

## Newsletter 18-18

Issue 18-18, May 12, 2018

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### DPS ELECTIONS 2018: CANDIDATE SLATE

The DPS Nominating Subcommittee has identified the following candidates for the 2018 DPS elections for Vice Chair and Committee :

Vice-Chair (1 to be elected):

- o Matija Cuk, SETI Institute
- o Amanda Hendrix, Planetary Science Institute

Committee (2 to be elected):

- o Michael Bland
- o Will Grundy, Lowell Observatory
- o Lucille Le Corre, Planetary Science Institute

o Krista Soderlund, University of Texas, Austin

Additional candidates, supported by a petition of at least 20 DPS members, may be nominated by May 15th. Please send any nominations to the DPS Secretary, Anne Verbiscer, at [dpssec@aaas.org](mailto:dpssec@aaas.org) [1].

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REQUEST FOR COMMUNITY INPUT TO NASA SCIENTIFIC BALLOON PROGRAM ANALYSIS GROUP

NASA seeks input from planetary scientists on future directions of scientific ballooning. Over the next several months, NASA will incorporate input from the community into a Balloon Roadmap which, in turn, will help inform the upcoming 2020 Decadal Surveys. NASA's scientific balloons regularly fly payloads weighing over 5000-lb to altitudes of 33 - 37 km, above 99% of the Earth's atmosphere. NASA is developing super-pressure balloons to support 100-day flight durations at mid-latitudes.

- The NASA/GHAPS/SIDT report discusses some potential uses of stratospheric balloons for planetary science: <http://tinyurl.com/ghaps-sidt-report> [2]

- The full text of the Request-for-Input letter is here:

[http://www.phys.hawaii.edu/~gorham/Post/NASA\\_Roadmap\\_RFI.pdf](http://www.phys.hawaii.edu/~gorham/Post/NASA_Roadmap_RFI.pdf) [3]

Note that there will be a session on July 19, 2018 at COSPAR in Pasadena with opportunities to present input, but content must be received by mid-June (via

email: [balloonroadmap@lsu.edu](mailto:balloonroadmap@lsu.edu) [4]).

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EPSC SESSION: MODELS OF ATMOSPHERES AND EXOSPHERES, SURFACES, AND INTERIORS OF SMALL BODIES

Dear colleagues,

This is a reminder for the upcoming abstract submission deadline of the next EPSC conference (<https://www.epsc2018.eu/> [5]) that will be held in Berlin on 16-21 September 2018.

Abstracts submission is now open to Session SB11/MD7: "Models of atmospheres and exospheres, surfaces, and interiors of small bodies"

The analysis and interpretation of data from recent and upcoming planetary missions to solar system small bodies require the development of new specific models. This session will focus on the description of these new models and the results of their applications. Abstracts on atmospheric and exospheric modeling, radiative transfer models and modeling of scattering properties of surfaces and surface release processes, are welcome as well as thermophysical evolution models of interiors of small bodies.

To submit you may use the following link:

<https://meetingorganizer.copernicus.org/EPSC2018/abstractsubmission/29898> [6]

The Abstract submission deadline is May 16, 2018, 13:00 CEST.

Best regards,

The conveners

Michelangelo Formisano

Andrea Raponi

Audrey Vorburger

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EPSC SESSION: CERES AND VESTA

Dear colleagues,

this is a reminder for the upcoming abstract submission deadline of the next EPSC conference (<https://www.epsc2018.eu/> [5]) that will be held in Berlin on 16-21 September 2018.

The "Abstract submission deadline" is May 16, 2018, 13:00 CEST.

We would like to invite you to submit an abstract to the Session:

SB9 - "Ceres and Vesta ".

Session summary: September 2017 marked 10 years since the launch of NASA's Dawn mission. Dawn has been the first mission to orbit two different targets in the main asteroid belt: the largest asteroid Vesta and the dwarf planet Ceres. Dawn's overall results represent a huge leap in our understanding of these bodies. Dawn is now in its Second Extended Mission Phase. In this session we welcome contributions that cover: 1) latest results obtained from the Dawn mission on both Ceres and Vesta, concerning geology, mineralogy, surface composition and/or geophysics, 2) comparative analysis of Vesta and Ceres in terms of surface processes, internal structure, thermal evolution and origins. The goal of this session is to highlight the major achievements of the Dawn mission, and to illustrate recent discoveries and ongoing work on Vesta and Ceres through direct analysis of Dawn data, study of analogs and/or theoretical models.

