Minutes of the Control Systems Society Board of Governors Meeting June 16, 2013, Washington DC.

Call to Order and Approval of Agenda

Yutaka Yamamoto called the meeting of the Control Systems Society (CSS) Board of Governors (BoG) to order at 1:00 PM on June 16, 2013. He reminded the BoG of the rules of the meeting including reminding individuals that an abstention is a no vote. After reviewing the meeting procedures, he asked the attendees to introduce themselves. The following members of the BoG were in attendance: Frank Allgöwer, Panos Antsaklis, Alessandro Astolfi, Robert Bitmead, Richard Braatz, Francesco Bullo, Carlos Canudas de Wit, Christos Cassandras, Warren Dixon, Jay Farrell, Masayuki Fujita, Alessandro Giua, Sandra Hirche, Jun-ichi Imura, Tetsuya Iwasaki, Pramod Khargonekar, Marco Lovera, Kristi Morgansen, Kirsten Morris, Lucy Pao, Thomas Parisini, Ian Petersen, Kristin Pettersen, Mario Sznaier, M. Vidyasagar, and Yutaka Yamamoto. Additionally, the following visitors attended the meeting: Fabrizio Dabbene, Roberto Tempo, and Amber Madison.

Quorum was established and the agenda was approved with unanimous consent. Following approval of the agenda, the minutes of the BoG meeting of December 9, 2012, held in Maui Hawaii were approved unanimously. Y. Yamamoto proceeded to ask if anyone would like to remove items from the Consent Agenda (see Appendix A). No items were removed from the Consent Agenda and it was approved unanimously.

Action Items

Appointments

C. Cassandras, Chair of the Nominating Committee indicated that the CSS Executive Committee (ExCom) nominees could be voted on as a slate or individually. He suggested that the board vote for the 2014 slate of candidates including: E. Valcher as President-Elect, A. Annaswamy as the Vice President Conference Activities, E. Chong as the Vice President Financial Activities, K. Morris as the Vice President Membership Activities, F. Bullo as the Vice President of Publication Activities, and F. Allgöwer as the Vice President Technical Activities. The candidates left the room. He opened the floor for discussion. The motion was unanimously approved.

He then informed the BoG that a ballot consisting of nine candidates was selected by the nominating committee was sent on March 26, 2013 to all IEEE Control Systems Society (CSS) members by IEEE for the election of six members to the CSS BoG. IEEE indicated the following candidates are now elected for a three-year term from January 1, 2014 – December 31, 2016: Fabrizio Dabbene, Li-Chen Fu, Hideaki Ishii, Ioannis Paschalidis, Ann Rundell, and Dawn M. Tilbury.

In his role as the incoming chair of the Nominating Committee, Y. Yamamoto, reminded the BoG that the 2014 Nominating Committee was elected through an electronic vote.

BoG members were asked to vote for 4 members from a slate of 7 candidates. The four elected members are: Christos Cassandras, Jay Farrell, Richard Middleton, and Tariq Samad. Y. Yamamoto also indicated the he and Elena Valcher would be the ex-officio members.

Y. Yamamoto then presented the following motion:

- *Motion: Move to revise the CSS Awards Manual regarding the winners of the Control Systems Technology Award (one recipient), Control Systems Technology Transition to Practice Award, Conference on Decision and Control Best Student Paper Award, Multi-Conference on Systems and Control Best Student Paper Award, Outstanding Chapter Award (one Chapter representative), and Hendrik W. Bode Lecture Prize to "3 conference-rate hotel-nights for a 3-day conference, and 4 conference-rate hotel-nights for a 4-day conference."*

He opened the floor for discussion. M. Vidyasagar provided a friendly amendment that the board add one more day so that the motion reads up to 4 days and up to 5 days, where the decision is left open to the award winner. C. Cassandras seconded the motion. P. Antsaklis commented in favor of the amendment. Y. Yamamoto asked for a vote, the amendment passed unanimously. Y. Yamamoto asked for a vote on the following revised motion:

- *Motion: Move to revise the CSS Awards Manual regarding the winners of the Control Systems Technology Award (one recipient), Control Systems Technology Transition to Practice Award, Conference on Decision and Control Best Student Paper Award, Multi-Conference on Systems and Control Best Student Paper Award, Outstanding Chapter Award (one Chapter representative), and Hendrik W. Bode Lecture Prize to "up to 4 conference-rate hotel-nights for a 3-day conference, and up to 5 conference-rate hotel-nights for a 4-day conference."*

The revised motion passed unanimously.

