

Minutes

Satellite and Space Communications (SSC) Technical Committee Meeting at ICC'99

8 June 1999
Crystal Pavilion B, Pan Pacific Hotel
Vancouver, Canada
Dr. Ron Smith, Secretary

1. Call to Order

The meeting was called to order by the SSC TC Chair Walter Ciesluk at 7:45 AM.
Attendees introduced themselves.

2. Acceptance of Agenda

The agenda was presented by W. Ciesluk and is reflected in the outline of the minutes.

3. Acceptance of Minutes of the Last Meeting

The minutes of the last meeting held during Globecom'98 in Sydney, Australia were presented and accepted.

4 Subcommittee Reports

(1) ICC'99 (Vancouver, Canada), W. Ciesluk reporting

SSC TC has sponsored one session on Satellite Communication System Design, co-sponsored with Personal Communications Systems (PCS) TC one session on Network Handover, one Tutorial on Satellite Communications and one Workshop on Satellite Architecture and Networks (45 to 50 people).

(2) GLOBECOM'99 (Rio de Janeiro, Brazil), R. Smith and W. Ciesluk reporting

Globecom'99 will have a multiple symposia structure plus general conference. SSC is involved in the Future Wireless Communication Systems Symposia (R. Smith, rep) plus General Conference (Dr. Sastri Kota is current rep, Dr. Satchandi Verma was former rep). Also, one BAS session on Satellite Communication in Latin America (W. Ciesluk, rep) is very well organized at this time with representatives identified from many of the major Latin American satellite communications entities. The BAS session will include an overview, presentations from the representatives and a discussion period.

(3) MILCOM'99 (Atlantic City, USA), R. Smith reporting

SSC has two to three sessions planned for the unclassified program based on 18 abstracts and rough draft papers (Mary Williams and R. Smith, reps).

(4) ICC'2000 (New Orleans, USA), W. Ciesluk reporting

The SSC representatives are Eric Butner and M. Williams. First TPC meeting is this afternoon.

(5) GLOBECOM'00 (San Francisco, USA), W. Ciesluk reporting

TPC first meeting was yesterday. Debate over conference structure was active. TPC chair decided to use multiple symposia structure, but it is the responsibility of the TC's to propose and organize the symposia or else the structure will revert to a general conference structure. SSC and Communication System Integration and Modeling (CSIM) TC will prepare proposals for a symposium and workshop on Future Satellite Communication Systems (Sastri Kota, rep). SSC needs to solicit papers from industry to make this successful. Dr. Marc Engels will be the representative for the general conference, Bert Gyselinckx covered the meeting for him at this conference.

A discussion ensued about recent and planned publications and standards activities relating to satellite communication. Sastri Kota reported on a Special Issue of the Communication Magazine concerning ATM over Satellites plus wide band performance. The ITU-4 is looking at IP over satellite. There is a recommendation covering Ka band performance. Also, there is a lot of work recently on mobile satcom and the air interface.

(6) MILCOM'00 (Los Angeles, USA), W. Ciesluk reporting

In the past SSC has had a mostly passive role in Milcom. Recently the conference has become more international and SSC has been more active in organizing sessions. R. Smith will be the SSC representative for Milcom'00.

5. New and Old Business

(1) SSC Recertification

The SSC TC has been recertified by the IEEE ComSoc TCRC. The question of viability of the various TCs has been and continues to be scrutinized.

(2) Proposed Committee Structural Changes

It was proposed and approved to create a new office for the committee titled Historian and Louis Pollack was appointed to that position. Mr. Pollack's help with a recent article describing the SSC was noted (April issue of the IEEE Communications Magazine). Dr. Desmond Taylor was appointed Advisor to fill the position now vacated by L. Pollack.

(3) Long Term Planning

W. Ciesluk will document long term and near term SSC goals to help guide future officers. Some suggested goals are to have at least one session at every Globecom, ICC and Milcom conference; at least one SAS proposal at every Globecom and ICC; biannual feature topic proposals to the Communication Magazine and the Journal on Selected Areas in Communication (JSAC); and to encourage global industry participation in all activities. It was noted that the TCRC will try to be a consulting resource for cross-committee participation.

(4) Strengthening Ties with other Committees

SSC currently has ties with the CSIM TC. We plan to monitor activities of the PCS and Multimedia and Tactical Communications TCs to identify opportunities for joint activities with SSC.

W. Ciesluk stressed the importance to SSC of being involved in Satellite Communication activities of sister societies such as the AIAA. The AIAA International Communication Satellite Systems Conference (ICSSC) was noted to be a premier satellite communications conference that SSC should participate in. AIAA plans to change ICSSC from biannual to annual, this will require significant additional work with which SSC should be able to assist. R. Smith is the SSC liaison to AIAA and is a member of the steering subcommittee of the AIAA Technical Committee on Communications Systems (TCCS) which organizes the ICSSC. The next ICSSC is scheduled for April 10-14, 2000 in Oakland, California.

