

IEEE Solid-State Circuits Society
Administrative Committee Minutes
Monday 28 August 2006
Marriott Château Champlain, 1 Place du Canada,
Montreal, QC H3E 1Y2

Next meeting: Sunday, 11 February 2007
at the San Francisco Marriott Hotel, Fourth Street
San Francisco, CA

PART A: SUMMARY OF MOTIONS AND ACTIONS

MOTIONS

1. Decisions voted on 28 August 2006:

Motion 1: To approve the minutes of 5 February 2006. The motion passed.

Motion 2: To overlap the inclusive dates of each DVD disk, filling the first through 1997, and filling the second starting from 1996. The motion passed.

Motion 3: To join the Nanotechnology Council at a cost of \$5K. The motion passed.

Motion 4: To distribute the Nanotechnology Council magazine to the entire SSCS membership for a trial period of one year at a cost of \$2 .00 per member for the year . The motion passed.

Motion 5: To advance \$40K for the 2007 Symposium on VLSI Circuits. The motion passed.

Motion 6: To be technical cosponsor of the following 12 conferences:

DAC 2008
DATE 2007
ICCAD 2007
ICUWB 2007
RFIC 2007
ESSCIRC 2007
ISLPED 2007
CSICS 2007
BCTM 2007
TSA-VLSI 2007 (Both Technology and DAT)
VLSI Design 2007
Organic Microelectronics Workshop 2007

The motion passed.

Motion 7: To allot \$2,500 for the trans-Pacific round trip airfare of each participant in the Far East DL Tour in November 2006. The motion passed.

PART B: MEETING MINUTES

1. WELCOME AND INTRODUCTIONS

Richard C. Jaeger

The meeting was called to order by SSCS President Richard C. Jaeger at 1:00 p.m.

2. SECRETARY'S REPORT

David Johns

A. Roll Call

a) Voting members present (18)

Bryan Ackland	Dick Jaeger	Akira Matsuzawa
Bill Bidermann	David Johns	Un-Ku Moon
Terri Fiez	Rakesh Kumar	Willy Sansen
Wanda Gass	Thomas Lee	Jan Van der Spiegel
Bruce Hecht	Domine Leenearts	John Bulzacchelli for C.K. Ken Yang
Paul Hurst	Steve Lewis	Ian Young

b) Voting members absent (8)

Gary Baldwin	Dave Hodges	Jan Sevenhans
Anantha Chandrakasan	Jan Rabaey	Mehmet Soyuer
Ali Hajimiri	Takayasu Sakurai	

(c) Additional Attendees (9)

Mary Lanzerotti	Katherine Olstein	Lew Terman
K. Nagaraj	Anne O'Neill	Tim Tredwell
Bram Nauta	Larry Starr	C.K. Wang

B. The minutes of the 5 February 2006 meeting were posted on the Web in September.

Motion 1: To approve the minutes of 5 February 2006. The motion passed.

3. TREASURER'S REPORT

Rakesh Kumar

The net surplus of the Society is expected to reach \$386K this year and \$457.8K in 2007, with 2007 reserves topping \$4 million (a record). The 2007 budget include substantial increases for chapter and DL activities, and Administrative Committee travel. The lion's share of the revenue comes from Journal downloads conferences, and conference publications. Since TAB's algorithm is not expected to change, and unless downloads decline, the Society's challenge will be to broaden the uses of its funds to benefit the membership.

4. PUBLICATIONS COMMITTEE REPORT

A. JSSC Page Count K. Nagaraj
 The JSSC page count through August will be 1986; the page count at year-end is expected to approach 3000, as budgeted.

B. DVD Disk Format K. Nagaraj for Bernhard Boser
 The DVD set currently holds JSSC papers on one disk and conference papers on the other. The AdCom endorsed a different layout that will reduce the number of links between disks. The links from the older disk to the newer one will be practically 0 while the links from the newer disk to the older disk will be 2/3 of the number of links between the two in the current version.

Motion 2: To fill one disk with JSSC and conference contents through 1997, to fill the other disk with JSSC and conference papers starting in 1996, overlapping the inclusive dates of each. The motion passed.

