

To: Charles Garner <Charles.E.Garner@jpl.nasa.gov>
From: Humphrey.W.Price@jpl.nasa.gov
Subject: Draft Solar Sail Abstract for STAIF-2001 Conf.
Cc: sgavit@mail1.jpl.nasa.gov
Bcc:
Attached:

Chuck,

Appended below is an abstract for the conference. Is this a suitable paper? Who should be included as co-authors? Maybe some of the following people?

Chuck Garner
Juan Ayon
Gerhard Klose
Dick Wallace
John West
Sarah Gavit

I'm going to go ahead and get the abstract started in Document Review so it can be approved by Friday.

Regards,

Hoppy

STAIF-2001 Abstract

Title: Design for a Solar Sail Demonstration Mission

Authors: H. Price plus others from above list

Summary: NASA's Jet Propulsion Laboratory is planning for a solar sail demonstration in the next few years. This paper describes the requirements for such a mission within the context of a solar sail program with specific goals for future science missions. These missions range from inner solar system exploration to interstellar travel. The requirements include performance, scalability, risk, and cost.

Trade studies are summarized, including sail shape, sail construction, deployment methods, attitude control and dynamics, and technology issues. A design is presented for the near term demonstration mission, along with a deployment storyboard. A configuration layout, block diagram, and mass list is provided along with the mission scenario and performance characteristics.

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