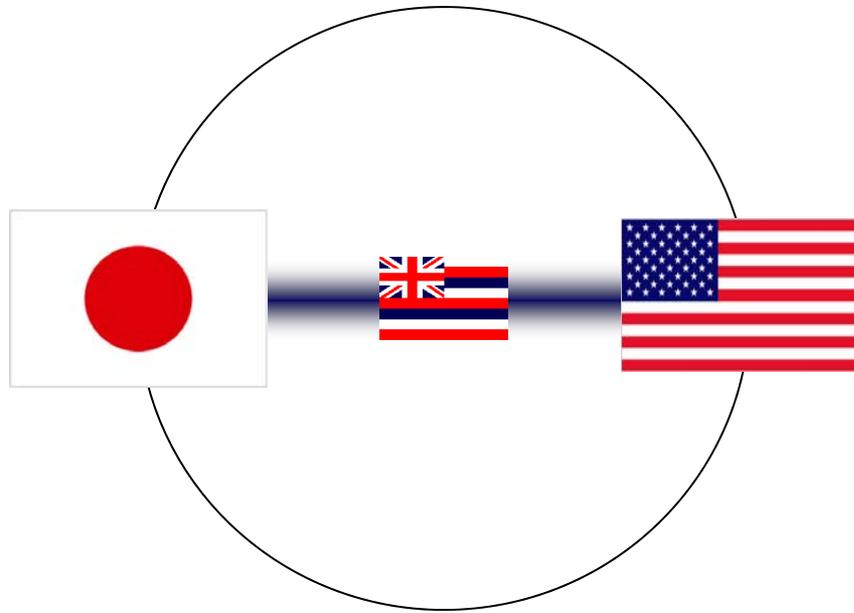
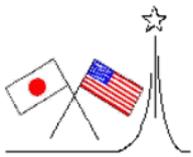


# The Japan-U.S. Space Alliance

## *The View from the U.S. “A Binary Star”*



**November 9, 2009**  
***Frank Schowengerdt***  
***JUSTSAP Vice-Chair***

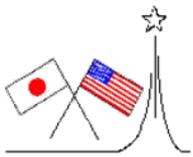


# Origins

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## ***From the JUSTSAP Website:***

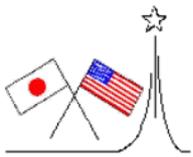
**“Established in 1990 under the aegis of the U.S.-Japan Leadership Council, JUSTSAP is a unique forum of distinguished scientists, educators, government officials, and business professionals dedicated to identifying and exploring innovative opportunities for international collaboration in space exploration.”**



# Projects

## *The Distinguishing Feature*

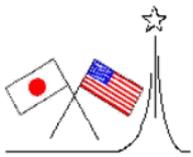
- **JUSTSAP is not just another space conference.**
- **We are focused on real projects that can attract funding.**
- **Examples:**
  - 1. first trans-Pacific high data rate (155 mbps) satellite-fiber optic communications bridge between Japan and the United States**
  - 2. microgravity experiments aboard the U.S. Space Shuttle to test the efficiency of manufacturing new products in a zero-G environment**
  - 3. networking to support collaborative disaster management protocols throughout the Asia-Pacific Region**
  - 4. annual University Space Systems Symposium**
  - 5. Pacific International Space Center for Exploration Systems (PISCES)**



# Bi-Lateral Collaboration

## ***The Bedrock of JUSTSAP's Success***

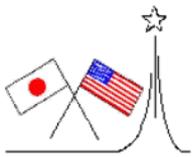
- **It has served us well for almost 20 years.**
- **It is a model of bi-lateral cooperation in science, technology and space applications.**
- **It was established in an era when there were only a few countries, including Japan and the U.S., with active space programs**
- **There were no entrepreneurial space companies.**
- **Commercial utilization of space was just beginning, with the building of the International Space Station.**



# The New Space Age

## *What's Changed Since 1990*

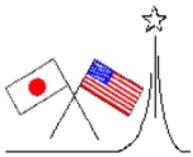
- **Now there are many countries with active space programs.**
- **Of the countries with current Moon missions, five are located around the Pacific Rim.**
- **There are scores of entrepreneurial space companies, tourism is building and prizes are being offered for commercial lunar missions.**
- **The Space Station's life will be extended to 2020 and perhaps 2025, offering ample opportunity for microgravity, commercial and space exploration projects.**



# The New JUSTSAP

## *A New Organization for a New Era*

- All the world's space agencies have organizations and agency-to-agency meetings on a routine basis.
- There is a plethora of international space conferences.
- We don't need another one.
- What is needed is a new JUSTSAP-like organization that can bring together industry, academia and government scientists and engineers, at the working level, to brainstorm new ideas and germinate new projects.
- These projects can then be “shopped” to international space agencies, entrepreneurial space companies and philanthropic organizations for funding.



# Summary

## *“A Bar Spiral Galaxy”*

