

## Program



# NETS 2012

Nuclear and Emerging Technologies for Space  
March 21-23, 2012 – The Woodlands, TX

held in conjunction with the  
*43<sup>rd</sup> Lunar and Planetary Science Conference –*  
 March 19-23, 2012

To access the abstracts, use the hand tool of your Acrobat Reader  
 to click on the name of any session.  
 After the full program listing for that session appears,  
 click on the title of a presentation to view the abstract for that presentation.

### Wednesday, March 21, 2012

- |            |                       |   |
|------------|-----------------------|---|
| 12:15 p.m. | Panther Creek         | <a href="#">Nets Tutorial: Building the Bridge Between Science Missions and Nuclear Power Sources</a> |
| 5:30 p.m.  | Waterway Ballroom 4/5 | <a href="#">Nuclear and Emerging Technologies for Space: Opening Plenary</a>                          |

### Thursday, March 22, 2012

- |            |                          |  |
|------------|--------------------------|--|
| 8:30 a.m.  | Waterway Ballroom 1      | <a href="#">Fission Power Systems</a>  |
|            | Waterway Ballroom 3      | <a href="#">Radioisotope Power Systems: Pu-238 Production and Analysis</a>                       |
| 10:30 a.m. | Waterway Ballroom 1      | <a href="#">Advanced Concepts: Advanced Fission Concepts and Systems</a>                         |
|            | Waterway Ballroom 2      | <a href="#">Missions and Architectures: Space Radiation Shielding and Lunar Surface Concepts</a> |
|            | Waterway Ballroom 3      | <a href="#">Radioisotope Power Systems: Mission Simulation, Integration and Test</a>             |
| 1:30 p.m.  | Waterway Ballroom 1      | <a href="#">Fission Power Systems: Reactor Design and Simulation</a>                             |
|            | Waterway Ballroom 2      | <a href="#">Nuclear Thermal Propulsion: Program Overview</a>                                     |
|            | Waterway Ballroom 3      | <a href="#">Radioisotope Power Systems: RPS Design Safety</a>                                    |
| 3:30 p.m.  | Waterway Ballroom 1      | <a href="#">Fission Power Systems: Heat Transfer and Thermal Control</a>                         |
|            | Waterway Ballroom 2      | <a href="#">Nuclear Thermal Propulsion: Modeling</a>   |
|            | Waterway Ballroom 3      | <a href="#">Radioisotope Power Systems: Thermoelectric Energy Conversion</a>                     |
| 6:00 p.m.  | Town Center Exhibit Area | <a href="#">Poster Session: Nuclear and Emerging Technologies for Space</a>                      |

**Friday, March 23, 2012**

8:30 a.m.	Waterway Ballroom 1	<a href="#">Fission Power Systems: Power Conversion, Management, and Distribution</a>
	Waterway Ballroom 2	<a href="#">Nuclear Thermal Propulsion: NTP Fuels I</a>
	Waterway Ballroom 3	<a href="#">Radioisotope Power Systems: Stirling Generators</a>
10:30 a.m.	Waterway Ballroom 1	<a href="#">Fission Power Systems: Testing and Validation</a>
	Waterway Ballroom 2	<a href="#">Nuclear Thermal Propulsion: NTP Fuels II</a>
	Waterway Ballroom 3	<a href="#">Radioisotope Power Systems: Stirling Energy Conversion</a>
1:30 p.m.	Waterway Ballroom 1	<a href="#">Missions and Architectures: Space Policy and Risk Analysis</a>
	Waterway Ballroom 2	<a href="#">Advanced Concepts: Aneutronic Fusion Power and Propulsion</a>
	Waterway Ballroom 3	<a href="#">Radioisotope Power Systems: Alternative Fuels and Methods</a>
3:30 p.m.	Waterway Ballroom 2	<a href="#">Advanced Concepts: LENR, Anti-Matter, and New Physics</a>
	Waterway Ballroom 3	<a href="#">Radioisotope Power Systems: Future RPS Concepts</a>