

TECHNICAL COMMITTEE ON \_\_\_\_\_ Computer Architecture \_\_\_\_\_  
 REPORT SUBMITTED BY: \_\_\_\_\_ Dean tullsen \_\_\_\_\_

**KEY VOLUNTEERS (PLEASE LIST YOUR TC'S ExCom AND ANY OTHERS)**

Role	Name, Email
Chair	Dean Tullsen, tullsen@cs.ucsd.edu
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**2016 PROGRESS REPORT & PLANS**

*Please enlist your membership's participation in your plans for the coming year by suggesting upcoming opportunities for Volunteer involvement.*

ACTIVITY AREA	2015 ACCOMPLISHMENTS	2016 PLANS
<p><b>Highlights:</b> <i>Highlights of the past year, and special plans underway for the coming year. Indicate if you'd be interested in formally sharing your success stories with other TC Chairs at an upcoming CS TAC meeting.</i></p>	<p>In 2015, TCCA-supported conferences continued to be strong in terms of attendance, paper quality, and financial performance.</p> <p>HPCA 2015 was held in San Francisco, CA, and was again co-located with CGO and PPOPP. Attendance and paper quality was high, and the co-located conference plan continued in 2016 in Barcelona, Spain. The partnership continues to be positive and strong.</p> <p>ISCA 2015 was held in Portland, OR, as one of the pillars of the Federated Computing Research Conference (held every four years).</p> <p>In 2015, ISCA introduced centralized childcare (fully subsidized) for the first time.</p>	<p>HPCA 2016 has already been held in Barcelona. ISCA 2016 will be held in Seoul, South Korea.</p> <p>We are working on initiating a new award, best dissertation, to bring greater recognition to our young and rising stars. This will be co-sponsored with ACM SigArch.</p> <p>For additional information on IEEE TCCA activities, see <a href="http://www.ieeetcca.org">http://www.ieeetcca.org</a></p> <p>ISCA 2016 will again make childcare available, but likely only partially subsidized.</p> <p>Additionally, TCCA sponsored a new "companion travel" fellowship to HPCA 2016 to support travel for someone with a disability or traveling with a small child. One such fellowship has been awarded.</p> <p>HPCA 2017 has been awarded to Austin Texas.</p> <p>ISCA 2017 has been awarded to Toronto.</p>
<p><b>Conferences:</b> <i>Describe TC's sponsorship, co-sponsorship, or co-operation of conferences. Include any planned launches or discontinuations.</i></p> <p><i>Did the TC actively participate on any program committees, technical committees, or steering committees of these conferences?</i></p>	<p>ACM/IEEE Symposium on Architectures for Networking and Communications (ANCS) - 34%</p> <p>IEEE Symposium on Low-Power and High-Speed Chips (Cool Chips) - 50%</p> <p>IEEE International Symposium on Field-Programmable Custom Computing machines (FCCM) - 100%</p>	

	<p>IEEE International Symposium on High Performance Computer Architecture (HPCA) - 100%</p> <p>IEEE International Conference on Computer Design (ICCD) - 50%</p> <p>IEEE International Symposium on Workload Characterization (IISWC) - 100%</p> <p>IEEE/ACM International Symposium on Computer Architecture ISCA (50%)</p> <p>IEEE International Symposium on Performance Evaluation of Systems and Software (ISPASS) - 34%</p> <p>IEEE/ACM International Symposium on Nanoscale Architectures (NANOARCH) – 50%</p> <p>Parallel Architectures and Compilation Techniques (PACT) - 24%</p> <p>International Symposium on Computer Architecture and High Performance Computing (SBAC-PAD) - 13%</p>	<p>In addition, TCCA regularly sponsors student travel support grants to several of these conferences, including HPCA, ISCA, and PACT.</p> <p><b>Opportunities for Volunteer Involvement:</b> We are soliciting applications to host HPCA and ISCA for 2018 and beyond.</p> <p>TCCA members continue to serve actively as general chairs, program chairs, and organizing committee and program committee members for these conferences.</p>
<p><b>Communication:</b> Describe your TC's communications strategy (including frequency) with your membership (eg, newsletters, listservs, blogs, Twitter, Facebook, letter from the Chair, Web portal, etc.) Include info on how to subscribe. Any updates or changes completed or planned for the coming year?</p> <p>Please list your URL and the name &amp; email of the Web master.</p>	<p>Engin Ipek - Communications Chair ipek@cs.rochester.edu</p> <p>Website: <a href="http://www.ieeetcca.org">http://www.ieeetcca.org</a></p> <p>The IEEE TCCA website is online and is continually being populated with current content.</p>	<p>Members are urged to submit relevant content.</p> <p><b>Opportunities for Volunteer Involvement:</b> The TCCA chair is searching for a web chair to take over maintenance of the TCCA website.</p>
<p><b>Meetings:</b> Any TC meetings held/ planned? At what venue (at conferences, teleconferences, videoconferences?)?</p>	<p>TCCA Business Meetings are held twice a year, at the HPCA and ISCA conferences.</p>	

<p><b>Publications:</b> <i>Sponsored publications or hosted special issues of a Computer Society magazine? Plans for one?</i></p>	<p>IEEE TCCA continues to sponsor “Computer Architecture Letters”, a popular forum for quick (but rigorous) review and publication of early results. Jose Martinez continues to serve as editor in chief.</p>	<p><b>Opportunities for Volunteer Involvement:</b> volunteers are active as associate editors and reviewers for CAL.</p>
<p><b>Collaborative Efforts:</b> <i>Collaboration with other TCs, IEEE, or other groups or committees?</i></p>	<p>IEEE TCCA works closely with a number of organizations. HPCA is annually co-located with CGP and PPOPP and we work closely with the steering committee chairs of those two conferences to plan that event.</p> <p>ISCA is co-sponsored with ACM SigArch, and we work closely together in the planning of that event, including a dual business meeting and a combined awards ceremony.</p>	
<p><b>Awards and Recognition:</b> <i>Describe your TC’s awards activities – given and planned.</i></p>	<p>The 2015 IEEE TCCA Young Computer Architect Award Committee included Lieven Eeckhout (chair), Kunle Olukotun, and Stephen Keckler. Ron Dreslinski from the University of Michigan received the 2015 award, in recognition of “outstanding research contributions in computer architectures for emerging low-power circuit techniques”.</p> <p>Working with ACM Sigarch, the ISCA Influential Paper Award was given to “Wattch: A Framework for Architectural-Level Power Analysis and Optimizations” from ISCA 2000.</p> <p>TCCA continues to maintain the HPCA Hall of Fame, and recognize annually new members.</p>	<p>For 2016, Kunle Olukotun becomes chair, Steve Keckler rotates off, and Onur Mutlu is added as the new member.</p> <p>We are formulating plans for a new “best architecture dissertation” award. Natalie Jerger is spearheading that effort.</p>
<p><b>Concerns:</b> <i>Share your TC-related concerns with your members.</i></p>	<p>The TCCA chair has taken over the maintenance of the website, which has not gone completely</p>	<p>We solicit volunteers to take over as TCCA Web Chair.</p>

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*Reports will be posted on the TC's Computer.org "Scope Page".*