To submit you may use the following link:

<https://meetingorganizer.copernicus.org/EPSC2018/session/29473> [7]

Looking forward to see you in Berlin,

The conveners

Francesca Zambon

Eleonora Ammannito

Wladimir Neumann

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EPSC SESSION: AEROSOLS AND CLOUDS IN PLANETARY ATMOSPHERES

Dear Colleagues,

The abstract submission for the European Planetary Science Congress 2018 organized in Berlin, Germany, on 16–21 September 2018, is open until May 16.

We invite you to submit abstracts to the session  
OPS5/TP11 "Aerosols and clouds in planetary atmospheres"!

<http://meetingorganizer.copernicus.org/EPSC2018/session/29457> [8]

Atmospheric aerosols and cloud particles are found in every atmosphere of the solar system, as well as, in exoplanets. Depending on their size, shape, chemical composition, latent heat, and distribution, their effect on the radiation budget varies drastically and is difficult to predict. When organic, aerosols also carry a strong prebiotic interest reinforced by the presence of heavy atoms such as nitrogen, oxygen or sulfur.

The aim of the session is to gather presentations on these complex objects for both terrestrial and giant planet atmospheres, including the special case of Titan's hazy atmosphere. All research aspects from their production and evolution processes, their observation/detection, to their fate and atmospheric impact are welcomed, including laboratory investigations and modeling.

The ambition of the session is a review effort beginning in our solar system, and which would be valuable to further investigate atmospheric aerosols in exoplanetary systems.

Spread the word, and see you in Berlin!

With best regards,  
Nathalie Carrasco, Panayotis Lavvas and Anni Määttänen

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## .ASTRONOMY X: MINING THE PAST, MAKING SPACE FOR THE FUTURE

Dear colleagues

We are excited to announce our upcoming conference:

".Astronomy X: Mining the past, making space for the future"  
Space Telescope Science Institute, Baltimore, US

24-27 September 2018

The .Astronomy conference (<http://www.dotastronomy.com> [9]) brings together an international community of astronomers, science communicators and educators to discuss new ways in which software and web-based technologies can enable innovation and accelerate new discoveries in astronomy research that reach beyond the realm of traditional academia. Through talks, tutorials, unconfereces and a hack day, participants gain new coding or maker skills, hear about the latest data services and tools, learn how to communicate and collaborate more effectively using web platforms, and broaden their views on what a career in astronomy can look like.

For the 10th edition of .Astronomy we will explore the past/future duality that is unique to our subject. We push to build, innovate and explore to study at the same time the history and the future of the Universe. We apply new technologies to data from past observations to generate new knowledge. As our host institute STScI is a world-leading centre for space astronomy, we'll be incorporating the theme of space into our sessions.

If you are interested in attending .Astronomy X, please visit the STScI conference webpage <<http://www.stsci.edu/institute/conference/astromyx> [10]> for information on registration. Please submit your pre-registration forms by Friday, June 8th.

If you have any questions, contact us at [dotastrox@stsci.edu](mailto:dotastrox@stsci.edu) [11].

Confirmed Invited Speakers

- \* Prof. Andy Connolly, University of Washington, US
- \* Prof. Jarita Holbrook, University of the Western Cape, South Africa
- \* Prof. Sarah Hörst, Johns Hopkins University, US
- \* Prof. James Howison, University of Texas at Austin, US

We hope to welcome you in Baltimore!

Kind regards,

The .Astronomy X SOC  
Sarah Kendrew (Chair)

Arfon Smith (co-Chair)  
Tom Donaldson

Susan Kassin  
Iva Momcheva  
Josh Peek  
Erik Tollerud

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**NASA SMD SEEKS VOLUNTEER REVIEWERS**

Seeking volunteer reviewers in Earth and Space Science

NASA's Science Mission Directorate (SMD) is seeking subject matter experts to serve as mail-in and/or panel reviewers of proposals to ROSES and other SMD solicitations. Just follow the links below to the volunteer review forms and click the boxes to indicate the topics in which you consider yourself to be a subject matter expert. If your skills match our needs for that review, we will contact you to discuss scheduling.

