**ARISS International Monthly Meeting Teleconference**

**July 17, 2018 - 1100 UTC**

Participants:

Oliver Amend

Frank Bauer

Gaston Bertels

Armand Budzianowski

Jean-Pierre Courjaud

Emanuele D’Andria

Shizuo Endo

Gianpietro Ferrario

Bruce Hunter

Bertus Husken

David Jordan

Peter Kolfer

Keigo Komuro

Lou McFadin

Ciaran Morgan

Ken Nichols

Jan Poppiliers

Keith Pugh

Kenneth Ransom

Sergey Samburov

Dave Taylor

Rosalie White

Satoshi Yasuda

Interpreter: Olga Moncuquet

Unable to attend:

Fabio Azzarello

Kerry Banke

Darin Cowan

Francesco De Paolis

Stefan Dombrowski

Tony Hutchison

Tatiana Kolmykova

Chet Latawiec

Graham Shirville

Joe Spier

Mark Steiner

Eskil Van Loosdrecht

***Meeting Agenda***

**Roll Call—Rosalie White, K1STO**

Rosalie White did the roll call and reminded people to ask a speaker to talk louder if they cannot hear.

**Welcome—Frank Bauer, KA3HDO**

Frank Bauer welcomed everyone to the meeting. He said the agenda for this meeting is lengthy, which is because so many ARISS different activities are being done. He thanked the ARISS team for all the work they are doing on so many aspects of ARISS.

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

      [Decisional]

Summary: The minutes of the ARISS-International Monthly Meeting on June 19, 2018 were compiled on June 21 by Rosalie White and were distributed to ARISS Delegates on July 9, 2018. No comments were received in regard to the minutes.

Discussion:  Gaston Bertels moved to accept the June minutes and Bertus Husken seconded the motion. Delegates approved the minutes. Carol Jackson will upload the file of minutes to the ariss.org site.

To allow more time for discussions during the June telecon meeting, Frank Bauer requested that Delegates read the May meeting minutes after the telecon and vote on them via email. Rosalie White handled the process of asking the team to vote on the minutes for May, tallying replies, and reminding Delegates to get their votes cast. She received a quorum of aye votes by July 2, 2018 and emailed the team to state that the May minutes were approved. The May minutes are posted on the ariss.org site.

**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 on July 16, 2018 about the October meeting. The document lists a URL for a Dropbox folder. Information files will be placed in this Dropbox folder. As the team downloads the files, they should be saved for future reference.

Hotel rooms should be booked now in order to receive the special ARISS rate before it is no longer offered—after September 12, 2018. People can cancel the hotel room a few days beforehand if they find they cannot come to the meeting.

Attendees should email travel itineraries to Carol Jackson. Heightened security is everywhere, including at NASA; passport information is required to attend the tours. Those wanting to go on the NASA tours need to send passport information to Carol Jackson by the end of August.

Please send agenda items to Frank Bauer, Oliver Amend, and Rosalie White who are preparing the agenda. Team members should suggest locations for the 2019 ARISS International face-to-face meeting.

**3. Status, Ham Video—Oliver Amend, DG6BCE**

[Informational]

Summary: The team has received permission to bring the Ham Video unit back to Earth for troubleshooting.

Discussion: Oliver stated that as reported some months ago at ARISS-International meetings, transmissions were not being received by the team from the HAM Video system on *Columbus*. Investigations, including with crew support, did not identify the root cause of the issue.  
  
For a more detailed investigation, it is planned that the HAM Video unit will be returned to the ground. This is currently targeted for SpaceX 16, with unberthing from ISS to be January 2019. Arrival of hardware in Europe and unpacking is expected in the beginning of April 2019. ARISS is very happy to report that download costs will be covered by CASIS/NASA. Investigation, repair, and re-certification will be studied and the recommendation process will be led by the ARISS-International Technical and Evaluation Support Committee followed by a vote by ARISS Delegates.

**Important**: *Only repairs are planned*. There will be no modifications or new features added to the existing HAM TV unit as this would result in a much more intense, very time-consuming, and an expensive all new re-certification process. The NASA reflight safety process will be performed by ARISS. The tentative "best case" for launch back to Columbus would be in Quarter 4 of 2019. Funding and support for the tests, repair, and re-certification by industry is being studied.

Note: The investigation of the failed HamTV unit is very important to the ongoing plans for a new Ham TV Mark2 unit as well as for any Lunar Orbiting Platform-Gateway (LOP-G) Payload (formerly named "Deep Space Gateway--DSG").

**4. Update, ARISS Packet – Frank Bauer, KA3HDO**

[Informational]

Summary: Members of the hardware team prepared a back-up packet module to launch to the ISS, and Frank Bauer handled the paperwork required for re-certification. It is hoped that the back-up packet module can be launched in late fall to allow hams to enjoy ARISS packet APRS again.

Discussion: The ARISS team led by Frank Bauer has completed all paperwork that was needed for flight. The paperwork was submitted, and a response from NASA will be received soon.

