

Title: Inclusion statistics on MICRO, ISCA, and ASPLOS

Kathryn S McKinley, February 2018

<http://www.cs.utexas.edu/users/mckinley/notes/arch-sc-pc-data.pdf>

Below is source data for my SIGARCH blog post (<https://www.sigarch.org/blog/>) on February 14, 2018.

The table below shows diversity with respect to gender, race, institution and academic lineage for the Steering Committee (SC) and Program Chair (PC) of MICRO, ISCA, and ASPLOS, where community overlap is very high. I sample conference SC in 2017, 2007, and 1997 for MICRO and ISCA, and 2017, 2008, and 2002 for ASPLOS (ASPLOS SC for years prior to 2002 are not in the proceedings.) The program chair (PC) statistics cover ten years, 2008-2017. Below the table is the raw data of the people and their institutions that served on these SC and PC instances. I collected this data from conference webpages and proceedings front matter in the ACM Digital Library.

I sample SC because we expect turn over after 10 years, but not consecutive years, since appointments are often 2 to 3 years. (In some other years, MICRO SC had one woman appointment.) I select PC because this position is the most prestigious and visible. PC is considered equivalent to a research award at many institutions.

Each year is an instance of the SC and PC. Appointments sum all people in each instance. The categories — Women, Under Represented Minorities (URM) relative to the USA, Asian, and international (not at a USA institution) — count characteristics of each person once, regardless of the number of instances in which they appear. Same person counts individuals who served in two or more instances (not total instances). Overlap in institution counts institutions for distinct individuals and intersects them over all instances.

	MICRO		ISCA		ASPLOS	
	SC	PC	SC	PC	SC	PC
appointments	30	16	21	11	26	10
women	0%	0%	10%	9%	31%	40%
URM	0%	0%	0%	0%	0%	0%
Asian	3%	12%	19%	9%	19%	40%
international	0%	0%	14%	36%	8%	0%
same institution	‡23%	α25%	β29%	δ36%	μ35%	φ20%
same lineage	†20%	†25%	0%	*18%	*15%	0%
same person	26%	0%	10%	0%	0%	0%

Inclusion Table Statistics for SC and PC. Higher is more diverse in the top half. Lower is more diverse in bottom half. Same lineage is an advisor/student, same advisor, and grand-student/advisor. ‡3 Georgia Tech; 2 Michigan; 2 NC State. α2 Georgia Tech; 2 MIT. β2 Illinois; 2 Intel; 2 Wisconsin, Illinois and Wisconsin by election. δ2 Illinois; 2 Intel. μ3 Wisconsin, 2 Texas; 2 Digital Equipment; 2 Princeton, Wisconsin and Texas by election. φ2 Illinois. †8 all same lineage. ††4 all same lineage; 40% measured in years. *One advisor/student pair.

MICRO SC (2017, 2007, 1997)

0/30 women

0/30 URM

1/30 Asian

0/30 international

3+2+2/30 same institution; 3 Georgia Tech, 2 NC State; 2 Michigan

6/30 same lineage: Yale Patt, Wen-Mei Hwu, Tom Conte, Scott Mahlke, Onur Mutlu, Moin Qureshi

8/30 same person: Yale Patt, Wen-Mei Hwu, Tom Conte, Matthew Farrens, Scott Mahlke, Richard Belgard, Bill Mangione-Smith

2017 MICRO SC

Richard Belgard (Chair), Consultant (20+ year SC member)
David Albonese, Cornell
Tom Conte, Georgia Tech (10+ year SC member)
Kemal Ebcioglu, Global Supercomputing
Matthew Farrens, UC Davis
Scott Mahlke, U. Michigan (10+ year SC member)
Bill Mangione-Smith, Consultant (20+ year SC member)
Onur Mutlu, CMU
Yale Patt, UT Austin (20+ year SC member)
Moin Qureshi, Georgia Tech
Milos Prvulovic, Georgia Tech

2007 MICRO SC

Richard Belgard, Consultant (Chair)
Bob Colwell, Consultant
Tom Conte, NC State
Kemal Ebcioglu, Global Supercomputing
Wen-mei Hwu, UIUC (10+ year SC member)
Scott Mahlke, Michigan
Bill Mangione-Smith, Intellectual Ventures
Yale Patt, UT Austin
Eric Rotenberg, NC State
John Shen, Nokia
Mateo Valero, UPC

1997 MICRO SC

Richard Belgard, Consultant
James Bondi, TI
Matthew Farrens, UC Davis
Stan Habib, CUNY
Wen-mei Hwu, UIUC
Gearold Johnson, NTU
Yale Patt, U. Michigan
Andrew Wolfe, Princeton

MICRO PC (2008-2017)

0/16 women
0/16 URM
2/16 Asian
2/16 international: Toronto; TSMC, Taiwan
2+2/16 same institution: 2 MIT; 2 Georgia Tech

4/16 same lineage: Mlonuddin Quershi, Onur Mutlu, Sangja Patel, David August
0/16 same person

