

# THE 25<sup>TH</sup> ANNUAL AIAA/USU CONFERENCE ON SMALL SATELLITES PRESENTS: THE McLogan Group

**Panel Moderator** 

**Bob Meurer - Conference Technical Chairman** 



## Panel Overview

- An interactive discussion forum on the technology needs of the small satellite sector in the coming decade, with specific emphasis on both bus and payload related technologies that are enabling across a broad mission spectrum. Panelists will emphasize game-changing technologies that provide a quantum improvement in the performance vs. cost trade-off, especially those that may be achievable in the near term (<5 years).</p>
  - Additionally, our intention is to foster discussion of the best means by which to pursue R&D, technology insertion, and operational experimentation to develop and validate these game-changing technologies.
- ★ Discussion topics include:
  - What are the technology drivers for contemporary small satellites?
  - Where should the emphasis be placed cost vs. performance, bus vs. payload?
  - Are we doing enough of the right things to meet our technology growth needs?



## Panel Ground Rules

- Panel members are challenged to provide candid views and insight based upon their varied backgrounds and unique interests in influencing the future direction of small satellite technologies.
  - Panelists are asked to express their convictions on each issue (reason & logic) and hopefully with clarity and passion.
  - The opinions expressed in this panel represent those of the panelists and may not represent the opinions of their agencies or employers.
  - After the initial round of questions and answers, panelists are free to interrupt other panelists to make a point – an active dialog is the objective.
  - The moderator is allowed to take all sides.



# Audience Participation

- \* This year we will invite audience participation through two channels
  - Direct questions from the audience please submit these on the cards provided; and
  - As before, an Audience Feedback Device
    - Buttons A-E allow you to select your answer
  - When a question is projected you will have ≈15 seconds to register your vote
  - You may change your vote in the 15 second period
    - The system will only register one vote per device
  - After you vote, the system will project the results of the poll









- Director of Engineering
  - NASA Ames Research Center





Dr. Peter Wegner

- Director
  - Operationally Responsive Space Office





Dr. John Paffett

- Chief Executive Officer
  - Surrey Satellite Technology Ltd. U.S.

Panelists



### ISSUE #1

What are the technology drivers for contemporary small satellites?



#### ISSUE #2

What is more important in small satellite technology investment - performance improvement or cost reduction?



## Audience Question - #1

- \* If you could choose just one end of this cost vs. performance continum in which to invest, would you invest in technologies that:
  - A. Reduce Mission Cost, or
  - B. Raise Mission Performance?
- \* Audience Vote Now



## Audience Question - #2

- ★ Given you could only invest in one element of the technology solution set, would you invest in ...
  - Greater payload capability;
  - Greater spacecraft bus capabilities; В.
  - Advancements in the ground architecture; or
  - Access to space, i.e., affordable small satellite launch capability?
- Audience Vote Now



#### ISSUE #3

Is the pace of new technology insertion into our small satellite programs leading or following mission requirements?



#### **CLOSING PREDICTIONS**

Prospects for expansion of the small satellite market







## Thanks to our Panelists





Mr. Pete Klupar

 Focused on smallsat technologies to enable future discoveries



Dr. Peter Wegner

 Providing timely & assured space access to the warfighter





Dr. John Paffett

 CEO of a pioneering and visionary small satellite market sector leader



#### THANKS TO THE AUDIENCE AS WELL!

As you leave the session, please turn in your audience feedback devices.

We'll now take a break until 4:30 p.m.