C. JSSC Editor's Report K. Nagaraj

Actions On Papers

	Jan-June06	Jul-Dec 05
TOTAL	169	170
ACCEPTED	37	36
REJECTED	48	32
REFERED	25	32
UNDER REVIEW	59	

New Associate Editors: Michael Flynn, Derek Shaeffer, Shen-Iuan Liu Philip Mok

Retiring Associate Editors: Paul Hurst, Ali Hajimiri, Iuri Mehr, Bram Nauta

Delays

	Jul-Dec 06	Jan-Jun06	Jul-Dec 05
FIRST ACTION	87	84	85
AUTHOR REVISION	75	89	75
PUBLICATION	145	156	124
TOTAL	317	335	295

A. INTRODUCTION/SUMMARY

Preceding the AdCom the attached Straw Man document was circulated to AdCom members to help initiate this discussion.

Seven of the eight new IEEE publications under consideration by TAB do not touch upon our area much, but CAS proposed new Transaction on Emerging and Selected Topics in Circuits and Systems represents a lot of overlap with JSSC. Although not approved for launching, the proposed scope was :

Contributed papers should relate to the analysis, design, implementation, or simulation of practical integrated circuits that perform RF, analog, mixed-mode, or digital signal processing, or should be of broad interest to the designers of such circuits.

Detailed analyses and theoretical results are appropriate, but they should relate specifically to the implementation of integrated circuits or to particular integrated circuit applications.

Experimental results are appropriate provided they are accompanied by fundamental, as opposed to incremental, analytical advances in the design of circuits and systems.

Contributed papers must either provide original new results or a comprehensive tutorial treatment of a relevant topic.

For the sake of expanding our audience and becoming proactive, the AdCom should consider alternatives to remaining a single publication society.

Jaeger then opened the floor for discussion.

B. DISCUSSION

The discussion will be reported in separate correspondence.

C. IEEE NANOTECHNOLOGY COUNCIL AND MAGAZINE

The IEEE Nanotechnology Council is a multi-disciplinary group whose purpose is to advance and coordinate work in the field of Nanotechnology carried out throughout the IEEE in scientific, literary and educational areas. The Council, which supports the theory, design, and development of nanotechnology and its scientific, engineering, and industrial applications, is currently made up of 20 member societies including EDS, CAS, EBMS and LEOS. Their new Transaction is successful, highly cited and downloaded.

Motion 3: To join the Nanotechnology Council at a cost of \$5K. The motion passed.

SSCS will need to appoint a representative to the Council.

The scope of the proposed Nanotechnology Magazine will include the physical basis and engineering applications of phenomena at the nanoscale level across all areas of science and engineering. This new magazine, unanimously endorsed by TAB, will introduce the SSCS community to an important emerging specialty at minimal cost.

Motion 4: To distribute the Nanotechnology Council magazine to the entire SSCS membership for a trial period of one year at a cost of \$2 .00 member for the year. The motion passed.

D. SSCS QUARTERLY NEWS

Mary Y. Lanzerotti

The debut issue of the full—color, magazine-style SSCS Quarterly News dated September 2006, which introduces technical highlights and overview articles, is being mailed to the entire membership. In 2007, winter, spring, summer and fall issues will be distributed likewise, both in print and online. Associate editors in each IEEE region are sought to identify local IC projects and events of interest to the readership.

6. IEEE INFRASTRUCTURE REORGANIZATION

Lew Terman

Terman reported on the work of a Technical Activities Finance Committee AdHoc Committee analysis of Infrastructure Reorganization. See the attached presentation.

Introduction

Current indirect infrastructure charges are based on revenue from member dues. It funds EAB, RAB, Spectrum, the cost to administer dues and IEEE-USA infrastructure expenses. Member dues revenue is a stagnant stream today while packaged product revenue is climbing.

The AdHoc committees advises that TAB develop and propose to IEEE Finance Committee a solution that satisfies 3 constraints:

1. Remove TAB and SA from dealing with infrastructure
2. Put TAB revenues and expenses under the control of TAB
3. Find a way to fund the rest of IEEE

New Infrastructure Fund Methodology

- Infrastructure Fund (IF) Revenue Stream

Will be funded by a fixed percentage of package product revenue and IEEE dues.

The revenue algorithm, which is currently membership-based, will become IEL hits-based. It will pay for all OU's currently under the 90% rule, and the corporate indirect infrastructure. SSCS will gain \$34K.

- Infrastructure Reserve Fund (IRF)

Will be created with \$2M from RAB and TAB reserves each, plus \$16M from OU's with reserves, in proportion to their share of the total reserves, and sustained with unused IF revenues. The IRF will pay for major developmental items like BMS, not for on-going operational activities. The IEEE Business Management System (BMS) will replace the IEEE's core business systems combining information from various databases including: membership, subscription fulfillment, and other databases into one main repository. Upon its 2007 launch, BMS will offer a comprehensive 360-degree view of all the connections between the IEEE and its members and customers.

