

IEEE Computer Society - Publications Board Meeting Notes
November 18, 1998 - Los Angeles, CA

AGENDA: (see Attachment)

TIME	AGENDA ITEM
=====	=====
08:00-08:30	Continental Breakfast
08:30-08:45	Call to Order, Introductions, Approval of Agenda Approval Jun '98 Meeting Minutes
08:45-09:00	Vice President's report
09:00-09:15	Publisher's Report
09:15-09:45	Demonstration of New Book
09:45-10:00	BREAK
10:00-12:00	MOC & TOC Meetings
12:00-01:00	LUNCH
01:00-01:15	MOC Report
01:15-01:30	TOC Report
01:30-03:00	Action Items <ul style="list-style-type: none">+ EIC Budget Reviews+ CS Membership in Intelligent Transportation Sys. Council+ Tech Cosponsorship fo CiSE by Signal Processing Society Executive Session <ul style="list-style-type: none">+ TVLSI EIC Search+ Extension of Cybenko's term
03:00-03:15	BREAK
03:15-05:00	Discussion Items <ul style="list-style-type: none">+ Linking CS Intellectual Properties with other organizations+ 1999 EIC Workshop (Aug 8-9 1999)+ Building Communities of Practice+ Review of CS&E, Concurrency, and Internet Computing+ CS Press and Authored Books+ ACM SIGDA and D&T Magazine+ IT Professional Update+ MMS Specification/Requirements Document+ Service Awards to Past Editors+ Functions of MOC & TOC
05:00	New Business Next Meeting (Feb 17, 1999 Houston, TX) Adjournment

ATTENDEES: Steve McConnell (EIC, Software), Gul Agha (EIC Concurrency)
Mike Williams (EIC Annals), Georgann Carter
(Mbrship, Circ/Mktg Mgr), Alan Clements (Mbr at large, Pubs Brd)
Angela Burgess (Managing Ed, Computer), Dan O'Leary (EIC IS),
Stephen Diamond (EIC Micro), Matt Loeb (Publisher), Bill Everett
(MOC&Pubs Brd), Ben Wah (Pubs Brd Chair), Farokh Bastani (EIC TKDE)
Jake Aggarwal (Pubs Brd), Rangachar Kasturi (EIC TPAMI)
Arie Kaufman (EIC TVCG), Jon Butler (TOC Chair)
Doris Carver (CS Pres.), John Keaton (Mgr Res. & Planning)
Carl Chang (Chair MOC), Jim Thomas (EIC CG&A), Mike Liu (Pubs Brd)
Jim Aylor (AEIC, Computer), Jane Liu (EIC TC)
Viktor Prasanna (representing EIC TVLSI, Brad Terry (Trans Prod Ed)
Patricia Garvey (Ad Mgr), Daniel Etiemble (volunteer),
Dave Pessel (member at large), Yervant Zorian (EIC D&T)
Bert Herzog (EIC CGA&A), Dick Kemmerer (EIC TSE),
Jean-Luc Gaudiot (EIC TC), William Grosky (EIC MM),
Sorel Reisman (Pubs Brd), Hans Hugin (EIC)
Francis Lau (member at large), Deborah Plummer (Prod Mgr CS Press)
Mary-Louise Piner (mbr news, Computer), Scott Hamilton (Acq Ed)
Wushow Chou (EIC IT-Pro), Bruce Shriver (invited speaker)

ACTIONS TAKEN:

- MOTION: Adopt agenda. - moved by Liu, seconded by Chang, unanimously carried
- MOTION: Accept June meeting minutes - moved Liu, seconded Chang,
unanimously carried
- MOTION by TOC: The Transactions on Software Engineering be given 56 pages
to cover additional space needed for a special issue in December 1998.
Unanimously carried
- MOTION: Adopt budget with ammendments to change budget for micro to \$31
and cs&e to \$10. - moved by Liu, seconded by Aggrawal, unanimously
carried.
- MOTION: Endorse motions (1) and (2) on CS membership in intelligent
transportation. - O'Leary moved, Williams seconded, carried
unanimously.
- MOTION: Endorse the technical cosponsorship of CiSE by the Signal
Processing Society. moved by Everett, seconded by Liu,
unanimously carried
- MOTION: Approve the recommended VLSI EIC candidate by search committee.
moved by Butler seconded by Williams, unanimously carried.
- MOTION: Approve 1 year extension of Cybenko as EIC of CS&E.
moved by Butler, seconded by Chang, unanimously carried

