ARISS USA Report

ARISS International Delegates Meeting
1 August 2005
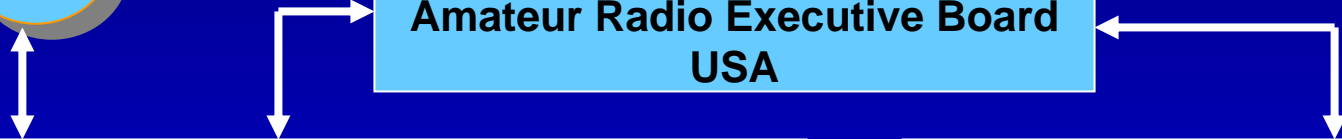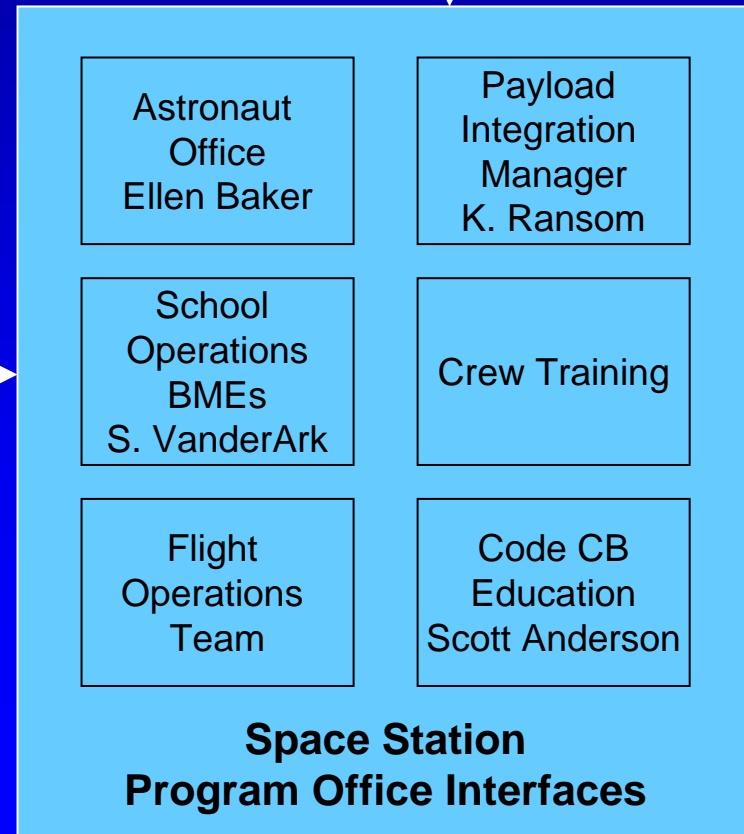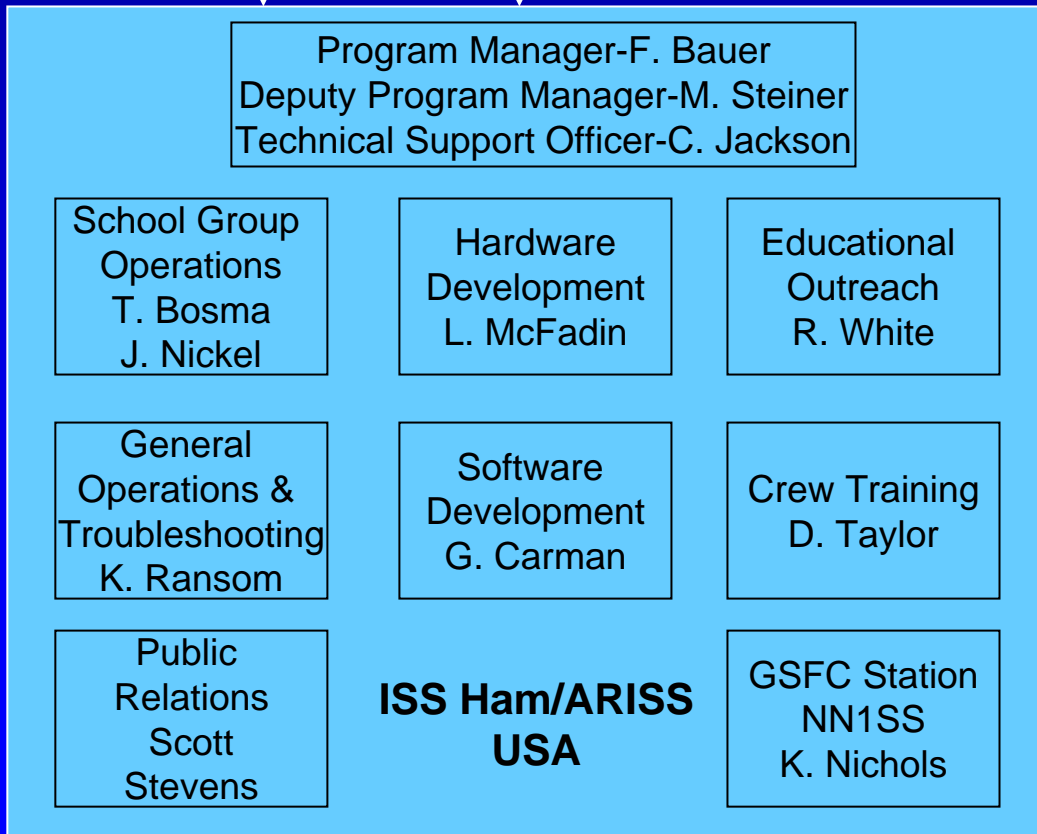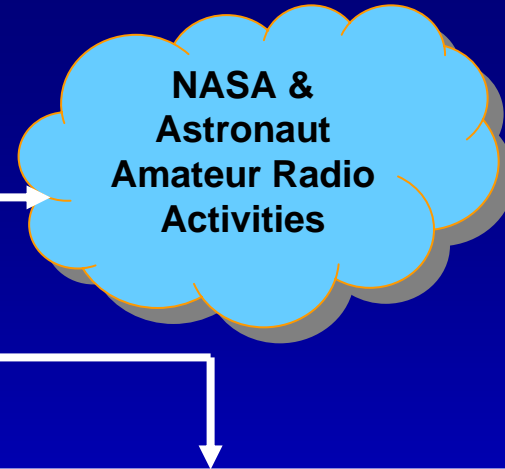
Frank H. Bauer, ka3hdo@amsat.org
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Changes

