, Louis	Silverberg, Robert	Svestka, Zdenek
Kaplan, George	Lin, Robert		Ostlie, Dale	Rosen, Warren	Simon, Theodore	Swank, Jean Hebb
Karpen, Judith	Linfield, Roger				Simpson, Richard	Sweigart, Allen
Katz, Andrew	Lissauer, Jack				Sinha, Rameshwar	Sweitzer, James
Kaufmann, Pierre						

Sykes, Mark	Thuan, Trinh	Unwin, Stephen	Veverka, Joseph	Wasatonic, Richard	Whitmore, Bradley	Woodward, Charles
Szkody, Paula	Timothy, J. Gethyn	Uomoto, Alan	Victoria, Ulises	Wasserman, Ira	Wiedenbeck, Mark	Wootten, Al
Taam, Ronald	Tohline, Joel	Uson, Juan	Vinti, John	Wasserman, Lawrence	Wiita, Paul	Worek, Thaddeus
Takahara, Fumio	Toller, Gary	Valdes, Francisco	Vishniac, Ethan	Wawak, Stephen	Wilbur, Jay	Worrall, Diana
Talent, David	Tonry, John	Valeriani, Gino	Vitello, Peter	Weaver, Thomas	Wilkerson, Susan	Wright, Edward
Tarbell, Theodore	Torrence, Geoffrey	Vallee, Jacques	Alfonso	Webbink, Ronald	Wilkes, Belinda	Yanagita, Shohei
Tarter, C. Bruce	Trauger, John	Valtonen, Mauri	Vogel, Stuart	Wegner, Gary	Wilking, Bruce	Yang, Chao
Taylor, David	Trinchieri, Ginevra	Van Ballegooijen, Adriaan	Vogt, Steven	Wehrle, Ann	Williams, Barbara	Young, Judith
Teegarden, Bonnard	Troland, Thomas	Van Der Hulst, J.	Vrba, Frederick	Weiler, Edward	Williams, Glen	Zapolsky, Harold
Teem, John	Tsuruta, Sachiko	Van Pelt, David	Vrtilek, Jan	Weinstein, Arthur	Willson, Robert	Zeilik, Michael
Telesco, Charles	Tueller, Jack	Van Riper, Kenneth	Vrtilek, Saeqa	Weisberg, Joel	Wilson, James	Zelle, Joseph
Tennyson, Peter	Turner, Jean	Van Steenberg, Michael	Wachmann, Arthur	Welch, Douglas	Wilson, Robert	Zinn, Robert
Teukolsky, Saul	Turner, Michael	Vanderspek, Roland	Wade, Richard	Wells, William	Winget, Donald	Ziurys, Lucy
Thompson, David	Twarog, Bruce	Varshni, Yatendra	Waldron, Wayne	Wende, Charles	Winkler, P. Frank	Zizka, Eugene
Thompson, Ian	Tyson, J. Anthony	Vestrand, W. Thomas	Walker, Constance	Wend, Robert	Wolfire, Mark	Zotov, Natalia
Thompson, Laird	Ubertini, Pietro		Wallace, William	Whipple, Arthur	Wolfson, C. Jacob	Zweibel, Ellen
Thompson, Thomas	Uchimoto, Eijiro		Walter, Frederick	White, Nicholas	Wolfson, Richard	Zych, Allen
	Ukita, Nobuharu		Ward, Martin		Wollman, Eric	