MEETING NOTES:

1. Meeting convened at 8:35. Introductions made. Agenda reviewed and adopted.

June meeting minutes accepted.

2. Vice President's Report (08:45) (see attachment)

- + Editor's Workshop - Aug 8-9 '98
- + China Visit - Oct 5-8 Shanghai, Beijing
 - CCF will operate center on CS behalf
 - Chinese membership rates
 - Access to member Digital Library
 - Access to paper copies
 - CS web mirror site in Beijing
- + EIC Search
- + Other Searches
- + New Journal Proposals

3. Publisher's Report (08:55) (attachment pending)

- + Staffing
 - Promotions
 - New Assignments
 - New Hires
 - and still hiring
 - 7 positions open for which we are recruiting
- + Staffing
 - Multiple Magazine Groups
 - Computer/IT professional
 - CISE/IS/Concurrency
 - CG&A/Multimedia/Micro/D&T
- + Advertising Effectiveness
- + Proceedings Workload
- + Reduce number of direct reports
- + Other pubs activities
 - Printing service bidding process
 - 3b2: sgml-based publishing platform
 - MMS draft requirements distributed
 - CiSE merger
 - IT Professional
 - EIC Bill Chou, North Carolina State
- + New market development - IS

4. Presentation on Multimedia Book Design and Implementation (09:15)
(see attachment)

Bruce Shriver
University of Tromso, Norway
Gensis 2, Inc.

5. Adjourn for MOC/TOC meetings (09:55)

6. Reconvene after lunch (01:15)

TOC Meeting Report

1. MMS discussion

how long manuscript persist in data base
for exact papers, at least 5 years

how long should a manuscript remain active
deadline on revision - 90 days, 1 month, 1 year

2. Reciprocal arrangement with Sig Proc Society

3. Entered motion: Transactions on Software Engineering be given 56 pages to cover additional space needed for a special issue in December 1998.

4. Format of Pubs and TOC/MOC meetings

Recommend Pubs meet 8:00-9:00 MOC/TOC meet 09:00-12:00

5. TOC unanimously recommends that the transactions shall carry no paid advertisements

7. MOC Meeting Report (1:35)

1. Discussion of overlap in content between magazines

This discussion item arose out of an email from Steve McConnell, EIC Software, to Jim Aylor, AEIC Computer regarding Computer's theme issue "Software Engineering and Management" and its overlap with the content of Software Magazine. Concern was over readers viewing optional periodicals as redundant if Computer Magazine publishes same content.

Feeling was that we need to coordinate more among Computer & Optional Magazines. Should be viewed as an opportunity. However, Computer EB should be the final arbiter of content of Computer Magazine.

Ben Wah pointed out that EICs should route theme proposals that appear to overlap the content of other magazines to the corresponding EICs for comment, just as a matter of courtesy

2. ACM co-sponsorship of D&T

Yervant Zorian wanted to get MOC feedback on some early discussions with ACM on their being technical co-sponsor of D&T before a proposal is developed. ACM does not have a magazine in this area but does have a journal.

Ben Wah expressed concern about ACM logo on CS magazine without their financial responsibility.

3. MMS II

The software spec for MMS II has been distributed for comment. Matt

indicated members of TOC asked about functional spec referenced in the software spec (he said he would distribute).