We are currently seeking reviewers for:

Heliophysics Programs (Appendix B of ROSES-18)

Emerging Worlds (C.2 of ROSES)

Exobiology (C.5 of ROSES)

Solar System Observations (C.6 of ROSES)

Planetary Data Archiving, Restoration, and Tools (C.7 of ROSES)

MatISSE and DALI (high-TRL planetary instrument programs) C.13 and C.22  
of ROSES

Juno Participating Scientist Program (E.5 of ROSES)

Earth Surface and Interior and Space Geodesy Programs

Astrophysics Data Analysis Program (D.2 of ROSES)

Small Innovative Missions for Planetary Exploration (SIMPLEx PEA J of  
SALMON-3 AO)

The landing page all of these forms may be found at:

<http://science.nasa.gov/researchers/volunteer-review-panels/> [12]

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JOBS, POSITIONS, OPPORTUNITIES

A) LECTURER POSITION AT THE UNIVERSITY OF TENNESSEE, KNOXVILLE

Lecturer / Laboratory Director position in the Department of Earth and  
Planetary Sciences

Further details and instructions for applying are at:

<https://webapps.utk.edu/humanresources/utjoblist/> [13]



We seek to hire a dynamic educator to teach introductory geoscience courses (including planetary science), coordinate laboratory sections and mentor graduate students. This is a 12-month position with a competitive salary and would be a great fit for those interested in geoscience education and curriculum development. Although the initial appointment is for one year, the contract is renewable. The University of Tennessee, Knoxville has a three-tiered promotional structure for lecturers, so career advancement and wage increases are expected, contingent upon performance evaluations. Knoxville has a growing arts and culture scene, fantastic outdoor recreational opportunities and provides excellent quality of life.

#### B) PHD POSITION AT UNIVERSITY OF IDAHO

The IceCrystal project has an open position for a student seeking a PhD. The individual will be working with VNIR spectral analysis of lava flows and will focus on microcrystal distribution throughout flow features. The student will participate in field campaigns in rugged and remote volcanic regions located in Idaho, Iceland, and Alaska. The student will produce a protocol for the most effective method for collecting spectral data with the purpose of identifying environmental conditions experienced by lava flows during emplacement. The work will be performed in collaboration with NASA Ames Research Center and the SETI Institute. Starting date for the position is as soon as August-2018.

Please contact [erader@uidaho.edu](mailto:erader@uidaho.edu) [14] with questions about the position and

instructions on how to apply.

#### C) THREE-YEAR POSTDOC POSITION AT THE UNIVERSITY OF IDAHO

##### Position Summary

The IceCrystal project has a post-doctoral fellowship available. The individual will be expected to perform visible-near infrared reflectance (VNIR) spectral analysis of terrestrial basaltic lava flows with particular emphasis on unaltered glassy surfaces. Spectral measurements will be conducted during field campaigns, which involves travel to rugged and remote volcanic regions located in Idaho, Iceland, and Alaska. This individual will then compare spectral signatures of glassy basalts from different regions and apply these findings to lava flows on Mars using the CRISM dataset. The work will be performed in collaboration with NASA Ames Research Center and the SETI Institute. Starting date for the position is as soon as August-2018.

Please contact [erader@uidaho.edu](mailto:erader@uidaho.edu) [14] with questions about the position and application instructions.

#### D) POSTDOCTORAL POSITION IN COMETARY PLASMA PHYSICS AT IRF IN UPPSALA, SWEDEN

The Swedish Institute of Space Physics is seeking candidates for a postdoctoral position in space physics to study the complex dynamics of a cometary ionosphere. Our group is responsible for one of the plasma

instruments on the Rosetta spacecraft to comet 67P, and we collaborate closely with other Rosetta teams. In this project, there will also be collaboration with a team doing particle-in-cell plasma simulations.

The work involves both analysis of Rosetta data and theoretical modeling. Experience in the analysis of space plasma data is expected, and experience in relevant theoretical modelling is an advantage.

