

**Minutes of TC-10 Waveform Recorder Subcommittee Meeting of  
February 20, 2007 in Gaithersburg, Maryland**

**Attendance:**

|                      |                                |
|----------------------|--------------------------------|
| Tom Linnenbrink      | Hittite Microwave              |
| Jerry Blair          | National security Technologies |
| Sol Max              | LTX Corporation                |
| Bill Boyer           | Sandia (retired)               |
| Bob Graham           | Sandia                         |
| Fang Xu              | Teradyne                       |
| Nick Paulter         | NIST                           |
| David Bergman        | NIST                           |
| Don Larson           | NIST                           |
| Francisco Alegria    | Tech. Univ. of Lisbon          |
| Paqsquale Daponte    | Univ. of Sannio                |
| Eulalia Balestreiria | Univ. of Sannio                |

**1. Agenda**

The intended agenda was to discuss feedback from the IEEE on the draft submitted, but they had not provided any by the time of the meeting.

**2. Report from Bill Boyer on the balloting process.**

- The balloting version was put on the web and submitted to IEEE. The IEEE will edit it, and we will have to fix their edits. We will have a short time to do this. (NOTE: As of the publishing of these minutes (3/20/07) we have gone through a few iterations, and what is believed to be the final version to be balloted on is on the web site and has been submitted to the IEEE.)
- Path to the balloting version. A version was sent out around the 1<sup>st</sup> of December, and many comments were received right after Christmas. There have been two iterations since then.

**3. Errors in draft discussed in meeting**

- A typo in equation (45) was fixed.
- On 149 (Appendix C) there is a reference to C-5 that should be to C-2.
- There was a discussion concerning equation A-10 (and similar ones) for converting from sine and cosine coefficients to amplitude and phase. A minus sign appeared in the equations that was correct, given the definition of phase angle, but differed from equations appearing in other publications. To decrease confusion we will remove the term "polar" the description. We will also change all similar equations to use the arctangent function with two arguments.

- The captions in figure 11 need to be made larger.

#### **4. Balloting committee.**

Instructions were given for joining the balloting committee and all present were encouraged to do so.

#### **5. Known problems**

There were a few imperfections noted that may have to be changed as a result of the balloting:

- Tom Linnenbrink pointed out that Clause 4.7 uses "topline," "baseline," and "precursor" instead of the current terminology in Standard 181.
- The term LSB has several different uses in the standard.
- In the caption for figure 19 the term LSB is used in a particularly novel way.