- Debbie Brown-Biggs left NASA. Replaced with Erika Vick

- New NASA Administrator, Mike Griffin, is radio amateur with callsign NR3A

- Expect significant changes in NASA top leadership in the next several months. This may require additional communications with the new leaders to inform them of our program

Team Interactions

ARISS International

NASA & Astronaut Amateur Radio Activities

Amateur Radio Executive Board USA

- Rosalie White ARRL
- Frank Bauer AMSAT
- Erika Vick NASA HQ

ISS Ham/ARISS USA

Program Manager-F. Bauer
Deputy Program Manager-M. Steiner
Technical Support Officer-C. Jackson

School Group Operations T. Bosma J. Nickel	Hardware Development L. McFadin	Educational Outreach R. White
General Operations & Troubleshooting K. Ransom	Software Development G. Carman	Crew Training D. Taylor
Public Relations Scott Stevens		GSFC Station NN1SS K. Nichols

Space Station Program Office Interfaces

Astronaut Office Ellen Baker	Payload Integration Manager K. Ransom
School Operations BMEs S. VanderArk	Crew Training
Flight Operations Team	Code CB Education Scott Anderson

U.S. Team Major Challenges

Background

- ARISS Budget from NASA obtained from 2 sources
  - ½ from Education Flight Programs
  - ½ from Space Operations (Shuttle/ISS)

Issue

- Lost full funding from Space Operations in 2005 and 2006
  - Return to flight overruns
  - Funding moves from Space Operations to Exploration
- Funding shortage threatened short term (2005-2006) and long term viability of US team's support to ARISS

Current Status

- Most of 2005 funding restored from Education Flight Program office end of fiscal year transfers
  - Received this past week
- Funding to allow full operations until mid 2006
- Long term funding issue still needs to be addressed