35-44 years

Aannestad, Per	Belton, Michael	Campbell, Donald	Cox, Donald	Epps, Harland	Glaspey, John	Hauser, Michael
Ables, Harold	Benedict, G. Fritz	Carbon, Duane	Coyne, G. V.	Erskine, Fred	Golden, Lawrence	Havlen, Robert
Adams, Ronald	Benner, D. Chris	Carleton, Nathaniel	Craft, Harold	Etzel, Paul	Goldsmith, Donald	Hawley, Steven
Adelman, Saul	Benson, Neil	Carney, Bruce	Craine, Eric	Evans, Charles	Golub, Leon	Hayes, Donald
A'hearn, Michael	Benz, Arnold	Caroff, Lawrence	Crampton, David	Evans, John	Gordon, Mark	Henry, J. Patrick
Ahluwalia, Harjit	Berg, Richard	Carruthers, George	Crane, Patrick	Evans, Nancy	Gorenstein, Paul	Herbst, William
Ahmad, Imad	Berge, Glenn	Carson, T.	Crane, Philippe	Evans, Neal	Goss, W. Miller	Hess, Fred
Aizenman, Morris	Bergstralh, Jay	Cassinelli, Joseph	Cruikshank, Dale	Faber, Sandra	Gottesman, Stephen	Hesser, James
Aksnes, Kaare	Berry, Charles	Castelli, John	Culver, Roger	Fekel, Francis	Gottlieb, Carl	Hilgeman, Theodore
Albert, Donald	Biegging, John	Catura, Richard	Dalgarno, A.	Feldman, Paul	Gow, Charles	Hill, Henry
Allen, Marc	Blaha, Milan	Cavaliere, Alfonso	Davis, John	Feldman, Paul	Graham, John	Hills, Jack
Aller, Hugh	Boeshaar, Patricia	Chaffee, Frederic	De Young, David	Fenkart, Rolf	Grandi, Steven	Hine, Alice
Aller, Margo	Bohlin, Ralph	Chaisson, Eric	Delsemme, Armand	Fink, Uwe	Green, Richard	Hobbs, L. M.
Altenhoff, Wilhelm	Bologna, Joseph	Chambliss, C.	Devorkin, David	Finzi, Arrigo	Greenberg, Richard	Hoffman, Alan
Altschuler, Martin	Bond, Howard	Chapman, Clark	Dickinson, Dale	Fishman, Gerald	Gregory, Philip	Hoffman, Jeffrey
Anderson, John	Bopp, Bernard	Chapman, Gary	Dinger, Ann	Fix, John	Gregory, Steve	Hoffmann, William
Anderson, Kinsey	Bowyer, C. Stuart	Chen, Peter	Dodd, Jack	Forman, Miriam	Grindlay, Jonathan	Hollis, Jan
Angel, J. Roger	Boyle, Robert	Chevalier, Roger	Dolan, Joseph	Foukal, Peter	Grindlay, Jonathan	Holt, Stephen
Argo, Harold	Bozyan, Elizabeth	Chubb, Talbot	Donivan, Frank	Franklin, Fred	Groom, Donald	Honeycutt, R.
Army, Thomas	Bradt, Hale Van Dorn	Chupp, Edward	Doschek, George	Freedman, Richard	Groth, Edward	Huchra, John
Arons, Jonathan	Brecher, Kenneth	Clark, Frank	Downes, Dennis	Freeman, Kenneth	Gudehus, Donald	Hudson, Hugh
Arpigny, Claude	Brooks, Neil	Clark, George	Downs, George	Friedlander, Michael	Guetter, Harry	Huebner, Walter
Audouze, Jean	Brosterhus, Elmar	Clark, T. Alan	Doyle, Robert	Frogel, Jay	Guinan, Edward	Hull, Anthony
Avrett, Eugene	Brown, G. Stanley	Clayton, Donald	Dravins, Dainis	Fujimoto, Mitsuaki	Gulkis, Samuel	Hunter, Christopher
Baars, Jacob	Brown, Larry	Clement, Maurice	Drilling, John	Fukuda, Ichiro	Hagyard, Mona	Hunter, James
Backer, Donald	Brown, Robert	Cochran, Vance	Dryer, Murray	Galatola, A.	Hammond, Gordon	Hunter, James
Baird, Scott	Brown, Robert	Cocke, William	Dudek, David	Gaposchkin, Peter	Hanner, Martha	Hutchings, John
Balick, Bruce	Brownlee, Donald	Coffeen, David	Dufour, Reginald	Garmany, Catharine	Hanson, Robert	Ianna, Philip
Ball, John	Bruenn, Stephen	Cohen, Judith	Dukes, Robert	Garmire, Gordon	Haramundanis, Kathryn	Iben, Icko
Bardeen, James	Bruhweiler, Frederick	Colvin, Jeff	Dulk, George	Garrett, Henry	Hardebeck, Harry	Ingersoll, Andrew
Barker, Edwin	Bruning, David	Conklin, Edward	Dunham, David	Garrison, Robert	Harnden, Frank	Innanen, Kimmo
Barnes, Aaron	Bunner, Alan	Conner, Jerry	Dunham, Joan	Geldzahler, Barry	Harper, Doyal	Israel, Martin
Barnes, Thomas	Burkhead, Martin	Conti, Peter	Dunn, Anne	Geyer, Edward	Harris, Allen	Itoh, Naoki
Basart, John	Burns, Joseph	Contopoulos, George	Dupree, Andrea	Gezari, Daniel	Harris, Gretchen	Jacoby, Margaret
Baym, Gordon	Burton, Butler	Corbett, Joseph	Durgin, Harold	Giacconi, Riccardo	Harris, William	Janes, Kenneth
Becklin, Eric	Butcher, Harvey	Corey, Brian	Durney, Bernard	Gilman, Peter	Hartman, Robert	Janiczek, P. M.
Beckman, John	Cahn, Julius	Corwin, Harold	Earl, James	Giovannelli, Riccardo	Hartmann, William	Janssen, Michael
Beebe, Herbert	Caldwell, John	Costero, Rafael	Elmegreen, Bruce		Harvey, Paul	Jenkins, Edward
Bell, Morley			Elvius, Aina			Johnson, Torrence
Belserene, Emilia						