The predefined and growing revenue stream provided by this methodology will make Society/Council budgeting more predictable and relieve TAB and Standards from erratic indirect infrastructure responsibilities.

Infrastructure Oversight Committee to be Revamped

The IOC will be chaired by the IEEE past-past Treasurer, and include 6 more members, balanced by OU. They will be elected by the BoD for 3-year staggered terms. The IOC will meet multiple times a year to execute reviews, to be developed, of corporate activities.

The balanced composition of the revised IOC will encourage spending tradeoffs, have more continuity, be more involved in reviewing baseline and new activities.

It is cautioned that this recommendation might lead to a greater percent of the package revenue to be drawn on by the IOC over time.

7. MEETINGS COMMITTEE REPORT

Steve Lewis for Anantha Chandrakasan

ISSCC 2007 Plans

Tim Tredwell

Three long range planning committees are in place to devise new policies for handling the continuing growth in paper submissions, and to develop plans for engaging emerging IC communities around the world. Key operational initiatives are underway to make ISSCC educational content widely available via DVD's, to understand and meet the needs of ISSCC attendees and authors as customers, and to complete the transition to all-electronic paper processing.

VLSI 2006 Summary

Bill Bidermann

The 2006 VLSI Circuits Symposium enjoyed excellent attendance and record paper submissions. Dick Jaeger, who served as Executive Committee Chair from 2000-2006, will be succeeded by Charlie Sodini.

Motion 5: To advance \$40K for the 2007 Symposium on VLSI Circuits in Kyoto, Japan. The motion passed.

CICC 2006 Summary

Steve Lewis for Larry Starr

Paper submissions in 2006 reached a record 419 papers, with an acceptance rate of 33%, not counting 54 posters. The 2006 surplus is expected to be over \$14K.

A-SSCC 2006

C.K. Wang

In its second year, A-SSCC will feature 2 plenary speakers, an industry program with two parallel sessions, one or two afternoon panels, and a student design contest. The three winners will receive scholarships at ISSCC 2007, where they will present their designs.

A conference-related goal will be to promote ISSCC in the Far East by means of four press conferences. Directed toward industry, which is less familiar with ISSCC than academia, these will be variously located, with geographically-oriented objectives.

Motion 6: To be technical cosponsor of the following 12 conferences:

- DAC 2008
- DATE 2007
- ICCAD 2007
- ICUWB 2007
- RFIC 2007
- ESSCIRC 2007
- ISLPED 2007
- CSICS 2007
- BCTM 2007
- TSA-VLSI 2007 (Both Technology and DAT)
- VLSI Design 2007
- Organic Microelectronics Workshop 2007

The motion passed.

8. AWARDS COMMITTEE REPORT

David Johns for Dave Hodges

In 2006, seven SCS nominees out of 14 were elevated to Fellow Grade. 15 nominations (10 from academia and 5 from industry) are currently under review. Given the size of our membership, the Society should have 10 - 11 successful Fellow promotions each year. Achieving this will require more nominees.

The new IEEE Fellow category – Application Engineer/Practitioner – would seem to be relevant to the industry orientation of the Society’s members. This category recognizes significant contributions in “product development, advancement in system, application or operation, project management or construction activity, process development, manufacturing innovation, codes or standards development, or other application of technology.”

Chinmaya Mishra of Texas A&M University and Peter Popplewell of Carleton University, Ottawa, Canada won predoctoral fellowships for the coming academic year.

9. EDUCATION COMMITTEE REPORT

John Bulzacchelli for C.K. Ken Yang

The DL program aims to add 10 new lecturers each year. The deadline for this year’s nominees is 30 September.

A DL Tour including 4 lecturers and two stops, Shanghai and Beijing, is scheduled for 15-18 November, immediately after A-SSCC. Some participants will already be in the Far East for this meeting.

Motion 7: To allot \$2,500 for the trans-Pacific round trip airfare of each participant in the Far East DL Tour in November 2006. The motion passed.

Two DL Tours are anticipated for next year, in Region 8 and other sites in Region 10.

IEEE Expert Now modules, offered through the IEEE Xplore platform, are 1-hour general-interest tutorials, often distilled from conferences. Five SSCS modules were created in 2004-2006; two more are budgeted for 2007. Reviewers for these and future modules are needed.

Input for SSCS DL subjects and presenters should be sent to Ken Yang (yang@ee.ucla.edu).

