

Newsletter 12-27

Issue 12-27, November 18, 2012

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ESTABLISHMENT OF THE ACS-PHYS ASTROCHEMISTRY SUBDIVISION

We are pleased to announce that at the national ACS meeting in Philadelphia, the ACS-PHYS division established a new Astrochemistry Subdivision. Astrochemistry is the study of the abundances and chemical reactions of atoms, molecules, and ions and how they interact with radiation in both gas and condensed phases in Solar Systems and in the Interstellar Medium. The new Subdivision provides an interdisciplinary "home" for individuals interested in this growing research area. In addition, the Subdivision contributes to PHYS Division programs in areas of special interest to Astrochemists.

We would like to invite you and the undergraduate students, graduate students, and postdoctoral fellows in your group to join the ACS Astrochemistry Subdivision to connect to an exciting research endeavor and to further promote the Astrochemistry Subdivision at (international) meetings, in your university, and in your department. Additional information on joining the Subdivision may be found at:

<http://www.chem.hawaii.edu/Bil301/ACSAstrochemistry.html> [1]

<http://www.chem.hawaii.edu/Bil301/ACSAstrochemistryjoin.html> [2]

An inaugural Astrochemistry Symposium will be held at the Fall ACS National Meeting in Indianapolis, IN, September 8-12, 2013. Please also email us (ralfk@hawaii.edu [3], asuits@chem.wayne.edu [4], mhg@cchem.berkeley.edu [5]) suggestions for forthcoming ACS Astrochemistry Symposia and nominations for officers for the Astrochemistry subdivision.

We would also like to thank those of you who supported the establishment of the Astrochemistry Subdivision! We hope that the new Subdivision will effectively serve this thriving scientific community.

Best regards,

Ralf Kaiser (Chair), Arthur Suits (Chair-Elect), Martin Head-Gordon (Vice-Chair)

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CALLING ALL EARLY CAREER SCIENTISTS! FAMELAB : EXPLORING EARTH AND BEYOND

PASSIONATE ABOUT SCIENCE? LOVE TO COMMUNICATE?

You are wholeheartedly invited to participate in FameLab: Exploring Earth and Beyond!

FameLab is something like American Idol for scientists... Sponsored by NASA and National Geographic, it's a fun-filled day of competition, coaching, and camaraderie that's all about science communication!

At regional heats held across the US over the next 18 months—starting with the AGU Fall meeting in December—early career scientists from diverse scientific disciplines craft a 3-minute, powerpoint-free talk on their research or a related topic and deliver it in a supportive environment to judges who give only constructive feedback. No slides, no charts—just the power of words and any prop you can hold in your hands. The heart of the whole thing is a workshop conducted by communication professionals to help participants enrich their skills. So unlike American Idol, everyone wins!

Even if you're not planning to attend AGU, you're welcome to participate. This will be the one competition we plan to schedule in the Bay Area, but we'll also be announcing future competitions as they emerge in the coming months. Register or sign up for our mailing list to stay in the loop: <http://famelab-eeb.arc.nasa.gov/> [6]. Contact Daniella Scalice of the NASA Astrobiology Program if you have any questions at daniella.m.scalice@nasa.gov [7]

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JOB/POSITION OPPORTUNITIES

[Please visit the DPS web site at : <http://dps.aas.org/jobs> [8]
For more information and also consider posting a job by filling out the jobs submission form at:
<http://dps.aas.org/node/add/job> [9]

You can send any comments, questions, or suggestions to the DPS Jobs Czar at: dpsjobs@aas.org [10]

A) FACULTY AND POST-DOC POSITIONS AT THE ACADEMIA SINICA INSTITUTE ASTRONOMY AND ASTROPHYSICS

Faculty: http://jobregister.aas.org/job_view?jobID=43491 [11]

The Academia Sinica Institute of Astronomy and Astrophysics (ASIAA) has openings for faculty positions at the assistant or associate research fellow levels. Candidates who work in (a) optical/IR/radio astronomy, (b) theoretical/computational astrophysics, or (c) instrumentation (optical/IR/submillimeter) are especially encouraged to apply. Applicants should hold a PhD in astronomy, physics, or engineering, and preferably have prior postdoctoral experience.

ASIAA is an institute of Academia Sinica, the leading national research organization of Taiwan. The Institute has approximately 195 staff members (including 40 Faculty, 6 visiting scholars, 37 Postdocs, 35 Engineers/Technicians, and 33 Graduate Students). Research areas include the Solar and Exoplanetary Systems, Star and Planet Formation, Astrochemistry, Dust Grains, Stars and Compact Objects (evolved stars, white dwarfs, neutron stars, black holes), Galactic Dynamics, Active Galaxies, Galaxy Evolution, Cosmology, and Instrumentation Developments.