Y. Yamamoto then presented the following motion:

- *Motion: Move to become a financial co-sponsor of the Life Sciences Technical Community, beginning as soon as possible.*

Y. Yamamoto then provided some background on the motion. He indicated that financial co-sponsorship would cost CSS $15K. M. Vidyasagar commented that the initiative started as a new initiative in 2010, and that the initiative will no longer receive initiative funding. M. Vidyasagar indicated that new revenue would come from society financial co-sponsorship by 8-10 member societies, a new journal, and conference proceedings. He indicated the technical community expects to be self-sufficient in 2-3 years. There was no further discussion. Y. Yamamoto asked for a vote, the vote passed unanimously.

He then presented the following related motion:

- *Motion: To provide technical and financial co-sponsorship by the IEEE Control Systems Society for the journal "IEEE Life Sciences Letters".*

He discussed the financial implications are a cost of approximately $10K/year for the first two years. The benefit is that the investment will be repaid by end of the fourth year. In the fifth year (or after the investment is repaid), 15% share of the profits would be approximately $7.5K. In subsequent years, 5% share of profits would be $2.5K/year.

R. Bitmead indicated that it is important to understand the scope of the journal. M. Vidyasagar indicated that the journal would focus more on proofs and rigor of the analytics in comparison to other life sciences publications. He indicates that there is a potential large market of people. He indicated that the Phase 1 proposal has been approved, and they are working towards the Phase 2 proposal. The concept is to broaden the community versus compete with other biological journals.

F. Bullo asked if the journal would have Co-Editors-in-Chief (Co-EiC). M. Vidyasagar indicated that if IEEE requires one EiC, then he and F. Doyle have decided that M. Vidyasagar would serve that role. He also indicated there is a revenue stream for the CSS. There was no further discussion. Y. Yamamoto asked for a vote. The motion was approved unanimously.

F. Bullo then presented the following motion:
- *Motion: To include in IEEE Xplore the Proceedings of the European Control Conference (ECC) for the years 1997, 1999, 2001, 2003, 2007, 2009, as content sponsored and owned by the IEEE Control Systems Society.*

F. Bullo discussed the one-time cost of approximately $45K to upload the content into Xplore, where the financial benefit is that the Xplore income is roughly estimated to be at least $85K/year for three years. He also indicated that in future years the proceedings would be acquired. He gave further insight into the Xplore financial model pertaining to financial income based on an email written by Kevin Dresely, IEEE Director of Conference Operations. F. Bullo then asked for any discussions. Y. Yamamoto indicated that based on his calculation, approximately twenty-five cents of revenue is generated per download. Bullo asked C. Canudas de Wit if he had any further comment. He commented that EUCA was more focused on the impact of incorporating the papers in IEEE Xplore, versus concerns over the financial model. There was discussion that further papers may be scanned and also uploaded. P. Antsaklis asked about the 2013 proceedings. F. Bullo indicated that technical co-sponsorship (TCS) and proceedings acquisition (PA) has already been established for the next five years. F. Bullo called for a vote. The vote passed unanimously.

W. Dixon reviewed the following motions that had been passed through electronic votes.

- *Motion: Move to increase the IEEE Trans. on Control Systems Technology page budget to 2500 pages from 1700, beginning as soon as possible.*

- *Motion: Appoint Prof. Ioannis (Yannis) Paschalidis Editor-in-Chief of the IEEE Transactions on Control of Network Systems.*
- *Motion: Appoint Prof. Magnus Egerstedt Deputy Editor-in-Chief of the IEEE Transactions on Control of Network Systems.*

Activity Reports

Report of the President

Y. Yamamoto started his report to BoG by indicating that there were only a few nominations that were elevated to fellow last year. There is a large pool of senior members that should be nominated. He indicated that there are also a limited number of nominations for awards. He asked the board to be proactive in nominating candidates. M. Vidyasagar commented that about 20-30 years ago would just circulate a list of people that were senior members, and that this list helps to highlight candidates. C. Cassandras stated that CSS still examines the list of senior members, and that getting qualified nominations is not the concern. The concern is that with regards to the fellow nominations, we are not evaluating our members as highly as other societies, and when combined, fewer members are elevated because of the lower relative rating.

Y. Yamamoto reviewed a Phase 1 proposal for the Systems, Man, and Cybernetics Society sponsored IEEE/CAA Journal Automatica Sinica. He indicated that there has been considerable discussion due to overlapping scopes with CSS and other societies, and that the first proposal lacked maturity. Based on the revised and combined Phase 1/Phase 2 proposal, the ExCom decided not to vote in support. He indicated that several other technical societies have also decided not to support the proposal.