Testimonial from Steve Diamond on MMS

4. Desired feedback on CS Web Design

A request from Mike Williams

- + current scheme looks pretty dull
- + currently Annals has nice front cover, would like to have scan of front cover on web page
- + matt will note and see what can be done

5. EIC reports

OUR THANKS TO THE OUT-GOING EICs, STEVE DIAMOND AND BERT HERZOG FOR JOBS WELL DONE

8. Review Action Items (1:50)

- + EIC Budget Reviews

There was discussion to change budget for Micro to \$31 and Cs&e to \$10

- + CS Membership in Intelligent Transportation Sys. Council
- + Tech Cospnsorship fo CiSE by Signal Processing Society

Adjourn to Executive Session to discuss EIC nominations (2:15)

Reconvene (2:25)

- + TVLSI EIC Search
- + Extension of Cybenko's term

9. Discussion Items (2:30)

- + Linking CS intellectual properties with other organizations

- + 1999 EIC Workshop will be August 8-9

- + Review CS&E, Concurrency, Internet Computing, RE: declining subscriptions and losses or new startup magazine (net surplus for Internet was far less than anticipated)

- Committees will be convened early in new year

- + CS Press and authored books

- CS will back off on authored books (e.g., actively seeking an author to write a book in a particular subject area)

- The question arose on how this will affect volunteers.
Business as usual in 1999, will review volunteer role beyond 1999.

- Economics not working

- Will talk with authors in pipeline, continue to honor existing commitments.

- + Meritorious Service awards, Certificates of Appreciation to acknowledge service of volunteers

- + Discussion on MOC/TOC meeting format

- There are four possible meeting formats

1. The current one
 2. Pubs Brd meet 8-9, MOC/TOC meet 9-12
 3. MOC/TOC meet 8-11
 4. Pubs Brd meet in morning, MOC/TOC meetings after
 - General consensus for current format (1) but slide morning end/start times based on agenda load
 - + Proposal for humanistic computing
 - Proposal will be distributed for comments, comments will be fed back to proposer.
8. Adjourned at 3:25 pm.

Respectfully submitted,
Bill Everett

Agenda: Nov. 18, 1998

8:00 am – 8:30 am	Continental Breakfast	
8:30 am – 8:45 am	Call to Order Introductions Approval of the Agenda Approval of June'98 Minutes	Wah Wah Wah Everett
8:45 am – 9:00 am	Vice President's Report	Wah
9:00 am – 9:15 am	Publisher's Report	Loeb
9:15 am – 9:45 am	Demonstration of New Book	Shriver
9:45 am – 10:00 am	Break	
10:00 am – 12:00 noon	MOC Meeting TOC Meeting	Chang Butler
12:00 noon – 1:00 pm	Lunch	
1:00 pm – 1:15 pm	MOC Report	Chang
1:15 pm – 1:30 pm	TOC Report	Butler
1:30 pm – 3:00 pm	Action Items <ul style="list-style-type: none"> • EIC Budget Reviews • CS Membership in Intelligent Transportation Sys. Council • Tech. Cosponsorship of CiSE by Signal Processing Society Executive Session <ul style="list-style-type: none"> • TVLSI EIC Search • Extension of Cybenko's term 	Wah
3:00 pm – 3:15 pm	Break	
3:15 pm – 5:00 pm	Discussion Items <ul style="list-style-type: none"> • Linking CS Intellectual Properties with other Organizations • 1999 EIC Workshop (Aug. 8-9, 1999) • Building Communities of Practice • Review of CS&E, Concurrency, and Internet Computing • CS Press and Authored Books • ACM SIGDA and D&T Magazine • IT Professional Update • MMS Specification/Requirements Document • Service Awards to Past Editors • Functions of MOC and TOC 	Loeb Loeb Loeb Loeb Loeb Loeb Loeb Loeb Wah Wah
5:00 pm	New Business Next Meeting (February 17, 1999, Houston, Texas) Adjournment	Wah

Publications Board VP Report

Ben Wah, VP, Pubs

November 18, 1998

Los Angeles, CA

Editors' Workshop

- Los Alamitos, August 8-9, 1998
 - Publications program update
 - EIC role and responsibilities
 - Management of editorial queues
 - Electronic publishing
 - *Intelligent Systems* Web attempt
 - *Internet Computing Online*
 - *Computer*: H-1B survey on the Web