ASIAA offers excellent research facilities and an international environment, where English is the working language. The institute's strong instrumentation team is involved in a number of international projects in the optical/IR/radio. The Institute operates the SMA in collaboration with the SAO Taiwan is a member country of the ALMA project through collaborations with Japan and North America. The VLBI group is leading the effort for sub-mm VLBI. The AMiBA is in full scientific operation on Mauna Loa. The Institute is a partner in instrumental developments on the SUBARU Telescope (Hyper Suprime-Cam, the Prime Focus Spectrograph) and on the CFHT (SPIROU). The TAOS telescopes are in operation to detect small objects beyond Neptune, and TAOS-2 telescopes will be placed in Mexico. The Theory group has a dedicated computer cluster for CFD-MHD simulations. ASIAA plans to participate in the SPICA mission. More information on each topic or facility can be found in our Home Page.

We seek candidates who can lead the Institute's research programs, or initiate entirely new forefront programs. More information on target areas of recruitment can be found at <http://www.asiaa.sinica.edu.tw/jobopening/> [12]. Applicants are requested to submit (1) a curriculum vitae, (2) a summary of past research (or instrumentation experience), and (3) a plan for future research, through the on-line submission system. Applicants are also requested to arrange three letters of recommendation to be submitted through the online application system. Applications submitted by or

on 31 January 2013 will receive full consideration.

Included Benefits:

Medical insurance and travel allowance are provided. Please visit the Academia Sinica website for more information: <http://hro.sinica.edu.tw/indexen.html> [13] and <http://www.ifs.sinica.edu.tw/form.htm> [14]

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Post-docs: http://jobregister.aas.org/job_view?jobID=43111 [15]

The Academia Sinica Institute of Astronomy and Astrophysics (ASIAA) has openings for postdoctoral positions. Candidates with a PhD in any area of theoretical, observational, or instrumental astronomy are invited to apply.

ASIAA is an institute of Academia Sinica, the national research organization of Taiwan. The Institute has approximately 195 staff members (including 40 Faculty, 6 visiting scholars, 37 Postdocs, 35 Engineers/Technicians, and 33 Graduate Students). Areas of research include: Solar and Exoplanets Systems, Star and Planet Formation, Stellar Evolution, Compact Objects, Astrochemistry, Dust Grains, Galactic Dynamics, Active Galaxies, Galaxy Evolution, Clusters of Galaxies, Cosmology, and Instrumentation Developments.

ASIAA built two antennas (receivers included) for the SMA, and operates the SMA in collaboration with the SAO, and ALMA antennas in Taiwan. Taiwan is a member country in the ALMA project through collaborations with Japan and North America. We participate in instrumentation development on the CFHT and Subaru Telescope. We participate in the Hyper Suprime-Cam survey and the Prime Focus Spectrograph project of the Subaru Telescope. The TAOS project is in operation on Lulin Mountain in Taiwan to conduct a survey for small objects beyond Neptune. TAOS-2 will be deployed in Mexico.

AMiBA is in scientific operation on Mauna Loa for the study of clusters of galaxies through the Sunyaev-Zel'dovich effect. Theoretical and computational astrophysics is being pursued both in ASIAA/TIARA in Taipei and TIARA in Hsinchu in collaboration with National Tsing-Hua University. A new initiative (CHARMS) has been incubated by TIARA, aiming to develop numerical simulators to bridge SMA/ALMA observations and theories in fluid dynamics, chemistry, and radiative transfer. The VLBI group is leading the effort to redeploy the ALMA-NA prototype antenna to Greenland for submm VLBI and single dish THz science. Site testing for VLBI is ongoing, aiming to image the shadow of the supermassive black holes. We plan to participate in the SPICA mission. More information on each topic can be found in our Home page.

ASIAA offers excellent research facilities and an international environment, where English is the working language. We seek scientists who actively participate in the Institute's projects, in particular:

1. optical/IR or radio astronomers to pursue research topics related to Institute interests;
2. astronomers with radio interferometry experience to participate in ongoing tests, software-developments, or scientific observations with the SMA, AMiBA, ALMA, or VLBI;
3. solar system or planetary astronomers to participate in the study of small objects beyond Neptune through TAOS;
4. scientists or engineers to participate in instrumentation development for Optical/IR telescopes or radio telescopes; or
5. scientists with backgrounds in astrophysics or planetary sciences to pursue topics in theoretical astrophysics, computational fluid dynamics, or MHD.

More information on target areas of postdoc recruitment can be found at ASIAA Job Opening

The postdoc appointments at ASIAA will initially be for two years, with possible extension for additional two years based on satisfactory performance.

Applicants should apply online at on-Line Submission Form and submit:

- (1) a curriculum vitae,
- (2) a brief summary of past research or instrumentation experience, and
- (3) a future research plan.

Applicants are also requested to arrange three letters of recommendation to be submitted online at the same site.