R. Bitmead questioned why IEEE is not objecting vigorously to the proposal given that the technical societies are not supportive. Y. Yamamoto and F. Bullo indicated that the ExCom was opposed to the IEEE developing regional publications. F. Bullo indicated that there is already precedence for IEEE supporting a regional publication. J. Farrell provided further background indicating that the journal will go forward with either IEEE or with Elsevier. M. Vidyasagar indicated that if the journal happens without consent of CSS then that is one issue, but that the society should be on record as not approving vigorously. C. Cassandras indicated that CSS objected to the Phase I proposal and it did not pass. He further indicated that the society should be careful not to alienate the Chinese delegation, because CSS is supportive of their desire to internationalize their publication activities. R. Bitmead and C. Cassandras discussed that the objection is more with IEEE's approach regarding their metric of success being a financial metric. J. Farrell responded that the CSS objected very specifically by stating support for the Chinese delegation, but not IEEE's approach. R. Bitmead stated that by not objecting vigorously, then CSS is essentially acquiescing. C. Cassandras clarified that CSS was asked to be financial or technical co-sponsors of the journal, and the response was no. M. Vidyasagar stated that other societies were much more aggressive in rejecting the life sciences journal proposal. He indicated that, likewise, CSS should go to the periodicals committee

meeting and object to the journal, rather than just not to be present at the periodicals committee. Y. Yamamoto indicated that he went to the periodicals committee in February and voiced the society concerns. Since CSS has again rejected the proposal that the society's opinion has been well conveyed. Y. Yamamoto indicated that he feels that the ExCom has acted in the spirit of the discussion by the BoG, but there is a sensitivity not to further the point.

Y. Yamamoto then commented on the Ethics in Publication activities. He indicated that based on C. Cassandras' letter to Gordon Day, at the time when he was president of IEEE, there is some action by IEEE regarding impact factor manipulation. These changes include changes in sections 8.2.1.D of the IEEE Publication Services and Products Board manual and there is a proposal for a new subcommittee to examine the instructions for authors and propose possible amendments.

Y. Yamamoto presented information regarding why IEEE is charging for TCS for conferences. He clarified that societies benefit financially from proceedings acquisition, but the revenue is not returned to the conferences, and the conferences are in fact charged $1K for acquisition and then $15/paper. C. Canudas de Wit questioned the financial motivation for the mechanism. He indicated that it only limits the expansion of the number of conferences and workshops that are associated with TCS. Y. Yamamoto indicated that IEEE has indicated that it requires a number of individuals for quality checking. C. Cassandras indicated that IEEE has branded the name and, at the risk of alienating conferences, IEEE still feels the need to charge, even though there has not been quality concerns with many conferences. This is why IEEE has been slowly revising and pushing the agenda. He also noted that other societies are also objecting to the motion. Y. Yamamoto further indicated that the financial implication of paper downloads and revenue stream from Xplore have been clouded. I. Petersen indicated that the authors and conferences do benefit from the IEEE brand and Xplore. He indicated that the revenue should come back to the society. Y. Yamamoto indicated that the number of downloads from conferences is not clear. R. Bitmead indicated that the permanent secretariat is running the society more and more and that it is unclear how to bring the membership and readership back as IEEE focuses more and more on the financial gains. Cassandras further indicated that the money is returned to the society, but it is returned to the reserves, and the society does not have free access to the reserves. M. Vidyasagar indicated that he was asked to be on a program meeting in Tunisia and the papers were as good as IEEE Conference on Decision and Control (CDC) papers. He indicated that such financial models would not be feasible for developing countries and local workshop proceedings such as the one in Tunisia. He indicated that this model would yield infant mortality of developing conferences in developing nations. He suggested a motion be developed to support the conference with grants. C. Cassandras said this is possible. Y. Yamamoto indicated that there is also a perception issue with IEEE, which can possibly damage IEEE's brand. M. Vidyasagar suggested that if IEEE goes down this road then technical societies would even close out larger groups of workshops.

Report of the Vice President of Conference Activities

M. Fujita informed the BoG that Reza Moheimani was approved as a single Program Chair for the Multi-conference on Systems and Control (MSC) 2015 in the consent agenda. He reviewed the conferences that are running through 2016. He provided data on conferences for which TCS and PA have been approved. He then yielded the floor to M. Vidyasagar that reported on the MSC 2013 in Hyderabad, India. He provided a summary of submissions and acceptance from the individual MSC conferences. He provided paper submission and program highlights. He reviewed promotional schemes including: a CSS grant, the developing nations program, sponsorship from GE, and various amounts from exhibitors and various government agencies. He described how the funds were being spent to assist students and members. These funds are supporting 7 professors and 37 students.