Johnson, W. Neil	Littleton, John	Moore, Ronald	Poss, Howard	Savage, Blair	Spangenberg, William	Weekes, Trevor
Johnston, Kenneth	Litvak, Marvin	Moorhead, James	Potter, Andrew	Scarfe, Colin	Spinrad, H.	Weiler, Kurt
Jones, Harrison	Lo Presto, James	Moos, H. Warren	Prata, Stephen	Scargle, Jeffrey	Stein, Robert	Weis, Edward
Jones, Thomas	Lockman, Felix	Moran, James	Press, William	Scherb, Frank	Stetson, Peter	Weisskopf, Martin
Jordan, Stuart	Lockwood, G.	Morris, Mark	Preston, George	Schild, Rudolph	Stone, Edward	Weitenbeck, Anthony
Joseph, Robert	Lucke, Peter	Murray, Stephen	Price, P. BUford	Schlesinger, Barry	Straka, William	Wells, Donald
Joss, Paul	Luebke, William	Namba, O.	Primini, Francis	Schmidt, Edward	Strittmatter, Peter	Welther, Barbara
Joyce, Richard	Luhmann, Janet	Nelson, Robert	Proctor, Deanne	Schmitt, John	Strong, Ian	Werner, Michael
Kafatos, Menas	Lutz, Julie	Nesterczuk, George	Ptak, Roger	Schreier, Ethan	Stull, Mark	Wertz, James
Karp, Alan	Lynch, David	Newsom, Gerald	Racine, Rene	Schwartz, Daniel	Sturch, Conrad	West, Mary Lou
Kawabata, Kiyoshi	Lynds, Beverly	Nichols, Joy	Raimond, Ernst	Schwarz, Joseph	Sullivan, Woodruff	Wheaton, William
Kayser, Susan	Madore, Barry	Nickas, George	Rakos, Karl	Schweizer, Francois	Takebe, Hisao	Wheeler, J. Craig
Keay, Colin	Maffei, Paolo	Nicolas, Kenneth	Ramsey, Lawrence	Scott, Roger	Terrell, N. James	Whitaker, William
Kellogg, Edwin	Mahoney, William	Noerdlinger, Peter	Rankin, Joanna	Scoville, Nicholas	Thaddeus, Patrick	White, Nathaniel
Kennedy, H. D.	Manchester, Richard	Noyes, Robert	Rappaport, Saul	Seaquist, Ernest	Thomas, John	White, R. Stephen
Kennedy, James	Maran, Stephen	O'connell, Robert	Rather, John	Seeds, Michael	Thomas, Roger	White, William
Kennedy, John	Margon, Bruce	Oegerle, William	Reed, George	Seidelmann, P.	Thompson, Rodger	Wickes, William
Khare, Bishun	Margrave, Thomas	Oertel, Goetz	Reynolds, Ray	Serlemitsos, Peter	Thorne, Kip	Wicking, Kenneth
Kiewiet De Jonge, Joost	Marks, Dennis	Oliver, John	Reynolds, Ronald	Seward, Frederick	Thronson, Harley	Will, Clifford
Kirkpatrick, R. C.	Marlborough, J.	Ormes, Jonathan	Rich, John	Sgro, Anthony	Title, Alan	Williamson, Richard
Kirshner, Robert	Marschall, Laurence	Osmer, Patrick	Richards, David	Shaffer, David	Tolbert, Charles	Williams, Carol
Kliore, Arvydas	Martin, Robert	Ostriker, Jeremiah	Richer, Harvey	Shapiro, Stuart	Toomre, Juri	Williams, James
Knacke, Roger	Mathews, William	Ouellette, Gerald	Richstone, Douglas	Share, Gerald	Torres-Peimbert, Silvia	Williams, Robert
Kniffen, Donald	Mayfield, Earle	Pacini, Franco	Rickett, Barney	Shawl, Stephen	Trasco, John	Willner, Steven
Koch, David	Mcalister, Harold	Page, Arthur	Ridgway, Stephen	Sheeley, Neil	Travis, Larry	Wills, Derek
Kormendy, John	Mccammon, Dan	Pang, Kevin	Riegler, Guenter	Shelus, Peter	Trimble, Virginia	Wing, Robert
Kovach, William	Mccarthy, Donald	Pankonin, Vernon	Rieke, Marcia	Sher, David	Tucker, Wallace	Wingert, David
Kowal, Charles	Mccook, George	Pasachoff, Jay	Roger, R.	Shu, Frank	Tully, R. Brent	Witt, Adolf
Krienke, O. Karl	Mccray, Richard	Pataki, Louis	Rogers, Alan	Shuart, Ross	Twigg, Laurence	Wolf, George
Kronberg, Philipp	Mcgraw, John	Peale, Stanton	Rogers, Ernest	Shulman, Seth	Usher, Peter	Wolfe, Arthur
Krupp, E. C.	Mckee, Christopher	Peebles, P. J. E.	Rood, Robert	Silk, Joseph	Van Flandern, Tom	Wolff, Sidney
Kulsrud, Russell	Mcneil, Raymond	Pelling, Michael	Rosendhal, Jeffrey	Simoda, Mahiro	Vanden Bout, Paul	Wooden, William
Kurkowski, Jerome	Mechler, Gary	Penhallow, William	Rosenkilde, Carl	Simon, Michal	Vila, Samuel	Woodgate, Bruce
Kutner, Marc	Meszaros, Peter	Percy, John	Ross, Hazel	Simonson, S. Christian	Woolf, Neville	Wosley, Stan
Kutter, G. Siegfried	Metzger, A. E.	Peters, Geraldine	Rountree, Janet	Simpson, Erik	Wu, Chi-Chao	Wysocki, Mark
Lacy, Claud	Michaud, Georges	Peterson, Charles	Routledge, David	Simpson, Janet	Waddington, C.	Yahil, Amos
Lamb, Don	Michel, F. Curtis	Peterson, Cynthia	Rubin, Robert	Slabinski, Victor	Wagener, C.	Yeomans, Donald
Lamb, Frederick	Mickelson, Michael	Petro, Larry	Rubin, Vera	Slade, Martin	Walborn, Nolan	York, Donald
Larson, Richard	Mickey, D. L.	Petrosian, Vahe	Rust, Bert	Smith, Diane	Walker, Gordon	Young, Andrew
Latham, David	Miller, Hugh	Pettengill, Gordon	Rust, David	Smith, Edward	Walker, Robert	Yuan, Chi
Lebofsky, Larry	Millis, Robert	Pfleiderer, Jorg	Rybicki, George	Smith, Haywood	Wannier, Peter	Zappala, R. R.
Lecar, Myron	Milone, Eugene	Phillips, Mark	Rybski, Paul	Smith, Howard	Wardle, John	Zuckerman, Ben
Leckrone, David	Mintzer, David	Phillips, Perry	Rydgren, A.	Smith, Lindsey	Warren, Wayne	
Lee, Vincent	Mitalas, Romas	Phillips, Thomas	Sakurai, K.	Smith, Myron	Webb, David	
Legg, Thomas	Moffat, Anthony	Pierce, Sam	Sanders, Walter	Smithson, Robert	Webber, John	
Levine, J.	Moffett, Thomas	Pipher, Judith	Sanders, Wilton	Snowden, Michael	Webster, William	
Light, Edward	Molnar, M. R.	Poland, Arthur	Sandford, Maxwell	Snyder, Lewis	Weedman, Daniel	
Lillie, Charles		Polidan, Ronald	Sandlin, Glenn	Soberman, Robert		
Linsky, Jeffrey		Pomerantz, Martin	Saslaw, William	Soifer, B. Thomas		

