

IEEE CAS Power Systems and Power Electronic Circuits Technical Committee

Minutes of May 8, 2001 Committee Meeting
Sydney, Australia

The Power Systems and Power Electronic Circuits Technical Committee (PSPECTC) met on May 8, 2001 during ISCAS'01. Committee Secretary Ian Hiskens chaired the meeting in the absence of Chairman Alex Stankovic.

1 Introduction

The Secretary opened the meeting at 1300 and welcomed attendees. A round of introductions followed. An attendance sheet was circulated, Attachment 1.

2 Approval of Minutes

The minutes from the meeting in Geneva at ISCAS'00 were approved.

3 Chairman's Report

Publications in *IEEE Transactions on Circuits and Systems I*. Ten papers and transactions briefs relating to PSPECTC have been published. Thirty six manuscripts have been submitted to the two Associate Editors charged with this field (4 regular and 2 short papers have been accepted, 3 were rejected and others are under review).

ISCAS'01. A special track (No 9) is dedicated to "Power systems and power electronic circuits". The track includes three special sessions: "Modeling, simulation and design of power systems", in two parts, organized by Alberto Reatti and Marian Kazimierczuk with 11 papers, and "Complexity in power systems" by Ian Hiskens with 4 papers. In addition, there are 24 regular papers in 5 sessions.

One of the main challenges of power electronic systems is their hybrid discrete/continuous structure caused by the power electronic switchings and controllers. Contacts have been made with the Hybrid Systems Committee of the Control System Society (Michael Branicky, Chair) to organize a joint session on "Hybrid Systems in Energy Conversion" at CDC'02, possibly followed by a workshop before ISCAS'03.

The committee web-page is currently being updated.

Our technical committee serves the scientists and engineers working in the analysis and design of power electronic circuits and power systems, and brings to the attention of the CAS society problems arising in those areas. The committee serves as a bridge between the CAS Society and the CSS, PES and PELS societies.

Alex Stankovic, Chair

4 Report from Meeting of TA/TC Chairs

A meeting of TA and TC Chairs was held in conjunction with ISCAS'01, on Friday, 4 May at 1630. Chika Nwankpa attended on behalf of the PSPECTC.

Two new technical committees, in the areas of Nanoelectronics and Blind Signal Processing, have been created.

The TC Chairs will be responsible for wording the Call for Papers for ISCAS'02 and ISCAS'03.

The bylaws of all TCs should be documented, and made available on TC websites.

TCs should be publicizing their activities, possibly through short courses.

TCs should select benchmark papers that describe the major contributions to their technical area over the last five years.

Publication of state-of-the-art articles in the *Circuits and Systems Magazine* is encouraged. These articles should aim at a layman audience.

There was a motion to have two meetings of the TCs per year; one at ISCAS and the other at the ISCAS Technical Program Committee meeting. These meetings would occur around May and December of each year.

TCs should nominate appropriate people for the CAS Distinguished Lecturer Program.

5 Election of Officers

Marian Kazimierzczuk is the incoming Chairman of the PSPECTC. His term runs through to the end of ISCAS'02. An election was held to determine the Chairman-elect, who will become Chairman from ISCAS'02 to the end of ISCAS'03. The PSPECTC has a policy of alternating the chairmanship between the power electronics and power systems communities. Ian Hiskens was the sole nomination, and was duly elected.

The position of Secretary has a two year term. Ian Hiskens will remain in that position until ISCAS'02.

6 Special Sessions at ISCAS'02

Marian Kazimierzczuk agreed to organize a special session focussing on power electronics.

Alex Stankovic and Ian Hiskens will organize a special session around the theme of switched systems. Depending on interest level, this may lead on to a workshop at ISCAS'03.

A copy of proposals should be forwarded to the Secretary in due course.

7 Other Business

It was pointed out that only members of the CAS society can vote at TC meetings and be elected as office bearers.

8 Conclusion

The Secretary, on behalf of the Chairman, thanked the attendees for their participation, and closed the meeting at 1330. The next meeting will be held in Scottsdale, Arizona, in conjunction with ISCAS'02.

Minutes taken by Ian Hiskens

Attachment 1

Attendance list

Dariusz Czarkowski	dcz@pl.poly.edu
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