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China Visit

- October 5-8, 1998: Shanghai, Beijing
- Carver, Elliott, Chang, Hoelzeman, Hyakutake, and Wah
- CS Beijing Center and CS mirror site
- CCF will operate Center on CS behalf
- Chinese members pay 1/2 membership dues (US\$ 61.50 in 1999, \$35: students)
 - *Computer magazine*

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China Visit (cont'd)

- Full access to Member Digital Library Subscription
 - Exclusive benefit of CS membership
 - Not for university or corporate libraries, corporations, institutions, or individual professional or student colleagues of a member
- Subscription to CS optional periodicals (in paper form) at the sister society rate for non-CS CCF members (for personal use only)

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China Visit (cont'd)

- Maintain hard copy of the journals in CS Beijing Center
- Bulk subscriptions of a selected CS periodical to CCF members through separate agreement
- Publication in CCF's print and electronic publications, original or translated versions of 12 papers in CS periodicals per year

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CS Mirror Web Site in Beijing

- CCF (NCIC) will provide equipment, staff and maintenance for a CS WWW mirror site in China
- Maintain the integrity and security of the site
- Protect its intellectual property
 - Content of the mirror site is the property of CS

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EIC Search

Journal	Current EIC	Search Comm. Chair
IEEE Design and Test	Yervant Zorian (1 st term)	Tom Williams
IEEE Annals	Michael Williams (2 nd term)	Joe Urban
IEEE Multimedia	William I. Grosky (1 st term)	Alberto del Bimbo
IEEE TSE	Richard Kemmerer (2 nd term)	Farokh Bastani
IEEE TPDS	Jack A. Stankovic (1 st term)	Mike Liu

Start search 15 months ahead of time

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Other EIC Searches

- Mail ballot of appointing J. L. Gaudiot as EIC of *IEEE Trans. On Computers*
- Bing Sheu, EIC of TVLSI, resigned
 - Don Bouldin is Acting EIC
 - Search Committee has made recommendations
- George Cybenko (CSE) requested extension as EIC for 1 year

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New Journal Proposals

- Transactions on Dependable Computing
 - Turned down
- Transactions on Humanistic Intelligence
 - Will discuss later
- Transactions on Intelligent Transportation Systems
 - Will discuss later

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Multimedia Book Design and Implementation

Bruce Shriver
Genesis 2, Inc. and
The University of Tromsø, Norway

Agenda

- demonstration of a multimedia book
- multi-purposing source material
- cross-platform operability
- tools of the trade
- recommendations

Before the Demonstration (a few words about the book)

- the importance of studying real machines
- coherent and consistent context to examine many of the issues discussed in conventional architecture texts
- an examination of many of the platform and systems issues not treated in conventional architecture texts
- use CD-ROM technology to add value

[Visual Table of Contents](#)

After the Demonstration (a few words about the book)

- truly integrate the multimedia features into the book itself with extensive use of hyperlinks and cross references, e.g., hyperlinked "key" diagrams
- extensive array of reference material extending both the "depth" and the "breadth" of the book
- a different reading and learning paradigm emerges when using the book
- "learn by doing" simulation mindset, e.g., deliberate lack of "boundary" conditions in pseudo-RTL descriptions
- Web-site intended to make this an "evolving" book and uses same "visual table of contents" paradigm

One Fundamental Question

Can you maintain a *single copy* of the source material and re-purpose it for different media across multiple platforms?

Possibly, but with difficulty.