2017 Joel Emer NVIDIA and MIT
2017 Daniel Sanchez MIT
2016 Mikko Lipasti, Univ. Wisconsin
2016 Hsien-Hsin Lee, TSMC, Taiwan
2015 Moinuddin Qureshi, Georgia Tech
2014 Thomas F. Wenisch, University of Michigan
2014 Emre Ozer, ARM
2013 Christos Kozyrakis, Stanford University
2012 Onur Mutlu, Carnegie Mellon University*
2011 Andreas Moshovos, University of Toronto
2011 Milos Prvulovic, Georgia Institute of Technology
2010 Sanjay Patel, University of Illinois at Urbana-Champaign*
2009 David August, Princeton/Parakinetics*
2009 Jos Martnez, Cornell
2008 Paolo Faraboschi, HP Labs
2008 Steve Keckler, University of Texas at Austin

ISCA SC (2017, 2007, 1997)

2/21 women
0/21 URM
4/21 Asian
3/21 international: Seoul, France, UPC
2+2+2/21 same institution; 2 Illinois, 2 Intel, 2 Wisconsin; Illinois and Wisconsin by election
0/21 same lineage
2/21 same person: Joel Emer

2017 ISCA SC

Gabe Loh, AMD
Sang Lyul Min, Seoul National University
Andre Seznec, INRIA
Debbie Marr, Intel
Dave Albonesi, Cornell University
Sarita Adve, University of Illinois at Urbana-Champaign (elected as SIGARCH chair)
Dean Tullsen, University of California, San Diego
Josep Torrellas, University of Illinois at Urbana-Champaign
David Wood, University of Wisconsin-Madison (elected as SIGARCH previous chair)

2007 ISCA SC

Michel Dubois, USC
Joel Emer, Intel
Allan Gottlieb, NYU
Norm Jouppi, HP Labs

David Kaeli, Northeastern
Guri Sohi, Wisconsin
Mateo Valero, UPC

1997 ISCA SC

Joel Emer, DEC
Mike Flynn, Stanford
Allan Gottlieb, NYU
Yale Patt, Michigan
Guri Sohi Wisconsin

ISCA PC (2008-2017)

1/11 Women
0/11 URM
1/11 Asian
4/11 International: France, UPC, Technion, Intel Isreal
2+2/11 same institution; Illinois, Intel
2/11 same lineage: David Brooks, Margaret Martonosi
0/11 same person

2017 David Brooks, Harvard University
2016 Andre Seznec INRIA
2015 David Albonesi, Cornell
2014 Steve Keckler, NVIDIA/University of Texas at Austin
2013 Margaret Martonosi Princeton University
2012 Josep Torrellas University of Illinois
2011 Antonio Gonzalez Intel and UPC
2010 Uri Weiser, Technion
2010 Ronny Ronen, Intel
2009 Luiz Andr Barroso, Google
2008 Wen-Mei Hwu, University of Illinois

2017 ASPLOS SC (2017, 2007, 2002)

2002, 2000, 1998, 1996 SC not in proceedings

8/26 women
0/26 URM
5/26 Asian
2/26 international: Bilkent, Freiburg
2+2+2+3/26 same institution; Texas, Digital Equipment, Princeton, Wisconsin, by election
2+2/26 same lineage; Yuanyuan Zhou/Shan Lu; Mark Hill/Sarita Adve
0/26 same person

2017 ASPLOS SC

Sarita Adve, Illinois (elected SIGARCH)
Rajeev Balasubramonian, Utah

Tom Conte, Ga Tech
Al Davis, Utah
Sandhya Dwarkadas, Rochester
Kemal Ebcioglu (co-chair), consultatnt
Shan Lu, Chicago (elected SIGOPS)
Ozcan Ozturk (co-chair), Bilkent U
Peter Thiemann, Universitt Freiburg (elected SIGPLAN)
David Wood, Wisconsin (elected SIGARCH)
Yuanyuan Zhou, USCD

2008 ASPLOS SC

Margaret Martonosi (Princeton University, USA)
Jack Davidson (University of Virginia, USA) (elected SIGPLAN)
Kathryn McKinley (University of Texas, Austin, USA)
Mark Hill (University of Wisconsin, Madison)
Doug Burger (University of Texas, Austin, USA) (elected SIGARCH)
Kathleen Fisher (AT&T Labs) (elected SIGPLAN)
Norm Jouppi (HP Labs) (elected SIGARCH)
Keith Marzullo (University of California, San Diego) (elected SIGOPS)

2004 ASPLOS SC

Alan Berenbaum, Independent
Joel Emer, Dec Labs
Evelyn Dusterwald, IBM
Kourosh Gharachorloo, Dec Labs
Larry Peterson, Princeton
Larry Rudolph, MIT
David Wood, Wisconsin

ASPLOS PC (2008-2017)

4/10 women
0/10 URM
4/10 Asian
0/10 international
2/10 same institution: Illinois
0/10 same lineage
0/10 same person

2017 John Carter, IBM
2016 Yuanyuan Zhou University of California, San Diego, USA
2015 Sandhya Dwarkadas University of Rochester, USA
2014 Sarita Adve University of Illinois at Urbana-Champ
2013 Rastislav Bodik University of California, Berkeley, USA
2012 Michael L. Scott University of Rochester
2011 Todd C. Mowry Carnegie Mellon University
2010 Vikram S. Adve University of Illinois at Urbana-Champaign, USA

2009 Mary Jane Irwin Penn State University, USA

2008 James Larus Microsoft Research, USA

Kathryn S McKinley is a Senior Researcher at Google. She is currently SIGPLAN Secretary. She is a member of SIGMICRO, SIGARCH, IEEE TCCA, IEEE TCuARCH, and SIGPLAN. She serves on the board of CRA and CRA-W. She is an ACM and IEEE Fellow.