Applications submitted before or on 15 December 2012 will receive full consideration. In addition, applicants have the option to apply for three types of prestige postdoctoral fellowships (the EACOA fellowships, the joint Berkeley-ASIAA fellowships, and the ALMA Taiwan fellowships). Please apply separately to these prestige fellowships through the respective submission instructions on ASIAA Job Opening

Included Benefits:

Medical insurance and travel allowance are provided. Please see the Academia Sinica website for more information:

<http://hro.sinica.edu.tw/cbemployee/cbemployeeen.html> [16]

B) TENURE-TRACK POSITION, BOSTON UNIVERSITY

The Department of Earth and Environment at Boston University invites applications for a tenure-track position at the Assistant Professor level in the broad field of Solid Earth Geophysics, starting July 1, 2013. We seek an applicant whose research emphasizes quantitative study of the Earth's lithosphere and mantle at either a regional or a global scale. Fields of study might include, but are not limited to, rock and mineral physics, seismology, geodynamics, tectonophysics, and marine geophysics. We encourage applications from individuals who employ field-based, experimental, or computational methods in their research.

We seek an applicant whose research complements departmental expertise in seismology, geodynamics, geochemistry and surface processes. Details at <https://academicjobsonline.org/ajo/jobs/2245> [17].

Review of applications will begin on January 1, 2013. Women and underrepresented minorities are particularly encouraged to apply. Boston University is an equal opportunity/affirmative action employer.

Note from submitter Paul Withers - The scope of this search is sufficiently broad to include planetary geophysics.

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UPCOMING MEETINGS

Atmospheres and Ices in Planetary Systems Symposium during the Davos Atmosphere and Cryosphere Assembly DACA-13 (<http://www.daca-13.ch/> [18])

The International Commission on Planetary Atmospheres and Evolution (ICPAE, www.atm.ox.ac.uk/icpae [19]) will convene a symposium on Atmospheres and Ices in Planetary Systems at the International Association of Meteorology and Atmospheric Sciences IAMAS and the International Association of Cryospheric Sciences IACS, both Associations of the International Union of Geodesy and Geophysics IUGG, invite you to the Davos Atmosphere and Cryosphere Assembly DACA-13 in Davos, Switzerland during 8-12 July 2013.

We invite papers reporting progress on our understanding of (i) giant planetary systems (cold gas and ice giants, their rings and icy satellites); (ii) terrestrial planets (lower, middle and upper atmosphere, ionosphere and surface ices); (iii) the cold conditions of icy bodies in the distance solar system (e.g., Pluto, dwarf planets, KBOs and comets); and (iv) the extreme physicochemical conditions to be found on extrasolar planets.

This symposium will be subdivided into two sessions: outer planets, terrestrial planets, exoplanets and laboratory experiments. Comparative studies of exoplanet atmospheres including the solar system planetary atmospheres are on the verge of becoming possible. Papers dealing with such topics are welcomed. Laboratory measurements under conditions found on solar system and exoplanet atmospheres are essential for understanding those atmospheres. Papers addressing such measurements are also invited.

In addition, papers reviewing the history of observing planetary atmospheres from space based



observations are also welcome to mark the 50th anniversary of the successful Mariner 2 observations of Venus in December 1962.

Sponsors: ICPAE of IAMAS, IACS

Session C1.1: Atmospheres and ices on terrestrial planets

Lead convener: Dmitri Titov (dmitri.titov@esa.int [20])

Co-conveners: Sanjay Limaye, Ralf Greve

Session C1.2: Atmospheres and ices on outer planets

Lead convener: Leigh N. Fletcher (fletcher@atm.ox.ac.uk [21])

Co-conveners: Darrell Strobel, Athena Coustenis

Limited travel support is available to young scholars to attend the meeting.

Schedule:

Deadline for abstracts with grant application 14 December 2012

Deadline for abstracts without grant application 31 January 2013

Acceptance information and draft program 28 February 2013

Deadline early registration 31 March 2013

http://www.daca-13.org/index_EN [22]

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Links

- [1] <http://www.chem.hawaii.edu/Bil301/ACSAstrochemistry.html>
- [2] <http://www.chem.hawaii.edu/Bil301/ACSAstrochemistryjoin.html>
- [3] <mailto:ralfk@hawaii.edu>
- [4] <mailto:asuits@chem.wayne.edu>
- [5] <mailto:mhg@cchem.berkeley.edu>
- [6] <http://famelab-eeb.arc.nasa.gov/>
- [7] <mailto:daniella.m.scalice@nasa.gov>
- [8] <http://dps.aas.org/jobs>
- [9] <http://dps.aas.org/node/add/job>



- [10] <mailto:dpsjobs@aas.org>
- [11] http://jobregister.aas.org/job_view?JobID=43491
- [12] <http://www.asiaa.sinica.edu.tw/jobopening/>
- [13] <http://hro.sinica.edu.tw/indexen.html>
- [14] <http://www.ifs.sinica.edu.tw/form.htm>
- [15] http://jobregister.aas.org/job_view?JobID=43111
- [16] <http://hro.sinica.edu.tw/cbemployee/cbemployeeen.html>
- [17] <https://academicjobsonline.org/ajo/jobs/2245>
- [18] <http://www.daca-13.ch/>
- [19] <http://www.atm.ox.ac.uk/icpae>
- [20] <mailto:dmitri.titov@esa.int>
- [21] <mailto:fletcher@atm.ox.ac.uk>
- [22] http://www.daca-13.org/index_EN