Multi-Purposing Source Material

- potential targets of the source material
 - traditional hard-copy target, e.g., a book, special issue of a periodical, conference/workshop proceedings, and tutorials
 - CD-ROM / DVD
 - Intranets, VPNs, the Web
- mismatch of the capabilities of each target and the costs associated with exploiting them, e.g.,
 - interactive techniques (e.g., hyperlinks, bookmarks, annotations, sharing, dynamic web access)
 - audio, video, and animations
 - 4-color, 2-color (duotone), or 1-color

Each Targeted Media Has Different Constraints and Capabilities

- formats
- bandwidth of the connections
- scalability and resolution of the figures, photos, etc.
- video playback quality
- audio playback quality
- public domain / licensed fonts, graphics, and other material
- applicable compression technology
- protecting content, restricted modes of use: view, print, modify, copy
- size and placement of files
- indexing and searching
- applicable standards
- etc.

Cross-Platform Operability

- common operating systems
 - flavors of Unix / Linux
 - Windows 95 / 98 / NT
 - MAC OS family
 - others ?
- lack of uniform support for tools and runtime environments
 - across the operating systems
 - across versions of the same operating system
- testing, testing, testing

Tools of the Trade 1

- some important standards exist
 - book: manuals of style, postscript, etc.
 - CD-ROMs: ISO 9660, Joliet, etc.
 - the Web: HTML, XML, GIF, etc.
- some don't (e.g., DVD)
- lack of integrated authoring and editing tools
 - text and illustrations
 - integrating audio
 - integrating video and animation
 - integrating simulations and models

Tools of the Trade 2

- lack of integrated authoring and editing tools
 - authoring tools for text produce PostScript, PDF, SGML, HTML, XML, VMRL, etc files
 - authoring tools for illustrations produce AI, PS, EPS, TIF, GIF, VSD, etc files
 - authoring tools for video and audio produce MOV, AVI, JPEG, MPEG X, WAV, etc files
- subtle issues arise due to the lack of integration, e.g.
 - use of vector and raster based graphics programs
 - incompatibilities between text tools and illustrations tools
 - type fonts
 - licensed or public domain (embedded or not)
 - readability on paper versus video screen (cross media or not)

Recommendations 1

- square zero: identify the overall goals of the project
 - scope and audience for material
 - what are the prerequisites (e.g., if it's a textbook or a reference book?)
- square one: decide target media early
 - hard-copy, CD-ROM/DVD, interactive or downloadable from relevant Web-sites, or combinations of these
- square two: determine cross-platform and system requirements
- square three: determine content for each target media
- then solicit early, critical peer evaluation of project and ongoing evaluations of individual components of the project as they are written

Recommendations 2

- select formats (PS, PDF, HTML, GIF, JPEG, MPEG, MOV, AVI, executables, etc.) for each form of content with an understanding the trade offs that exist
- decide on appropriate set of tools for page layout, graphics, video, audio, CD-ROM/DVD creation, Web-site development, etc. that complement one another as much as possible
- decide on mechanism for maintaining a *golden representation* and a mechanism for version/revision control for each form of content taking into account possible multiple authors at different geographic locations
- if there will be contributed sections, approach the authors involved early and fix schedules for review and editing of the material

Recommendations 3

- obtain reprint permissions as early as possible
 - figures, tables, entire articles, simulators, etc.
- develop all non-print content as early as possible in the project as extensive editing or testing will undoubtedly be required
 - e.g., audio, video, animations, and simulations
- determine what material must be converted to machine readable form as early as possible and schedule the completion of this
- plan companion Web-site content
- do incremental builds of the hard-copy, CD-ROM/DVD, and Web-site for testing purposes on the targeted run-time environments

Questions ?

Presentations About the Book's Content and Form

- Workshop on Computer Architecture Education at ISCA (International Symposium on Computer Architecture) in Barcelona, Spain
- Computer Architecture and Arithmetic for Multimedia Workshop at Dagstuhl Schloss in Wadern, Germany
- IBM T. J. Watson Research Center in Hawthorne, New York
- San Francisco State University
- University of Saarlandes in Saarbruecken, Germany
- University of Odense in Denmark
- TechCon Conference in Budapest, Hungary
- John von Neumann Computer Society in Budapest, Hungary
- Hong Kong University of Science and Technology
- Hong Kong University
- upcoming seminar at Bell Labs