(5) Sponsors and/or Support of Relevant International Conferences

At a Wireless Communications conference in October, Marc Richard will chair a session organized by S. Verma.

At a Seattle Mobile Communications conference S. Kota will speak on Future Systems.

W. Ciesluk will try to compile a list of these activities with which SSC members have been involved, members will be solicited for inputs.

(6) Open Liaison Positions

International Journal of Satellite Communication (W. Ciesluk has info)

ITU development organization working on rural communications around the world (W. Ciesluk has info)

Several European Science and Technology committees exist, (Istvan Frigyes will send information to R. Smith)

Ka Band Utilization Conference (S. Kota has info)

Pacific Telecommunications Council [business, regulatory issues], contact to establish liaison position is Richard Barber (R. Smith will send e-mail to D. Taylor for more info)

(7) SATCOM Special/Feature Topic Issues

IEEE Communications Magazine

S. Kota has put together at least two topics in the past, one to be published in July 1999. Marie-Jose Montpetit has organized one topic within the last two years. Michael Enoch has proposed a topic of Free Space Satellite Communications. SSC encourages more proposals to the IEEE Communications Magazine.

Journal on Selected Areas of Communication

JSAC had a recent issue on Ka Band with which SSC was not involved. D. Taylor is on the JSAC board and will help SSC become more involved by previewing proposals and helping SSC members become Guest Editors.

Instructions for proposals are on the web. To succeed, a proposal needs a good set of Guest Editors plus a viable topic.

International Journal on Satellite Communication

SSC is seeking someone to become involved with the International Journal on Satellite Communication, published in Europe, possibly an editorial staff role or by submitting articles. This is an open position that SSC would like to fill.

(8) SSC Newsletter

SSC publishes a newsletter biannually (coincident with Globecom and ICC), advertising the activities of the committee. In the past it has been prepared by Dr. Hiroshi Kazama. The SSC Secretary, R. Smith is the current editor. The Message from the Chair section publicizes and recognizes recent committee member activities, the Scanning the World section is written by the Vice-Chair providing a survey of recent developments in the field, other sections include a conference calendar and letters to the editor. Please submit letters to the editor by the end of October for the next issue, to be distributed at Globecom'99.

The revised SSC web site was described. It includes the schedule for our next committee meeting, membership list (please keep your e-mail address current), a list of reviewers for conference papers and articles, and a list of representatives and liaisons to various committees and publications.

(9) Membership Goals and (10) Recruitment of New Members

The SSC is attempting to increase the number of active participants and improve the cross-section of members by increasing satellite communications industry participation. W. Ciesluk is preparing a letter for this purpose, to be distributed within the next six months to satellite communications industry companies at the Director of Engineering level. Assistance in compiling a list of addresses is requested, particularly outside of North America.

6. Time and Place of Next Meeting

Globecom'99, Rio de Janeiro, 7:30 AM to 9 AM, second day of technical conference, 7 December 1999.

7. Adjourn

The meeting was adjourned at 8:50 AM. 17 persons were in attendance.

Attendance List:

<u>Name</u>	<u>Affiliation</u>	<u>E-mail address</u>
Walter J. Ciesluk	The MITRE Corporation	wciesluk@mitre.org
Jeff Evans	Georgia Tech Research Institute	jeff.evans@gtri.gatech.edu
Istvan Frigyes	Budapest Technical University	t-frigyes@nov.mht.bme.hu
Leonard S. Golding	Hughes Network Systems	golding@hns.com
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Joe Meyer	DoD	
Fernando Nunes	IST, Portugal	nunes@blue.lx.it.pt
Abbas Sandouk	Nagoya University	abbsan@ieee.org
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Dr. Desmond P. Taylor	University of Canterbury	taylor@elec.canterbury.ac.nz
Hong Xiao	Sydney University	hxiao@ee.usyd.edu.au

Appendices (received after the meeting)

Appendix A. European Science and Technology Projects, I. Frigyes reporting for item (6)

COST 255 (close to its end) Radiowave propagation modeling for new SatCom services at KU band and above. Chairman of the Management Committee is Bertram Arbesser-Rastburg from the ESA (you may know him). His e-mail address is bertram@xe.estec.esa.nl.

COST 252, I don't know the exact title, it deals with "2nd-to-3rd generation in satellite networks", chairman is Prof. del Re from Italy, I don't know his coordinates.

COST 253, "Service-efficient network interconnection via satellites", Chairman Gerard Maral, ENST Toulouse, France. You can find COST on the Internet.