

# RS2011

The Responsive Space Conference is expanding to become the Reinventing Space Conference

## Call for Papers

### ***Creating Affordable & Responsive Space Missions***

**This year the Responsive Space Conference has become the Reinventing Space Conference in order to put a renewed emphasis on the importance of reducing cost.** Most of the people working in Responsive Space have also wanted to create much lower cost space missions. At RS3, Dr. Pete Ristan urged the community to use Responsive Space developments and advancements as a means of reducing the cost of larger, more traditional space systems. The current economic crisis makes that need even more critical if we are to meet the ambitious goals of the American space program. If a solution to the prohibitively high cost of space is not found, then the shortfall in future years will require major cuts in space activity. We are already starting to see that occur. **It's a problem that must be addressed and addressed quickly. Our goal for RS 2011 is to try to help.** A classified session (DoD Secret) will also be held on Friday, May 6, 2011.

As in prior years, RS 2011 will accept papers on all aspects of Low-Cost, Responsive Space, but particularly solicits papers that emphasize economic analysis and methods, techniques, and examples of ways to drive down space mission cost and schedule and create affordable and responsive space missions. Such topics include:

**Business** — How do we make money on Affordable and Responsive Space Missions? Is there a business case for “low-cost, instant gratification”? What does “low-cost” mean to the builder and to the user?

**Missions and Applications** — What are the civil, military, and educational applications for low-cost, responsive missions?

**CONOPS** — How does Affordable, Responsive Space work for the end user who doesn't care about space? How do we replace defunct satellites responsively and at low cost without creating an entirely new Operations infrastructure?

**Launch** — Where are we (or where aren't we) with respect to responsive, low-cost access to space? Are the Russians and Chinese the only ones who will have launch-on-demand at low cost?

**Technology** — Where are we in plug-and-play; flexible, multi-use systems; low-cost components; standards and procedures?

**Mission and Systems Engineering** — What is the status of low-cost responsive mission design, measures of effectiveness, orbits, and getting information to the end user within hours of an unexpected event?

**Education and Motivation** — How do we both educate and motivate the coming generation of space technologists? How do we use Responsive, Low-Cost Space to convince young professionals that space is the place to build a career?

***Let's Get Together Again and Make It Happen!***

Please submit abstracts for RS 2011 of up to 500 words in PDF or MS Word by Oct. 1, 2010, to Julie Jackson at [Julie@ResponsiveSpace.com](mailto:Julie@ResponsiveSpace.com). An abstract template is available on the website.

Questions or Issues? Submit them to [questions@ResponsiveSpace.com](mailto:questions@ResponsiveSpace.com). The complete text of all of the papers from the RS1 through RS8 Conferences are on the website along with indexes by topic, author, and organization. This allows you to find past papers and relevant background quickly and easily.

***Come Join the Continuing Conversation on Affordable Responsive Space  
May 2-6, 2011***

*Jim Wertz, Reinventing Space Conference General Chair*

*For sponsorship and exhibit information, contact Dr. Robert Conger at [rconger@microcosminc.com](mailto:rconger@microcosminc.com) or (310) 219-2700*

***[www.ResponsiveSpace.com](http://www.ResponsiveSpace.com)***

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