



ASGSR – American Society for Gravitational and Space Research

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Mission Statement from webpage (asgsr.org):

The American Society for Gravitational and Space Research (ASGSR), was formerly known as the American Society for Gravitational and Space Biology (ASGSB) a nonprofit 501(c)(6) organization, founded in 1984, provides a forum to foster research, education and professional development in the multidisciplinary fields of gravitational space biological and physical sciences. ASGSR brings together a diverse group of scientists and engineers to encourage and exchange ideas bridging basic and applied biological and physical science research in space and gravitational sciences. The members represent academia, government, and industry interests bonded by a common issue - how living organisms and physical systems respond to gravity and the many related broad-reaching questions regarding biological presence in extraterrestrial environments. The society's mission also includes education and outreach. The Vision of ASGSR is to advance biological and physical science research in, of and for space by bringing together professional communities spanning gravitational biology, radiation biology, physical sciences, bioastronautics and astrobiology, and mentoring the future scientific and engineering leaders in these fields.



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Bringing Together:

Space Life and Physical Sciences

Academic Researchers; scientists, engineers, educators

Industry Scientists and Engineers

Public and Educational Outreach

With interests in...

Suborbital

Orbital – ISS / LEO

Deep Space

Analog Environments

GeneLab

Terrestrial applications and translational research

Commercial Space opportunities

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ASGSR Board Meeting Next week:

Issues important to the society; Interactions with
representatives of

- Congress
- NASA
- CASIS
- CSF

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Connections to NAS, CBPSS, Decadal Survey

- Began last year with overlap of ASGSR Spring Board Meeting and mid-term assessment committee
- Initiated dialogs between ASGSR to connect topics of interest to Space Life and Physical Sciences research community with the members of the Space Studies Board.
- Interest developed in both groups to further exchange information and insight into the field

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Research foci for the coming decade in the ASGSR community

- Getting the most out of the ISS as a research platform
 - make full use of maturing capabilities, opening crew time and new facilities
- Science opportunities beyond LEO
 - Deep space research opportunities in transit vehicles and in lunar orbit
 - Beyond LEO exploration – Mars, Moon, Asteroid

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Today's Purpose

- Solidify those interests and connections with some actions that can help inform the CBPSS on the foci and goals of the space research community – what does the community see as hot topics and research areas of importance for the next decade
- ASGSR helping to put those data together and contribute to the development of the next decadal survey.

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Two general Strategies

White papers

- Brainchild of Kevin Sato, the current President Elect
- We are developing the best approaches and recruiting and organizing writing leads
- We envision two White Papers – one dedicated to Physical Sciences, one to Life Sciences; each with subcategories of specific disciplines contributed by the community, collated by writers from the Board

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The slide features two decorative images. On the left, a partial view of the Earth's horizon shows blue oceans, white clouds, and a sliver of brown land. On the right, a vertical strip of a starry night sky is visible, filled with numerous bright stars of varying colors (blue, white, yellow) and some faint nebulae.

Town Hall

Currently under development for next Year's Annual Meeting, two approaches being discussed:

- A session in the regular program which includes short presentation by white paper editorial leads, and then open discussion, with note takers
- A Box Lunch session that is similarly organized

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Life Sciences Topics:

- Systems biology of eukaryotes
 - Humans and other mammals
 - Plants
 - Invertebrates
- Physiology and metabolism
- Microbial systems and ecologies
- The effects of Radiation on biology
- Life science research enabling human space exploration

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Physical Sciences Topics:

- Fundamental Physics
- Combustion
- Fluids
- Materials