T. Parisini then presented updates regarding the CDC in Florence, Italy. He provided an overview of the committee and the submissions and review process, including a timeline for decisions to authors. He reviewed the program layout, discussing plenary lectures and the bode lecture. He provided an overview of the industrial sponsors. He reviewed the budget, with specific comments focused on the Value Added Tax (VAT) fee. He confirmed that they were able to maintain the registration rates that were approved three years ago. Moreover, a social dinner is now being provided. He reviewed the hotels that are available. He indicated that a professional conference organizer has reserved rooms at various hotels. He reviewed places that are of interest that attendees could visit. He highlighted the preview article that has been published in the IEEE Control Systems Magazine.

M. Fujita asked if there were further questions on conference activities, and no further discussion was provided.

Report of the Vice President of Publication Activities

F. Bullo reported on the activities of the publications board. He commented on the CSS publication digest and informed the BoG of the utility of the digest. He indicated that the digest would be mailed to CSS members monthly in the near future. He gave an update on the anonymous Ethics in Publication committee. He indicated that there were 15 cases reviewed for the MSC 2013, and there were 4 resulting requests to IEEE for a publication ban. The committee also handled 26 cases for the CDC 2013. Most cases involved inappropriate reuse of previously published material and the community needs to be made more aware of the IEEE standards. He provided an update on the new IEEE Transactions on Control of Network Systems (TCNS) in terms of the Editor-in-Chief, Deputy Editor-in-Chief, and the editorial board. He described progress on developing a symposium for the authors in the first issue of the TCNS.

He briefly reviewed highlights from the editorial reports from the IEEE CSS journals. He reviewed the page budget increase for the IEEE Transactions on Control Systems Technology (TCST) that was approved. He indicated that there is an ever increasing number of papers in our journals, and that this is an issue to be investigated along with impact factor indicators and ethics in publishing. He also reported that IEEE has done a

poor job in the production of our papers, reprints, and changes in the file due to retyping. He indicated that he is collecting examples of errors to take to the IEEE Periodicals Committee. M. Vidyasagar indicated that other IEEE journals (e.g., the IEEE Transactions on Information Theory) do a better job of formatting papers than in the IEEE Transactions on Automatic Control (TAC). A. Giua asked if the society should address the problem of reviewers asking the authors to cite their papers. F. Allgower indicated that there are three groups that need additional rules including: the authors, the editors, and the editorial boards. I. Petersen indicated that sometimes it is legitimate for reviewers to ask authors to cite the reviewer's or associate editors' paper. C. Canudas de Wit asked about the reuse policy regarding how much material can be reused. F. Bullo and T. Parisini indicated that it is the same for all journals, and the discriminating indicator stated in the journals is "value added". C. Cassandras highlighted that there is a CSS website that spells out the reuse policy.

Report of the Vice President of Membership Activities

K. Morris reviewed some of the general membership numbers, including trends on the number of women. She commented that the number of women members is remaining flat, whereas the overall membership is increasing. She then detailed the general membership trends by geography. She reviewed that the BoG had previously passed a motion that CSS provide free membership to student members, but IEEE is strongly against this. IEEE has provided K. Morris with a number of suggestions to increase student members. However, the suggestions are similar to programs the society already has in place. Also, CSS recently increased conference travel support funds for students. K. Morris then reviewed the IEEE Milestones program, and stated that not a single example has a control focus. She asked members to think about milestones that could be promoted. She asked if there was any further discussion. There was none.

Report of the Vice President of Technical Activities

F. Allgower reported changes in the technical committee (TC) board. One TC was terminated, a new TC was started focused on healthcare, and quite a few TC chairs ended their terms yielding a change. He commented that the TCs are still working towards a process to update the Wikipedia pages. He indicated that the collection of TCs do not span the space of the problems that the society investigates. He commented that CSS should look for new areas that need coverage.

Report of the Vice President of Financial Activities

Y. Yamamoto informed the board that E. Chong could not attend the BoG due to health reasons, and that J. Farrell would provide some updates on his behalf. J. Farrell then gave an overview of the CSS budget balance sheet. He indicated what IEEE controls and what CSS has the ability to change. He then provided the net worth of the society as $7.2M. M. Vidasyagar asked if J. Farrell could explain C. Cassandras' comment that CSS cannot spend its reserves. J. Farrell indicated that CSS could spend some of the funds as initiatives. K. Morris asked about the reserves of other societies. J. Farrell indicated that

some societies have no reserves and other societies even owe funds. He indicated that CSS is very healthy, and the society is trying to reduce the amount of surplus. M. Vidyasagar indicated that CSS might want to increase the number of plans for students and developing nations outreach.

Other Business

Y. Yamamoto asked if there was any new business. W. Dixon indicated that the next meeting would be December 9th in Florence Italy. The meeting adjourned at 4:10 PM.