45-54 years

Acton, Loren	Bartko, Frank	Bookmyer, Beverly	Burbidge, Geoffrey	Clark, Barry	Cudaback, David	Elste, Guenther
Altrock, Richard	Baschek, Bodo	Boyce, Peter	Burke, J. Anthony	Cohen, Howard	Dahn, Conard	Epstein, Eugene
Anders, Edward	Bash, Frank	Bracher, Katherine	Carr, Thomas	Cohen, Marshall	Dent, W. A.	Erickson, William
Anderson, Howard	Batten, Alan	Breckinridge, James	Castor, John	Colgate, Stirling	Dickel, Helene	Eryurt-Ezer, Dilhan
Angione, Ronald	Beckers, Jacques	Bremenkamp, Victor	Cayrel, Roger	Collins, George	Dickel, John	Fazio, Giovanni
Bahng, John	Bless, R. C.	Brotan, N. W.	Chamberlain, Joseph	Cowley, Anne	Dietz, Richard	Fernie, J. D.
Barnhart, Philip	Bodenheimer, Peter		Chou, Kyong	Cowley, Charles	Doherty, Lowell	Fiala, Alan
Barrow, Colin				Crawford, David	Edwards, Terry	

Field, George	Hogg, David	Kumar, Shiv	Morton, Donald	Raff, Malcolm	Sparks, Warren	Wagner, William
Fisher, Philip	Holmberg, E.	Kundu, Mukul	Mulholland, John-Derral	Rea, Donald	Starrfield, Sumner	Walker, Russell
Fitch, W. S.	Howard, William	Landolt, Arlo	Mumford, George	Rickard, James	Stecher, Theodore	Wallerstein, George
Fliegel, Henry	Hunten, Donald	Larsson-Leander, Gunnar	Neff, John	Roberts, Morton	Stone, Sidney	Wampler, E. Joseph
Franz, Otto	Irvine, William	Liebenberg, Donald	Neupert, Werner	Rodman, James	Sturrock, Peter	Wehinger, Peter
Fredrick, Laurence	Jackson, E. S.	Lindenblad, Irving	Nishida, Minoru	Roemer, Elizabeth	Swenson, George	Welch, William
Gaizauskas, V.	Jefferies, John	Livingston, W. C.	Nishimura, Shiro	Rose, William	Tandberg-Hanssen, E.	Wentzel, Donat
Galt, John	Johnson, H. R.	Low, Frank	Olsen, Kenneth	Saito, Sumisaburo	Terzian, Yervant	West, Frederick
Gauss, F. Stephen	Jones, Charles	Macconnell, Darrell	Olson, Edward	Sandmann, William	Teske, Richard	Westerhout, Gart
Gaustad, John	Jugaku, Jun	Malville, J. McKim	Parker, James	Sargent, Wallace	Thomas, Norman	Westerlund, Bengt
Gibson, James	Kaftan-Kassim, May	Marsden, Brian	Parker, Robert	Scheer, Donald	Thompson, A. Richard	Westerman, Cynthia
Gould, Robert	Kaler, James	Martin, William	Parsons, Sidney	Schmidt, Maarten	Toomre, Alar	Weymann, Ray
Gray, D. F.	Karshner, Gary	Mathis, John	Parthasarathy, R.	Schorn, Ronald	Trafton, Laurence	Williams, John
Haddock, Fred	Kaufman, Michele	Maxwell, Alan	Partridge, R. Bruce	Seielstad, George	Truran, James	Wilson, Robert
Halliday, Ian	Kinman, T. D.	Mcilwain, Carl	Pascu, Dan	Shane, William	Tull, Robert	Wilson, Robert
Hapke, Bruce	Kissell, Kenneth	Mcintosh, Patrick	Peery, Benjamin	Shao, Cheng-Yuan	Turner, Kenneth	Wolff, Charles
Hartwick, F.	Klemola, A.	Meisel, David	Peimbert, Manuel	Shawcross, William	Ulmschneider, Peter	Wolstencroft, Ramon
Harvey, J. W.	Klock, Benny	Menon, T. K.	Peters, James	Sherman, Nevin	Van Altena, Wm.	Wooley, Jon
Harwit, Martin	Kovalevsky, Jean	Mertz, Lawrence	Peterson, Laurence	Shorthill, Richard	Van Den Bergh, Sidney	Zirker, Jack
Heeschen, David	Kozai, Yoshihide	Mihalas, Dimitri	Pierce, David	Simkin, Susan	Vandervoort, Peter	
Heiles, Carl	Kraft, Robert	Miller, Richard	Poveda, Arcadio	Simon, George	Vandervort, Gordon	
Henriksen, S. W.	Krause, Helmut	Moore, Elliott	Price, Stephan	Sofia, Sabatino		
Henry, Richard	Kuhi, Leonard		Protheroe, William	Solomon, L. H.		
Henze, William				Solomonides, Panos		

55-59 years

Arp, Halton	Burbidge, E.	Gingerich, Owen	Mccarthy, Martin	Seligman, David
Athay, R. Grant	Cameron, Winifred	Gleim, James	Motz, Lloyd	Skumanich, Andrew
Baum, William	Cox, Arthur	Johnson, Fred	Parker, Eugene	Smith, Bradford
Bell, Barbara	Davis, Robert	Johnson, Hugh	Pecker, Jean-Claude	Tifft, William
Blanco, Victor	Dennison, Edwin	Liller, William	Sawyer, Constance	Wade, Campbell
Bogges, A.	Fujita, Yoshio	Linnell, Albert	Schatzman, Evry	Wehlau, Amelia
Bogges, Nancy	Garstang, R. H.	Locke, J. L.	Schiffmacher, Edward	Weston, Edwin
Brownlee, Robert	Ghaffari, A.	Malitson, Harriet	Schmidt, Gary	Yoss, Kenneth

60-64 years

Bidelman, William	Horak, Henry	Mathews, Robert	Roman, Nancy
Duncombe, R.	Jaffe, M. W.	Mcnamara, D.	Savedoff, Malcolm
Herbig, George	Lippincott, Sarah	Meinel, Aden	Wilson, Albert

65+ years

Steel Lillibridge, Helen

News from NSF Division of Astronomical Sciences

Eileen D. Friel, Executive Officer, Division of Astronomical Sciences, efriel@nsf.gov

New Proposal requirements for Postdoctoral Mentoring

We remind all PI's that beginning 5 January 2009, NSF requires that all proposals that request funding to support postdoctoral researchers include a separate section describing the mentoring activities that will be provided. This new requirement is a result of the America COMPETES ACT, signed into law in August 2007. The Grant Proposal Guide has been revised to reflect this requirement:

“Each proposal that requests funding to support postdoctoral researchers must include, as a separate section within the 15-page project description, a description of the mentoring activities that will be provided for such individuals. ... The proposed mentoring activities will be evaluated as part of the merit review process under the Foundation's broader impacts merit review criterion. **Proposals that do not include a separate section on mentoring activities within the Project Description will be returned without review.**”

The Grant Proposal Guide can be found as part of the Proposal and Award Policies and Procedures Guide at: http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf091.

