ASPLOS 2014

Welcome!

Goals

Move the field forward

Continue as a broad, multidisciplinary conference
Continue to raise the bar for quality in review process
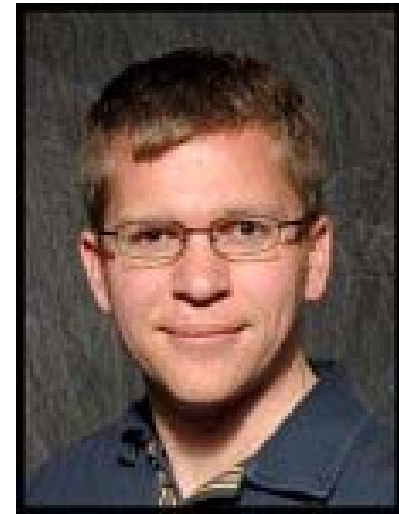
Tomorrow

ASPLOS 2014 Papers

- 49 accepted papers

  - 217 submissions, 12% increase from last year, new record!

  - 5 more accepted papers, same acceptance rate (coincidence)

- Topics
  - Data centers
  - Approximate computing
  - