

SIGOPS Annual Report July 2015 – June 2016

SIGOPS addresses a broad spectrum of issues associated with operating systems research and development. Although many of the members are drawn from industry, academic and government professionals are also represented in the membership.

Overview

This was the first year for Robbert van Renesse (Cornell) as Chair, Shan Lu (University of Chicago) as Vice Chair, Kaoutar El Maghraoui (IBM Research) as Treasurer, and Håvard Johansen (University of Tromsø, Norway) as Information Director. We took these roles over from Jeanna Matthews (Clarkson University) as Chair, George Candea (EPFL) as Vice Chair, Dilma da Silva (Qualcomm) as Treasurer, and Muli Ben-Yehuda (Technion) as Information Director.

This year SIGOPS has added a new chapter, ChinaSys. The ChinaSys board consists of Wenguang Chen (Tsinghua, Chair), Haibo Chen (Shanghai Jiao Tong, Vice Chair), and Yungang Bao (ICT, Treasurer). The other two chapters are Eurosys and SIGOPS de France.

SIGOPS publishes a quarterly newsletter, *Operating Systems Review (OSR)*, which focuses on specific research topics or research institutions, manages an electronic mailing list, and maintains a web site: <http://www.sigops.org/>. Jeanna Matthews and Tom Bressoud have retired as co-editors of Operating System Review. These posts are being taken over by Mark Silberstein (Technion) and Chris Rossbach (UT Austin). There were 3 issues of OSR in the last year.

SIGOPS encourages participation in conferences and career building activities for young members of the community. For example, substantial funding was provided this year as travel grants for students to attend conferences and diversity workshops, with many of these grants targeted at women and underrepresented minorities.

Professional SIGOPS membership dues remain at \$10, and student membership is just \$5 per year.

Awards

The SIGOPS Dennis M. Ritchie Doctoral Dissertation Award 2015 committee was run by Emmett Witchel (Chair, UT Austin), Andreas Haeberlen (U. Penn.), and Edouard Bugnion (EPFL). The award went to Cristiano Giuffrida's "Safe and Automatic Live Update" (Vrije Universiteit Amsterdam), advised by Andrew S. Tanenbaum. Nadav Amit (Technion-Israel Institute of Technology) got an Honorable Mention for "Alleviating Virtualization Bottlenecks", advised by Assaf Schuster and Dan Tsafir. Cristiano Giuffrida was also the recipient of the EuroSys Roger Needham Ph.D. Award 2015.

The Mark Weiser Award 2015 was awarded to Yuanyuan Zhou of UC San Diego. The committee consisted of John Wilkes (Google, Chair), Stefan Savage (UCSD), and Margo Seltzer (Harvard).

The previous SIGOPS chair, Jeanna Matthews, put together a group to revise selection procedures for the SIGOPS Hall of Fame Awards. The group consisted of Tom Anderson, Peter Druschel, Steve Hand, Jeanna Matthews, Jeff Mogul, and Amin Vahdat. The group has proposed to complete the selection of the most influential papers of the past fifty years in time for the celebration of the 50th anniversary of the founding of SIGOPS at SOSP 2015. In order to do this, the HoF Award was suspended for the year 2014. Starting from OSDI 2016, the selection of HoF papers will be restricted to papers that appeared 10-11 years previously. The selection committee for these awards will be made up of the program chairs / co-chairs of the SOSP/OSDI conferences that were held within that 10-11 year timeframe. The 2015 selection committee consisted of Peter Druschel (MPI), Gernot Heiser (NICTA), Remzi Arpaci-Dusseau (Wisconsin), Butler Lampson (Microsoft),

Barbara Liskov (MIT), Jeff Mogul (Google), Mendel Rosenblum (Stanford), Willy Zwaenepoel (EFPL), and was co-chaired by Hank Levy (Washington) and Frans Kaashoek (MIT). 14 papers were selected and are listed on our website.

The SIGARCH/SIGPLAN/SIGOPS ASPLOS Influential Paper 2016 went to “Limits of instruction-level parallelism” by David W. Wall. *SIGARCH Comput. Archit. News* 19, 2 (April 1991). Also *SIGOPS Oper. Syst. Rev.* 25, Special Issue (April 1991).

Conferences

- SOSP 2015 was held in Monterey, CA in October 2015. It was 100% sponsored by SIGOPS. The General Chair was Ethan Miller (UC Santa Cruz) and the Program Chair was Steven Hand (Google).
- Collocated with SOSP 2015, we sponsored the following workshops:
 - o In celebration of the 50th Anniversary of SIGOPS we sponsored a History Day workshop. Chaired by Peter Denning, the organization committee consisted of Steve Bellovin, Ken Birman, Andrew Birrell, Matt Blaze, David Clark, Peter Denning, Jack Dennis, Virgil Gligor, Casey Henderson, Andrew Herbert, Frans Kaashoek, Butler Lampson, Barbara Liskov, Jeanna Matthews, David Mazières, Mark Miller, Peter Neumann, Dave Patterson, Robbert van Renesse, Mahadev Satyanarayanan, Margo Seltzer, Fred Schneider, Mike Schroeder, Andy Tanenbaum, Robert Watson, and Yuanyuan Zhou.
 - o The 2015 Workshop on Supporting Diversity in Systems Research.
 - o The Conference on Timely Results in Operating Systems (TRIOS).
 - o The 9th ACM SIGOPS Workshop on Large-Scale Distributed Systems and Middleware (LADIS).
- Planning for the next *ACM Symposium on Operating Systems (SOSP)*, which is scheduled for October 2017 in Shanghai, is underway. Haibo Chen and Lidong Zhou are serving as General Chairs, and Lorenzo Alvisi and Peter Chen as Program Chairs. We also put together as Steering Committee consisting of Andrew Birrell, Dilma Da Silva, Mike Dahlin, Peter Druschel, Steven Hand, Hank Levy, and Ethan Miller.
- The 11th Eurosys Conference (Eurosys 2016) was held in London in April. Sponsored by SIGOPS and Eurosys.
- The 21st ACM International Conference on Architectural Support for Programming Languages and Operating Systems (ASPLOS) was held in Atlanta, GA, April 2–6, 2016. ASPLOS is sponsored 25% by SIGOPS, 50% by SIGARCH, and 25% by SIGPLAN.
- The 12th ACM SIGPLAN/SIGOPS international conference on Virtual Execution Environments was collocated with ASPLOS in Atlanta. VEE is sponsored 50% by SIGPLAN and 50% by SIGOPS.
- The 34th Annual ACM SIGACT-SIGOPS Symposium on Principles of Distributed Computing (PODC) was in in Donostia-San Sebastián, Spain in July 2015. PODC was sponsored 50% by SIGOPS and 50% by SIGACT.
- The 6th ACM Symposium on Cloud Computing (SOCC) was held in Hawaii in August 2016. SOCC is sponsored 50% by SIGOPS and 50% by SIGMOD.
- The 13th ACM SenSys (SenSys) was held November 2015 in Seoul, Korea. Sensys is sponsored 10% by SIGOPS, SIGARCH, SIGMETRICS and SIGBED, 30% by SIGMOBILE, and 30% by SIGCOMM.

- The 6th SIGOPS Asia-Pacific Workshop on Systems (APSys) was held in July 2015 in Tokyo, Japan. SIGOPS is 100% sponsored by SIGOPS⁶
- The 9th ACM International Systems and Storage Conference (SYSTOR) was held in Haifa in June 2016. It is 100% sponsored by SIGOPS.
- We sponsored the 2016 CRA-W Grad Cohort Workshop, held in San Diego, April 10-11, 2016 at the Bronze level sponsorship. A record 511 women masters and Ph.D. students attended, representing 159 institutions from the United States and Canada and 60 had research interests in Operating Systems.
- In-cooperation events included Usenix events OSDI 2016, FAST 2016, and NSDI 2016.
- We are considering adopting the HotOS workshop, which has been run by USENIX.

Selection of Recent Initiatives

- SIGOPS is in the process of considering sponsorship of childcare services at major systems conferences in order to promote diversity. We have agreed to sponsor childcare at OSDI 2016 for up to 12 children.
- SIGOPS approved providing registration discounts to SOSP 2015 for retirees.
- Eric Eide (U. Utah) has agreed to participate on the ACM SGB Replication Taskforce (on independent verification of results) on behalf of SIGOPS.