OISE Program Summary

NSF's Office of International Science and Engineering (OISE) supports innovative awards and supplements that promote research through new international collaboration and that develop the next generation of globally engaged scientists and engineers. OISE funds international research and education activities in all NSF-supported disciplines involving any region of the world.

OISE has a number of solicitations for programs fostering international collaboration, including those for undergraduate and graduate students (International Research Experiences for Students, Doctoral Dissertation Enhancement Projects, East Asia and Pacific Summer Institutes), postdoctoral scholars (International Research Fellowships Program), and international planning visits and workshops. The Partnerships for International Research and Education program (PIRE – NSF 09-505) fosters the development of innovative models for long-term, international research and education partnerships by funding institution-to-institution, cutting edge research conducted by US universities in collaboration with foreign counterparts.

Investigators may also include international components in proposals submitted to any relevant NSF program, or request supplemental funding for projects already supported by NSF. Investigators are encouraged to consult early in the application process with both the disciplinary program manager and OISE program manager for that country. OISE works with all NSF areas to co-fund new awards and supplements that meet these criteria:

- **True intellectual collaboration with foreign research partner** (Foreign partner's 2-pg biosketch & communication outlining project role must be included. If foreign institution will provide resources, also include an endorsement letter from the foreign institution.)
- **New** international collaborations, as opposed to well-established ones;
- Clear benefit to U.S. science/engineering community from **expertise, facilities, or resources** of the foreign collaborator; and
- Active research engagement of U.S. **students and junior researchers** at the foreign site.

Please see the OISE web site, at <http://www.nsf.gov/oise>, for a description of all programs and contact information by region and program.

Upcoming Deadlines for funding:

Grant Opportunities for Academic Liaison with Industry (GOALI) (NSF 09-516). GOALI promotes university-industry partnerships by making project funds or fellowships/traineeships available to support industry-university linkages. Special interest is focused on affording the opportunity for:

- Faculty, postdoctoral fellows, and students to conduct research and gain experience in an industrial setting;
- Industrial scientists and engineers to bring industry's perspective and integrative skills to academe; and
- Interdisciplinary university-industry teams to conduct research projects.

GOALI will target high-risk/high-gain research with a focus on fundamental research, new approaches to solving generic problems, development of innovative collaborative industry-university educational programs, and direct transfer of new knowledge between academe and industry. GOALI proposals are accepted at any time. See the program announcement at <http://nsf.gov/pubs/2009/nsf09516/nsf09516.htm> for more information.

AST seeking reviewers

Learn about the review process at NSF and gain insights into what it takes to write a successful proposal by participating in the proposal review process. Reviewers perform an essential service for NSF and the community. They also see a wide range of proposals, both successful and unsuccessful, read about current science, exchange ideas with colleagues on the panel and at NSF, and learn about the process of panel review. The experience is one of the best ways to prepare for writing your own proposal.

If you would be interested in serving on a review panel at NSF, please let us know, by contacting a program officer (Nigel Sharp (nsharp@nsf.gov), Linda Sparke (lsparke@nsf.gov), Brian Patten (bpatten@nsf.gov), Don Terndrup (dterndru@nsf.gov) or Eileen Friel (efriel@nsf.gov)).

Committee on Employment

Choosing a Graduate School: Some Things to Think About

Author: AAS Employment Committee

In a career as an astronomer, few decisions matter more than the choice of graduate school. Graduate school is the place where you turn into a full-fledged and fully qualified member of the profession. A great experience can set you on your way with a whole lot of momentum and enthusiasm. For many years after you get your degree, your graduate advisor will be your strongest supporter. And, more than likely, you will spend at least half a decade in the locale you choose.

Researching Institutions

Creating a list of all of the graduate programs in astronomy is relatively straightforward, although some schools that offer research opportunities in astronomy can be harder to identify because they include their astronomy program inside a physics department. The American Institute of Physics maintains a comprehensive directory of graduate programs in physics and astronomy which can be accessed from their website (<http://www.aip.org/>) or from the convenient web page, <http://www.gradschoolshopper.com/>.

Sorting through this enormous list of grad programs can be daunting, however. Our best advice is to talk with professors and postdocs at your institution, to learn about the schools they recommend for you in your subfield(s) of interest. If you do not know any professional astronomers, ask the members of the physics faculty at your institution for any contacts in astronomy that they may have. Or you can contact astronomy professors at one of the schools you are considering and ask for advice given your particular interests and background. In addition, one potentially effective method to identify appropriate schools is to work backwards — identify researchers who have jobs like the one you want and find out where their degrees came from.

Department websites and personal contacts are key sources of information. You can also consult ranked lists of departments and research programs from places like the National Research Council (NRC) and the *US News & World Report*. These reports order departments based on various criteria such as scholarly achievement of the faculty and the availability of resources. General rankings are always controversial among astronomers, however, because people legitimately disagree about the relative importance of various factors. Use of citation indices and other statistical measures of the research impact of a department may also be informative (e.g. <http://arXiv.org/abs/0811.0311>), but citations are usually 5-10 years out of date and the status of up-and-coming departments changes more rapidly. Also, the best researchers do not always make the best advisors. In the end, the most relevant ranking is that which you derive on your own, based

on how well each program matches with your interests, your needs, and your abilities.