Candidates should have completed a PhD during 2015 or later. Candidates planning to obtain their PhD degree no later than September 2018 can also apply.

The position is available at our Uppsala office for 2 years. At IRF Uppsala some 20 researchers work on the space plasma mainly around Earth, Saturn, Mars and comet 67P using data from our own instruments on Rosetta, Cluster, MMS, Swarm and Cassini as well as other data. The project is financed by the Swedish National Space Board.

More information:

<http://www2.irf.se/Topical/Vacancies/?group=P4&vacid=62> [15]

Closing date: 15 May 2018

**E) POSTDOCTORAL RESEARCH ASSOCIATE IN VENUS OR MARS SCIENCE, WESLEYAN UNIVERSITY**

Wesleyan University Department of Earth and Environmental Sciences, Planetary Sciences Group is seeking a Postdoctoral Research Associate for one of two potential projects to work under the direction of Prof.

Martha Gilmore. The funds will be available July 1, 2018 for two years.

Venus Surface Mineralogy - we seek someone with expertise in geomorphology, remote sensing and mineralogy to undertake analysis of radar properties of the Venus surface to constrain the origin and composition of tessera highlands and the lowland plains materials. We will also examine chemical changes in relevant minerals exposed to Venus conditions using a number of analytical techniques.

Mars Geochemistry and Spectroscopy - The project is to create a series of Mars analogue brines and precipitate them under terrestrial and martian conditions in a Mars chamber. VNIR spectra of the precipitates will be collected in situ and compared to data collected by CRISM in Mars orbit.

The Planetary Sciences Group comprises 6 core faculty, 7 affiliated faculty and postdocs across the sciences and offers both graduate and undergraduate planetary curricula.

<http://www.wesleyan.edu/planetary> [16]

Wesleyan University is in Middletown CT, a New England college town midway between New York and Boston.

To apply:

<https://careers.wesleyan.edu/postings/6316> [17]

Questions: Prof. Martha Gilmore, [mgilmore@wesleyan.edu](mailto:mgilmore@wesleyan.edu) [18]

Applications will be reviewed as they are received.

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Send submissions to:

Anne Verbiscer, DPS Secretary ([dpssec@aaas.org](mailto:dpssec@aaas.org) [19])

To unsubscribe visit <http://aas.org/unsubscribe> [20] or email [unsubscribe@aas.org](mailto:unsubscribe@aas.org) [21].

To change your address email [address@aas.org](mailto:address@aas.org) [22]

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### Links:

[1] <https://mail02.ndc.nasa.gov/owa/redir.aspx?C=mwHOWx5tiRqWqSs-nFr8Oegrvvvyh3qlziFfmYRJPP-d09hKCQbjVCA..&URL=mailto%3adpssec%40aas.org>

[2] <https://mail02.ndc.nasa.gov/owa/redir.aspx?C=wdDXPaxzPGtwAghMOym8cRcWmiFZ6EeSChKxGFgXcLh09hKCQbjVCA..&URL=http%3a%2f%2ftinyurl.com%2fghaps-sidt-report>

[3] [https://mail02.ndc.nasa.gov/owa/redir.aspx?C=KEIxdpNXp6rjP9w4RV48sMipkHMV70IEW2IxTBItGgB09hKCQbjVCA..&URL=http%3a%2f%2fwww.phys.hawaii.edu%2f%257Egorham%2fPost%2fNASA\\_Roadmap\\_RFI.pdf](https://mail02.ndc.nasa.gov/owa/redir.aspx?C=KEIxdpNXp6rjP9w4RV48sMipkHMV70IEW2IxTBItGgB09hKCQbjVCA..&URL=http%3a%2f%2fwww.phys.hawaii.edu%2f%257Egorham%2fPost%2fNASA_Roadmap_RFI.pdf)

[4] <https://mail02.ndc.nasa.gov/owa/redir.aspx?C=UzjzVwk6wUflkrNNm9B4b6koziljiWUYVWumJV5wrR109hKCQbjVCA..&URL=mailto%3aballoonroadmap%40isu.edu>