10. CHAPTERS COMMITTEE REPORT

Jan Van der Spiegel

Since February 2006, SSCS grew by two single chapters in Pavia, Italy and Croatia, and by a joint chapter with ED in Maine. In addition, the EDS/SSCS group in Kitchener-Waterloo separated into single SSCS and ED chapters. The SSCS roster now totals 57 chapters:

USA	Regions 1-6	15
Canada	Region 7	7
Europe	Region 8	24
South America	Region 9	1
Asia	Region 10	10

Extra Chapter Subsidy awards were given to Taipei, for two, two-day short courses on efficient high-speed link designs and on Linear regulators, to Central Texas for the inaugural Austin Conference on Integrated Systems and Circuits, and to Italy for the 2nd PRIME Conference on Ph.D. research, totaling \$8080, in addition to the awards in this category totaling \$3920, reported in February.

In 2007-2008, the maximum annual chapter subsidy for single- and newly-formed joint chapters will be \$2000, and \$1000 for joint chapters.

A Region 10 Chapter Chair luncheon is planned for 15 November in Hangzhou, China.

11. MEMBERSHIP REPORT

Bruce Hecht

SSCS membership continues to derive mainly from industry (75%), with 15% from education.

In June, membership dropped by 3.6%, while IEEE enrollment fell by 3.4%, exceeding last year's figures for the same period, which were -2.6% and -1.6% respectively.

To attract enrollment, the SSCS application for 2007 includes an Affiliate option that allows membership in SSCS, without IEEE, for an annual fee of \$22.

An Engineering Career Guide to Integrated Circuits targeted to undergraduates, and complementary to a publication being prepared by IEEE for middle and high school students, will

explain what IC engineers do and how to prepare for a career in the IC field. It is scheduled for availability in January 2007.

12. CEDA COUNCIL REPORT

Bryan Ackland

SSCS is one of six Society-members of the IEEE Council on Electronic Design Automation. CEDA activities include a quarterly newsletter, a distinguished speaker series, and a student programming contest for developing new synthesis tools and scripts. The organization is currently considering a proposal to join the sponsorship of the Kaufman Award, presented annually by the EDA Consortium.

13. SOCIETY PRIORITIES

Anne O'Neill

Jaeger asked O'Neill to introduce an initial list of Society priorities. Between meetings AdCom members will be asked to consider what others should be added to this list. After discussion Adcom members will be asked to rank them.

- To maintain the high quality and value of sscs flagship publication and conference.
- To manage the workload volume of peer review.
- To grow the quality and recognition of our smaller conferences.
- To grow our global involvement
- What to do about IEEE meetings that are too detailed to motivate our own leadership to participate
- To improve and expand our educational offerings.
- To understand better what our next generation of members and leaders want.
- To maintain broad access to our ip online for our members who don't have access through their employers.
- To lead IEEE-USA policy on hb1 visa regulations.
- To understand and act on the value of new publications.
- To leverage new technology.

14. 2007 ADCOM MEETING SCHEDULE

Richard C. Jaeger

The SSCS AdCom will meet next at the San Francisco Marriott Hotel on Sunday, 11 February 2007.

“August” Meeting Proposal

Jaeger proposed to hold the second AdCom meeting at various locations around the world every third year starting with the 2007 meeting. These would be held in conjunction with various SSCS sponsored or co-sponsored meetings. The 2007 meeting to be in Munich Sept. 10, in conjunction with ESSCIRC. SSCS will provide a travel subsidy up to \$2K will be available to those who need support.

This meeting location plan would provide increased international visibility for SSCS, demonstrate support for conferences we sponsor or co-sponsor and provide an opportunity for Adcom to become more familiar with SSCS conferences

There could be an added expense of up to \$50K (25 x \$2K) every third year to fund the travel. AdCom would evaluate the meeting location plan after first one or two new locations were experienced. An "Executive Committee" may meet in intervening years.

The proposal to hold second AdCom meeting at various locations around the world every third year, at an additional expense of \$25K in each of those years, was discussed. More email will continue on the topic via email.

A vote was not called.

15. 2006 BUDGET IMPLICATIONS OF TODAY'S DECISIONS

Rakesh Kumar

Today's request are listed and expected to impact the 2006 expenses (\$ K)

VLSI Symposium Advance	\$40
Join Nanotech Council	\$5
NTC Magazine @\$2 FOR 1 YEAR	\$22
DL Tour Transpacific Travel	\$10

16. ADJOURN Richard C. Jaeger

The meeting was adjourned at 5:30 P.M.

Respectfully submitted, August 2006,
Anne O'Neill, Executive Director of SSCS and David Johns, SSCS Secretary.