You will need a solid list of perhaps 5-10 graduate schools to which you will apply. Each school should to be a place you would seriously consider going, with at least one or two potential advisors. It is important to include a range of programs, including 1-2 “safety” schools that you will definitely get into, several schools that you are very interested in attending, and a “stretch” school or two. Personal contacts may help you identify which schools belong in which categories.

Making the Choice

After you find out whether you are admitted to the schools on your list, you will likely be faced with a difficult choice. There are many aspects of each program to consider; a list of good questions to ask graduate programs and current graduate students is located at http://www.astro.indiana.edu/grad_questions.shtml. Your decision making process should include consideration of research opportunities, academic requirements, and personal issues, such as location, funding, and quality of life. Visiting schools you are serious about is also extremely important, so that you can get a real feel for what they are like; most schools will pay for at least part of a trip.

During your visit, you should talk with several faculty members, some of whom you might envision working with. Ultimately, finding an advisor with whom you can work productively is key to success during and after graduate school. It is important to identify more than one person you can work with at your school of choice, however, as personality conflicts and funding problems can occur. You should also talk with the current students to hear their perspectives on the department and its environs. Both the intensive experience within your graduate program and the broader setting outside of your department will play big roles in your life.

In the end, there is no one school that is perfect for everyone. The ultimate goal is to find a place where you, personally, have great opportunities.

Committee on the Status of Women in Astronomy

Geoffrey Clayton, CSWA Chair, Louisiana State University, gclayton@fenway.phys.lsu.edu

The 3rd International Women in Physics Conference

AAS members Hannah Jang-Condell (University of Maryland/NASA-GSFC), who contributed this article, Emily Freeland (University of Wisconsin), Nicholas Murphy (University of Wisconsin) and Yilen Gómez Maqueo Chew (Vanderbilt University/Villanova) recently attended the Third International Conference on Women in Physics (ICWIP2008) in Seoul, South Korea. They were among over 330 scientists from nearly 70 countries from all corners of the world. Delegates came from African, Asian, European, Latin American, North American, and island nations. Jang-Condell, Freeland, and Murphy were members of the US delegation while Gómez Maqueo Chew represented Mexico. The meeting, held 7 to 10 October, was dedicated to celebrating the physics achievements of women throughout the world, networking toward new international collaborations, gaining skills for career success, and aiding the formation of active regional working groups to advance women in physics. Each country presented information about its statistics and its activities to increase women's participation.

"I enjoyed this meeting and the chance I had to compare my experiences in astronomy with those of women in physics," said Freeland. "I had extremely interesting conversations with women from Brazil, Canada, and South Africa, as well as my fellow US delegation members. Overall, the meeting helped reinforce, in my mind, the importance of role models, mentoring, and flexible family leave policies for both parents, as necessary conditions for increasing the number of women scientists." Jang-Condell said, "this meeting was a terrific opportunity to share stories with women in physics from around the world. Seeing so many successful women physicists from around the globe and hearing their stories was very empowering. One of the successes of this meeting was bringing us all together to share ideas and resources to help women in physics around the world." Dr. Youngah Park, a physicist who chairs the conference organizing committee, was recently elected to the Korean National Assembly from her district. She told the assembled participants, "I believe the positive effect of ICWIP2008 will go beyond the physics community and will have a strong effect on women leaders in all fields of science and technology."

Worldwide fewer than 15% of physicists are women. More than 80% of the conference attendees were women. It was clear that the scarcity of women in physics, especially in leadership positions, is a problem for many countries. They cannot benefit fully from women's ideas and approaches to improve their economic competitiveness or solve difficult problems, such as energy, health, and global sustainability. Women, men, institutions, and governments need to work together to encourage, educate, recruit, retain, advance, and promote more girls and women in physics and other science and technology professions. To that end, the conference participants unanimously approved a resolution presented at the 26th General Assembly International Union of Pure and Applied Physics (IUPAP) in Tsukuba Japan on 15 October 2008. The

First International Conference on Women in Physics was held in Paris in 2002. The Second conference was hosted by Rio de Janeiro in 2005. Since the first conference most countries have made some progress in attracting girls to physics, increasing the proportion of physics degrees to women, and promoting women physicists. However, the proportion of physicists who are women is well below 20% in nearly all countries—too few to have maximum benefit for society.

The representatives assembled in Seoul unanimously recommend the following actions to the IUPAP 26th General Assembly in Tsukuba, Japan:

- 1. Promote through the IUPAP Liaison Committees and physical societies the formation of additional regional or national working groups for women in physics.** These working groups would assist worldwide in the efforts to increase the participation of women, while being a resource to attract, retain, and advance women in physics.
- 2. Publicize site visits as an effective tool for improving the "climate" of physics workplaces, and encourage their implementation to help the workplaces become more supportive of both women and men.** For a site visit, an institution or physics department invites a team of physicists to assess the work environment for women and to give advice for improvements in gender equity.
- 3. Actively encourage organizers of IUPAP-sponsored conferences to provide, associated with the conference program (a) professional development workshops for attendees and (b) outreach activities aimed at the public and to engage both girls and boys from an early age in the excitement of physics.**
- 4. Charge the IUPAP Working Group on Women in Physics (a) to oversee the administration of a global survey of physicists in 2009, (b) to continue to assess the progress of women in physics, (c) to make useful resources available globally through the internet, (d) to organize the 4th International Conference on Women in Physics in 2011, and (e) to report at the 27th IUPAP General Assembly in 2011.**
- 5. Urge IUPAP Liaison Committees and physical societies to take the leadership in their countries to encourage broad participation of their members in the global survey of physicists.**

Update on the Longitudinal Study of Astronomy Graduate Students

Contributed by Rachel Ivie and Susan White (Statistical Research Center, American Institute of Physics (AIP))

Data collection was recently completed for the first phase of the AAS/AIP longitudinal survey of astronomy graduate students. The project, which began in early 2007, was the result of recommendations made at the 2003 Women in Astronomy Conference. Eventually, the study will track astronomy graduate students over the course of several years.