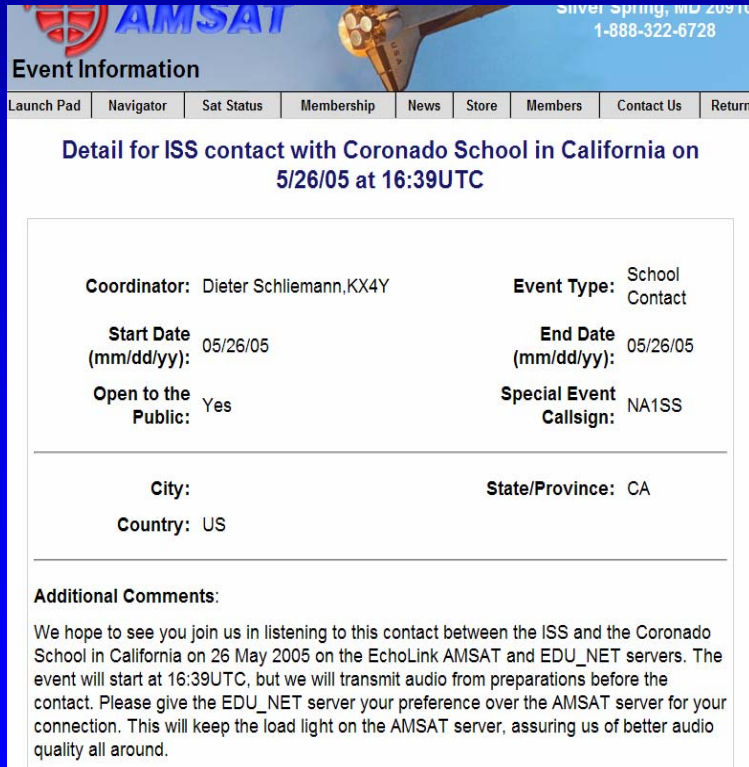# Engagement of NASA Explorer School (NES) Program with ARISS Program

- Discussions with Debbie Brown-Biggs and Peg Steffen (NES Program Manager) has led to a strong partnership with NES program
  - Leverage common NASA Educational Outreach Interests
- To date, two NES/ARISS educational contacts have been performed
- Recently held NES educator workshop to better inform teachers on ARISS
- US team will be placing high priority on future NES school applications

Voice Over Internet Protocol (VOIP)

IRLP, Echolink and Internet Streaming Providing a Wider Reach to Schools and Hams Around the World

Echolink
AMSAT and EDU_NET Servers

IRLP
9010 "Discovery" Reflector

www.amsat.org
Calendar of Events

www.discoveryreflector.ca

School Backlog

Year	Backlog
2001	1
2002	16
2003	8
2004	5
2005	6
Total	**36**

Backup Slides

Discussions with NASA on Expansion of Program Outreach

- Three types of outreach:
  - Internal NASA
  - International Ham Radio Community
  - General Public
- Expansion ideas started or completed include:
  - Weekly status reports to NASA and ham radio community---initiated
  - NASA Lithograph---available
  - Additional school lesson plans—in work

Discussions with NASA on Expansion of Program Outreach (Continued)

- Expansion ideas being discussed/in-work include:
  - School group collaboration through listserv and teleconferences
  - Shorter queues for school contacts
  - More involvement of hams licensed in Aerospace Education Program team doing outreach at schools, businesses and communities
  - Terrestrial contacts with astronauts & engineers
  - New NASA web site for ARISS---will provide ~2 billion hits per year (will supplement existing ARISS web site)
  - Periodic magazine-type articles on the NASA web site

Note: Some of the above will require additional support from NASA

How does Expansion Impact ARISS Team?

- Listserv/school coordination: additional support
- Shorter queues: Development of periodic (yearly?) competitive selection of schools to be offered contact
- Aerospace education program involvement: educating and involving them in our activities
- Terrestrial contacts: team expansion
- Web page development & magazine articles:
  - Requirement for schools to have high quality photography, video & audio from each contact
  - Timely acquisition & archive of release forms for students & teachers so that material can be used on web sites and in articles
  - Team members to write articles and compile information for web site and magazine articles

Note: Some of the above will require additional support from NASA