[5] [https://mail02.ndc.nasa.gov/owa/redir.aspx?C=vQzaXlkzg5Wbj\\_GzsA4garYeHZ6bBSW3qAhT4Ly2\\_wB09hKCQbjVCA..&URL=https%3a%2f%2fwww.epsc2018.eu%2f](https://mail02.ndc.nasa.gov/owa/redir.aspx?C=vQzaXlkzg5Wbj_GzsA4garYeHZ6bBSW3qAhT4Ly2_wB09hKCQbjVCA..&URL=https%3a%2f%2fwww.epsc2018.eu%2f)

[6] [https://mail02.ndc.nasa.gov/owa/redir.aspx?C=eVEhu5m5Lew4IeH9O\\_7uxnDXglQcgsntySzZCoHGIGj09hKCQbjVCA..&URL=https%3a%2f%2fmeetingorganizer.copernicus.org%2fEPSC2018%2fabstractsubmission%2f29898](https://mail02.ndc.nasa.gov/owa/redir.aspx?C=eVEhu5m5Lew4IeH9O_7uxnDXglQcgsntySzZCoHGIGj09hKCQbjVCA..&URL=https%3a%2f%2fmeetingorganizer.copernicus.org%2fEPSC2018%2fabstractsubmission%2f29898)

- [7] [https://mail02.ndc.nasa.gov/owa/redir.aspx?C=0KWnsEYqF3o0r6nqG4bDWMtkE2Usm\\_kF4FI130alGSB09hKCQbjVCA..&URL=https%3a%2f%2fmeetingorganizer.copernicus.org%2fEPSC2018%2fsession%2f29473](https://mail02.ndc.nasa.gov/owa/redir.aspx?C=0KWnsEYqF3o0r6nqG4bDWMtkE2Usm_kF4FI130alGSB09hKCQbjVCA..&URL=https%3a%2f%2fmeetingorganizer.copernicus.org%2fEPSC2018%2fsession%2f29473)
- [8] [https://mail02.ndc.nasa.gov/owa/redir.aspx?C=4Ni46RsEHUnIAI0m\\_w-mR0riiqzAVNpG9xEuyvk0hIJ09hKCQbjVCA..&URL=http%3a%2f%2fmeetingorganizer.copernicus.org%2fEPSC2018%2fsession%2f29457](https://mail02.ndc.nasa.gov/owa/redir.aspx?C=4Ni46RsEHUnIAI0m_w-mR0riiqzAVNpG9xEuyvk0hIJ09hKCQbjVCA..&URL=http%3a%2f%2fmeetingorganizer.copernicus.org%2fEPSC2018%2fsession%2f29457)
- [9] [https://mail02.ndc.nasa.gov/owa/redir.aspx?C=PsQcIn2L\\_pCgmjBSGxfg1LnHNsGo67hFUtrj353XIB509hKCQbjVCA..&URL=http%3a%2f%2fwww.dotastronomy.com%2f](https://mail02.ndc.nasa.gov/owa/redir.aspx?C=PsQcIn2L_pCgmjBSGxfg1LnHNsGo67hFUtrj353XIB509hKCQbjVCA..&URL=http%3a%2f%2fwww.dotastronomy.com%2f)
- [10] [https://mail02.ndc.nasa.gov/owa/redir.aspx?C=UaN7hsa2st2oc2Sjx2DQ2TqY0XW5rN\\_Sj513-jgFNzB09hKCQbjVCA..&URL=http%3a%2f%2fwww.stsci.edu%2finstitute%2fconference%2fastronomyx](https://mail02.ndc.nasa.gov/owa/redir.aspx?C=UaN7hsa2st2oc2Sjx2DQ2TqY0XW5rN_Sj513-jgFNzB09hKCQbjVCA..&URL=http%3a%2f%2fwww.stsci.edu%2finstitute%2fconference%2fastronomyx)
- [11] <https://mail02.ndc.nasa.gov/owa/redir.aspx?C=QGII4pCmLUH1BAQ3vpeXcFtQvfNKA41Nljb85KtA4B09hKCQbjVCA..&URL=mailto%3adotastrox%40stsci.edu>