The study has several purposes: to collect data on people who obtain graduate degrees in astronomy, to compare attrition rates for men and women, to collect data on people who leave the field of astronomy, and to collect data on astronomers who work outside the traditional employment sectors of academe and the observatories. During the first wave of data collection, we received more than 1100 responses that are useable for the analyses. Approximately 700 men and more than 400 women responded, representing 148 different graduate programs. Our preliminary analyses show that women and men who have been in the program more than three years are: less likely to agree that the environment in the department is welcoming, more likely to believe they lack ability, and are less confident in their careers. Final results will be available in the fall.

Women in Astronomy and Space Science: Meeting the Challenges in an Increasingly Diverse Scientific Work Place

Goddard Space Flight Center, together with the University of Maryland, are hosting a meeting on 21-23 October 2009, at the University of Maryland Conference Center on the topic of women in astronomy and space science with a focus on not only gender but generation and minorities. This meeting follows up on the “Women in Astronomy” meeting hosted by Space

Telescope Science Institute in 1992 and the Pasadena meeting hosted by Caltech in 2002. The topics include; 1) statistics on the state of the field, establishing trends over the last 15 years including the “longitudinal studies” of age vs. makeup of the field and identifying areas for celebration or for concern; 2) research on the impact of gender/generational/cultural differences in the science workforce, and 3) issues concerning the work environment and best practices for success of scientists in a diverse work force and 4) a special session on issues of minorities in science, and women in Earth Science. There is evidence for considerable success in increasing the percentage of women in the field of science and so we aim here to focus on issues concerning the success of those in the field. This meeting will highlight best practices to help the diverse scientific work force to succeed, and will address both the junior members of the field, as well as those who mentor and manage today’s diverse scientific workforce. Information on this meeting will be available at <http://wia2009.gsfc.nasa.gov>.

CSWA web site

We are continuing to upgrade the CSWA’s presence on the web. We plan more improvements in the coming. You can find us at, www.aas.org/cswa.

Washington News continued from back page

addressed in appropriations in the spring. The AAS will continue to advocate strongly that conference attendance is a vital component of scientific collaboration, and that the restriction on conference spending as written has numerous negative consequences for the scientific community.

Decadal Survey

Roger Blandford, of Stanford University, is the chair of Astro2010, the next Astronomy & Astrophysics decadal survey. The decadal surveys are produced by the National Research Council of the National Academies of Sciences. The committee will “survey the field of space- and ground-based astronomy and astrophysics, recommending priorities for the most important scientific and technical activities of the decade 2010-2020.” Rounding out the executive committee are, Martha Haynes (Vice Chair – Science Frontiers), Cornell University, John P. Huchra (Vice Chair – State of the Profession) Harvard University, Marcia Rieke (Vice Chair – Program Prioritization), University of Arizona and Lynne Hillenbrand (Executive Officer), California Institute of Technology.

A presentation by Dr. Blandford is scheduled for the AAS meeting in Long Beach, as is a town hall meeting to discuss the survey. Meetings of the committee in DC and around the country often contain open sessions. You can check the decadal survey web site for more information, as well as see the full membership. (<http://www7.nationalacademies.org/bpa/Astro2010.html>). Our Pasadena meeting in June will feature many decadal survey components. Plans include public meetings of the decadal committee and panels to be held in

the convention center along with the rest of the conference. In addition, audio from Dr. Blandford’s presentation to the astronomy department chairs meeting, sponsored by the AAS, is available on our public policy blog—blog.aas.org.

The Next Budget

One difficulty in assessing the budget atmosphere for the decadal committee is the uncertainty in the budget for 2010, and the yet unresolved problem of FY 2009. We are currently operating under a continuing resolution for FY 2009, continuing the funding levels of FY 2008, which has meant for a continuation of the flat science budgets of the past. It’s yet unclear how the FY 2009 budget will be handled by the new congress and new administration, but a large omnibus budget is certainly a strong possibility.

For the FY 2010 budget, which must be introduced by law in February of 2009, the release will only be a minimal budget outline, containing the top-line spending level for each agency and a few policy details for a few key priorities. The budget of a new president usually is a fulfillment of campaign pledges, so expect to see a budget that echoes what President-elect Obama promised in the campaign. However, the full policy budget will not be released until April of 2009; with full details from every government agency. How any large government spending package to stimulate the economy fits into the normal budget cycle remains to be seen—but it is likely that the new administration will seek to quickly pass an emergency economic rescue plan outside the normal budget / appropriations process.

Calendar

AAS & AAS Division Meetings

DDA Meeting

2-5 May 2009, Virginia Beach, VA
<http://dda.harvard.edu/>

SPD Meeting

14-18 June 2009, Boulder, CO
spd.aas.org/navbar_meetings.html

DPS Meeting

4-9 October 2009, Fajardo, Puerto Rico
<http://dps.aas.org/meetings/>

HEAD Meeting

1-4 March 2010, Big Island, HI
Contact: John Vallergera
(info@eurekasci.com)
www.confcon.com
www.hiltonwaikoloavillage.com/

Other Events

2009 IAU Symposia, Special Sessions and Joint Discussions

<http://www.astronomy2009.com.br/>

*Exoplanets and Disks: Their Formation and Diversity

9-12 March 2009, Kailua-Kona, HI
Contact: Dr. Tomonori Usuda
(usuda@naoj.org)
<http://www.naoj.org/SubaruConf09/>

Commemoration of Edwin E. Salpeter

14 March 2009, Cornell University
<http://astro.cornell.edu/events/salpetercommemoration/index.html>

Wild Stars in the Old West II: The 14th North American Workshop on Cataclysmic Variables and Related Objects

15-19 March 2009, Tucson, Arizona
Contact: Steve B. Howell
(howell@noao.edu)
www.noao.edu/meetings/wildstars2/

