**ARISS International Monthly Meeting Teleconference**

**June 19 2018, 1100 UTC**

Participants:

Frank Bauer

Gaston Bertels

Jean-Pierre Courjaud

Darin Cowan

Emanuele D’Andria

Shizuo Endo

Bruce Hunter

Bertus Husken

Tony Hutchison

David Jordan

Chet Latawiec

Lou McFadin

Ciaran Morgan

Jan Poppiliers

Kenneth Ransom

Sergey Samburov

Dave Taylor

Rosalie White

Interpreter: Olga Moncuquet

Unable to attend:

Oliver Amend

Fabio Azzarello

Kerry Banke

Armand Budzianowski

Francesco De Paolis

Stefan Dombrowski

Gianpietro Ferrario

Tatiana Kolmykova

Ken Nichols

Keith Pugh

Graham Shirville

Joe Spier

Mark Steiner

Eskil Van Loosdrecht

Satoshi Yasuda

***Meeting Agenda***

**Roll Call—Rosalie White, K1STO**

Rosalie White did the roll call.

**Welcome—Frank Bauer, KA3HDO**

Frank Bauer thanked the ARISS team for all the work they are doing on so many aspects of ARISS. The team is supporting seven hardware projects while other team members are supporting ongoing operations, fund-raising, metrics collection and education. All of this work is greatly appreciated.

**1.      Call for Acceptance of Minutes—Rosalie White, K1STO**

      [Decisional]

Summary: The minutes of the May 15th ARISS-International Monthly Meeting were compiled on June 4 and were distributed to ARISS Delegates on June 18, 2018.

Discussion:  To allow more time for discussions during the June telecon meeting, it was requested that the team read the May minutes after the telecon ends. If a change is needed, please email Rosalie White. If no change is needed, ARISS Delegates should email Rosalie White with their approval of the minutes.

**2.    2018 ARISS-International Face-to-face Meeting—Frank Bauer, KA3HDO**

[Informational]

Summary: The ARISS-US Team has made more progress on handling more details for the October 2018 ARISS-International Face-to-face Meeting to be held in the Washington DC area at the College Park Airport and Museum, in College Park, Maryland.

Discussion:  Frank Bauer emailed an updated planning document about the October meeting. As information files are generated, they will be placed in a Dropbox folder to be established. As the team downloads the files, they should be saved for future reference. Please contact the hotel soon; the special rate for ARISS reservations will be available until September 14.

Please send agenda item ideas for the meeting to Frank Bauer, Oliver Amend, and Rosalie White. Please send travel itineraries and passport information for tour purposes, to Carol Jackson.

**3. Status, Ham Video Test—Gaston Bertels, ON4WF & Oliver Amend, DG6BCE**

[Informational]

Summary: A summary status will be given on the test of the HamTV system and what steps will be taken next.

Discussion: Gaston Bertels related the history, beginning with mid-April when the HamTV unit went silent but appeared to be functioning. On June 1, the crew performed basic tests requested by the ARISS team, and had no definitive outcome.

Gaston Bertels said that Piero Tognolatti has proposed doing a final test to confirm the unit is not working before bringing it back to Earth; pros and cons of this test are being discussed.

CASIS agreed to support bringing the unit back to Earth and re-launching it. ARISS and/or Kayser Italia will test and repair the unit. ESA owns the equipment and ARISS is the custodian. Oliver Amend has submitted paperwork with ARISS’s plan to bring the unit back to Earth to ESA.

Related to the discussion, Jean-Pierre Courjaud prepared a proposal on Ham Video II for the HamTV team to discuss.

**4. Status, ARISS Interoperable Radio System—Lou McFadin, W5DID & Frank Bauer, KA3HDO**

[Informational]

Summary: The hardware team wanted to ensure an excellent result during the final upcoming test of the Interoperable Radio System so they designed a special air duct to help with air flow in the Multi-Voltage Power Supply (MVPS). Because of this change, and having to draw new diagrams for the certification, launch will move from late 2018 to early 2019.

Discussion: Lou McFadin reported that with the completion of the building and testing of the first flight-like Multi-Voltage Power Supply, including the addition of the air duct, the building of more units has begun.

One final safety review of the MVPS is required because of the design change that added an air duct. To allow room to add this duct, it was necessary to move up one fan. Volunteers are doing new drawings but have had not had spare time to complete this work.

Frank Bauer said during the wait for drawing, he and other team members are documenting and reviewing test procedures and documenting the analyses required to pass the safety review. Because of design changes and new drawings, launch will be delayed to no earlier than March or April 2019.

**5. Back-up Packet Module to be Launched—Kenneth Ransom, N5VHO**

[Informational]

Summary: While waiting for final steps to be completed on the Multi-voltage Power Supply, some team members focused on preparing a back-up packet module to launch to the ISS. This unit will allow ham radio operators to enjoy packet APRS once again until the new system is launched. Safety data is being compiled; a late fall launch on a Soyuz is a good possibility.

Discussion: Kenneth Ransom worked on steps needed to launch the packet module. All safety data information was submitted to NASA.

Frank Bauer stated that NASA had defined two engineering requirements that need to be verified before launching the back-up packet module. The two requirements are a check for sharp edges and verification of cleanliness. We are awaiting NASA approval of the ARISS safety paperwork. Lou McFadin and Dave Jordan tested the back-up packet module, and it was shipped to NASA. Once NASA has reviewed and approved the ARISS safety package, they will perform the sharp-edge test and ensure the module passes the cleanliness requirement, and the packet module will be good for launch. ARISS hopes for an October launch so ham radio operators can enjoy packet radio again while the team finishes the new radio system.

Sergey Samburov said that hams will also be able to enjoy Cubesats Tanusha 3 and Tanusha 4 that were developed by ARISS-Russia in collaboration with Southwest State University students in Kursk, Russia. These satellites were already launched to the ISS and tests will be done on June 20-21; hams are invited to listen on 437.05 MHz and also, greetings from students will be transmitted in Russian, English, Spanish and Chinese on 145.80 MHz. Cosmonauts will hand-deploy the satellites in August 2017.

**6. ARISS SSTV Activities—Sergey Samburov, RV3DR**

[Informational]

Summary: SSTV from the ISS continues to be very popular with ham radio operators and more SSTV activities will be sponsored soon, in addition to in the future.

Discussion: Sergey Samburov related that the next SSTV image downlinks are planned for June 29 to July 1, 2018.

The images will commemorate various amateur radio satellites the ARISS team has developed and hand-deployed from the ISS. One to be included will be the first deployment, SuitSat-1/Radioskaf-1, from February 2006. More information will be disseminated.

**7. New Support from Canadian Space Agency – Steve McFarlane, VE3BTD and Chet Latawiec, VE3CFK**

[Informational]

Summary: Chet Latawiec shared that Steve McFarlane, VE3TBD reported new support for ARISS received from the Canadian Space Agency (CSA). CSA will purchase two sets of HamTV reception gear to be used in a coordinated way by ARISS. Equipment specifications given to CSA by ARISS-Canada were written with assistance by ARISS team members in the United Kingdom. The tracking equipment for the HamTV set-ups has already been ordered by CSA. The purchase of the receiver is being held while the ARISS team completes its testing of the HamTV unit on board the ISS. These purchases of equipment are a great sign that CSA is serious about its support of ARISS.

Chet Latawiec will continue to keep the team informed of updates. The new equipment may reside in the centrally located Ontario province, which is also where many ARISS team members live.

**Next Meeting**

The next meeting will be July 17, 2018.

Respectfully submitted,

Rosalie White

June 21, 2018