The plan is for the packet module to fly to *Columbus* on 71P that will launch at the end of October 2018. The hope is to have packet operational again in November 2018 for all ham radio operators to enjoy again.

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

[Informational]

Summary: Many hams worldwide are always interested in downlinked SSTV images. The images transmitted between June 29 and July 1, 2018 and then extended for further days, attracted the attention of many hams; over 4,000 images were posted to the ARISS web site.

Discussion: Sergey Samburov had to leave the telecon meeting unexpectedly, and was not able to expound further on this topic.

**6. Update, SSTV Awards—Armand Budzianowski, SP3QFE**

[Informational]

Summary: Downloading SSTV images is very popular with amateur radio operators worldwide and they are very glad there are handsome awards to earn. The awards are thanks to Armand Budzianowski and his team.

Discussion: Armand Budzianowski reported that the most recent award application window closed on 9 July. Many radio amateurs all over the world emailed thank you messages and warm words to the awards team. 1,057 applications were received and 1,010 diplomas were awarded. 10 applications came from Africa, 162 from Asia, 23 from Australia, 440 from Europe, 160 from North America, and 260 from South America.  
  
The diploma shows SuitSat and a Tanusha satellite, Russian scientist and space flight theoretician Konstantin Tsiolkovsky of Polish origin, Russian cosmonaut Oleg Artemyev with the Chasqui–1 satellite, and logotypes of Energia, the Polish Amateur Radio Union—PZK, ARISS, NASA, CASIS, and ISS Expedition 56. The award was prepared by Slawek Szymanowski, SQ3OOK, who also did a great deal of work reviewing applications and sending the awards.  
  
Armand Budzianowski said it was a pleasure to work with Sergey Samburov and Frank Bauer who are committed to offering the awards, along with the great support of so many others. Oliver Amend is chair of the ARISS-International Awards Committee and members are: Armand Budzianowski, Francesco DePaolis, Tatiana Kolmykova, Bruce Hunter, Shizuo Endo, and Darin Cowan. The award site URL is: [https://ariss.pzk.org.pl/sstv/](https://exchange.arrl.org/owa/redir.aspx?C=SaaXV7mBsO1niPsxXFPeukXqpgtABU0bdhSKo0K_vUY__g7e2OvVCA..&URL=https%3a%2f%2fariss.pzk.org.pl%2fsstv%2f)

Frank Bauer thanked everyone on the team for all of their hard work. Bruce Hunter thanked the Polish team and reported that his wife, Christy Hunter, KB6LTY, had downloaded the images, received the award, and was greatly pleased. Oliver Amend said schools that will have ARISS contacts with Alexander Gerst are downloading the images in order to test their equipment.

**Ad hoc**

MarconISSta Safety Data Approved, Equipment Onboard

The MarconISSta experiment equipment developed by Technical University Berlin / Martin Buscher, DJ1MBB, was flown on Orbital’s OA-9 launch in early July 2018, and is stowed on *Columbus.* The integrated ARISS ham radio and MarconISSta experiment safety documentation for operations was generated and submitted by ARISS on 12 June. NASA’s approval for operations of the equipment was received on 5 July. Final ESA Crew Procedure reviews are expected to begin this week; ARISS inputs have been provided.

Installation procedures will be uplinked to the crew in the beginning of August 2018. MarconISSta hardware installation and experimentation should begin in the end of August depending on available crew time.  
  
ARISS is pleased to support MarconISSta and to give the experiment access to the ARISS equipment. Experiment data will be shared with ARISS and a handover of MarconISSta equipment to ARISS is planned for after the experiment ends.

Lou McFadin said after the handover, ARISS can use the equipment for amateur radio experiments. Team members should think of experiment ideas and submit them. A group will be set up to discuss the ideas. Oliver Amend reminded the team that the Lime SDR equipment is a receive-only unit.

Frank Bauer mentioned that ARISS will discuss ideas at the face-to-face meeting and prepare an agreement on experiments to try. Team members can think of ideas for school participation. An interesting experiment would be recording activity before, during, and after ARRL’s Field Day in North America. Rosalie White suggested that recording activity before, during, and after the DX Tests would allow ARISS to attract the attention of worldwide hams who have HF equipment.

Protecting Data

Oliver Amend reminded the team to carefully protect ARISS data, and protect their own information, for instance, about travel to the USA meeting. Frank Bauer said we must be careful of things we might not consider, such as the students’ questions uplinked to the ISS. This kind of information may be considered a valuable resource by a company who hopes to make money from working with the data. If team members get a request for a lot of ARISS information of any type, bring the request to the ARISS officers: Frank Bauer, Oliver Amend, or Rosalie White

ARSS-US Technical Mentor Lead

Frank Bauer stated that there is a new ARISS-US position—ARISS-US Technical Mentor Lead. The duties are to help have even more effective US school contacts and be the liaison for mentors to the ARISS-US Education Committee. The person named to the position is John Kludt, K4SQC.

**Next Meeting**

The next meeting will be August 21, 2018.

Respectfully submitted,

Rosalie White, K1STO

ARISS-International Secretary-Treasurer