- [12] <https://mail02.ndc.nasa.gov/owa/redir.aspx?C=4mqJa0AA2f-yY4dtdawmra5KY1G0wHBPPhfPmK5h6shF09hKCQbjVCA..&URL=http%3a%2f%2fscience.nasa.gov%2fresearchers%2fvolunteer-review-panels%2f>
- [13] [https://mail02.ndc.nasa.gov/owa/redir.aspx?C=41G5qI\\_WsxjaCrWZmx6olZhlN1B9ajn2PLJpFGNTvuR09hKCQbjVCA..&URL=https%3a%2f%2fwebapps.utk.edu%2fhumanresources%2futjoblist%2f](https://mail02.ndc.nasa.gov/owa/redir.aspx?C=41G5qI_WsxjaCrWZmx6olZhlN1B9ajn2PLJpFGNTvuR09hKCQbjVCA..&URL=https%3a%2f%2fwebapps.utk.edu%2fhumanresources%2futjoblist%2f)
- [14] <https://mail02.ndc.nasa.gov/owa/redir.aspx?C=2uvYh4nVIVrvizhAU14giL0DpmuKiBa7mFX6L5Duc1R09hKCQbjVCA..&URL=mailto%3aerader%40uidaho.edu>
- [15] <https://mail02.ndc.nasa.gov/owa/redir.aspx?C=l4aSI0p0PKIn261X-PQpZ5MaNwVergRVwBhe3CYJKrt09hKCQbjVCA..&URL=http%3a%2f%2fwww2.irf.se%2fTopical%2fVacancies%2f%3fgroup%3dP4%26vacid%3d62>
- [16] [https://mail02.ndc.nasa.gov/owa/redir.aspx?C=sTRRwhsgmtoW-L9LdkA\\_TofTQbQ3ZoRv8YabNaw6zynYVxWCQbjVCA..&URL=http%3a%2f%2fwww.wesleyan.edu%2fplanetary](https://mail02.ndc.nasa.gov/owa/redir.aspx?C=sTRRwhsgmtoW-L9LdkA_TofTQbQ3ZoRv8YabNaw6zynYVxWCQbjVCA..&URL=http%3a%2f%2fwww.wesleyan.edu%2fplanetary)
- [17] <https://mail02.ndc.nasa.gov/owa/redir.aspx?C=S3NUNeY3QwuSDukhnYWPshcM2keUvttIjQR-LLs5rj3YVxWCQbjVCA..&URL=https%3a%2f%2fcareers.wesleyan.edu%2fpostings%2f6316>
- [18] <https://mail02.ndc.nasa.gov/owa/redir.aspx?C=tSKrazUq7ok3L6MkU3P3WSeXHDDeY4ic2oF-FnxByJo3YVxWCQbjVCA..&URL=mailto%3amgilmore%40wesleyan.edu>
- [19] <https://mail02.ndc.nasa.gov/owa/redir.aspx?C=n6DMWFtMcx7MzAYncrPOH6KgHpY28TbNTUihzHtN8fDYVxWCQbjVCA..&URL=mailto%3adpssec%40aas.org>
- [20] <https://mail02.ndc.nasa.gov/owa/redir.aspx?C=TmIX06KNA1B7Prj7s1ZQcCwyb7gD9IprlmJTP1d8TDVYVxWCQbjVCA..&URL=http%3a%2f%2faas.org%2funsubscribe>
- [21] [https://mail02.ndc.nasa.gov/owa/redir.aspx?C=stVwHTy8hVEAZXyRT\\_jlJWeEw6W8ZxQkdZJTv4rTznHYVxWCQbjVCA..&URL=mailto%3aunsubscribe%40aas.org](https://mail02.ndc.nasa.gov/owa/redir.aspx?C=stVwHTy8hVEAZXyRT_jlJWeEw6W8ZxQkdZJTv4rTznHYVxWCQbjVCA..&URL=mailto%3aunsubscribe%40aas.org)
- [22] <https://mail02.ndc.nasa.gov/owa/redir.aspx?C=jsK4lzY4yZUjUv-jMH3TAtIzptS0Lh5xSUGvaiHCM0PYVxWCQbjVCA..&URL=mailto%3aaddress%40aas.org>