*Beyond JWST: The Next Steps in UV-Optical-NIR Space Astronomy

26-27 March 2009, Baltimore, MD
Contact: Marc Postman
(postman@stsci.edu)

*Recent Directions in Astrophysical Quantitative Spectroscopy and Radiation Hydrodynamics

30 March-3 April 2009, Boulder, CO
Contact: Keith MacGregor (kmac@hao.ucar.edu)
<http://www.hao.ucar.edu/events/dimitri-fest/>

Intermediate-Mass Black Holes: from First Light to Galactic Nuclei

1-3 April 2009, Irvine, CA
Contact: Aaron Barth
(imbh2009@gamblor.ps.uci.edu)
<http://www.physics.uci.edu/IMBH>

Missions for Exoplanets: 2010 - 2020

21-23 April 2009, Pasadena, CA
Contact: Michael Devirian
(devirian@jpl.nasa.gov)
exep.jpl.nasa.gov

The Search for Life in the Universe

4-7 May 2009, Baltimore, MD
Contact: Marc Postman
(postman@stsci.edu)
www.stsci.edu/institute/conference/spring2009

CASCA 2009: Annual Meeting of the Canadian Astronomical Society

26-29 May 2009, Toronto, Canada
Contact: Ray Jayawardhana
(rayjay@astro.utoronto.ca)
astro.utoronto.ca/casca09

*IAU Symposium No. 261 Relativity in Fundamental Astronomy

27 Apr-1 May 2009, Virginia Beach, VA
Contact: Sergei A. Klioner (sergei.klioner@tu-dresden.de)
www.aas.org/divisions/meetings/iau/

*Stellar Pulsation, Challenges for Theory and Observation

31 May-5 June, Santa Fe, NM
Contact: Joyce Guzik (joy@lanl.gov)
http://www.lanl.gov/conferences/stellar_pulsation

The Monster's Fiery Breath: Feedback in Galaxies, Groups, and Clusters

1-5 June 2009, Madison, WI
Contact: Sebastian Heinz
(feedback@astro.wisc.edu)
www.astro.wisc.edu/feedback

Unveiling the Mass: Extracting and Interpreting Galaxy Masses, and a Celebration of Vera Rubin's Career

15-19 June 2009, Kingston, Ontario
Contact: Stephane Courteau
(courteau@astro.queensu.ca)

*Second Exeter Astronomy Conference

21-26 June 2009
Contact: John A. Blackwell
(jblackwell@exeter.edu)
http://www.exeter.edu/Astronomy/4380_4634.aspx

*The Many Faces of Centaurus A

28 June - 3 July 2009, Sydney, Australia
Contact: Ilana Feain
(Ilana.Feain@csiro.au)
<http://www.atnf.csiro.au/research/cena/>

*Supernova Remnants and Pulsar Wind Nebulae in the Chandra Era

8-17 July, Cambridge, MA
Contact: Paul Green (snr09@cfa.harvard.edu)
<http://cxc.harvard.edu/cdo/snr09/>

*New or revised listings

Note: Listed are meetings or other events that have come to our attention. Due to space limitations, we publish notice of meetings 1) occurring in North, South and Central America; 2) meetings of the IAU; and 3) meetings as requested by AAS Members. Meeting publication may only be assured by emailing crystal@aas.org. Meetings that fall within 30 days of publication are not listed.

A comprehensive list of world-wide astronomy meetings is maintained by Liz Bryson, Librarian C-F-H Telescope in collaboration with the Canadian Astronomy Data Centre, Victoria, BC. The list may be accessed and meeting information entered at cadcwww.hia.nrc.ca/meetings.



American Astronomical Society
2000 Florida Avenue, NW, Suite 400
Washington, DC 20009-1231

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Newsletter 144 January/February 2009

Washington News

Marcos Huerta, John Bahcall Public Policy Fellow
huerta@as.org



Inauguration mania has gripped Washington. Voters in 2008 expanded the Democratic majorities in the House and Senate, and elected Barack Obama the 44th President of the United States. The mood on election night on the streets of Washington, which voted 93% for Barack Obama, was quite celebratory. Now, the city and its residents brace for 2-4 million people expected to visit for the inauguration on January 20th. Tickets to various inaugural balls are going for \$1000 or more. Metro is warning that the subway can not possibly accommodate the transportation needs of the crowds on Inauguration day. DC residents are posting ads on Craigslist, hoping to rent out their apartments or homes for hundreds if not thousands of dollars. Thankfully, the AAS Executive Office will be closed on January 20th. I certainly do not envy any commuters who are expected to show up at work that day.

The Transition

President-elect Obama has been rounding out his cabinet and other appointments, with the focus of the transition on the economy. Some form of economic stimulus, through large government spending is widely expected; focusing on infrastructure and energy. It is possible that science could be included in the stimulus—most likely for NSF, DOE Office of

Science, and NIST. These are the agencies that were included in the America COMPETES Act and the President's American Competitiveness Initiative.

Nobel-prize winning physicist Stephen Chu has been appointed to run the Department of Energy. While DOE is not a big player in astrophysics funding, the inclusion of a prominent scientist in Obama's cabinet suggests that the Obama administration will place a high value on science and scientific advice and expertise, especially when it comes to developing new and alternative energy sources. Meanwhile, the *Orlando Sentinel* reported tension between the NASA transition team and NASA administrator Mike Griffin. Griffin, however, disputed the *Sentinel's* characterization of the discussion, and says NASA is "fully cooperating" with the transition.

NASA Travel

I sent an Informational Email on the provision in the NASA Authorization Act concerning restrictions on NASA conference travel, which affects NASA civil servants at headquarters or at NASA centers. NASA has permitted FY 2008 money to be spent on travel through the end of 2008 calendar year. The AAS continues to work to address this issue on Capitol Hill.

From what I have learned, the language of the authorization act is not binding on the appropriations process, and that this issue can be *continued on page 14*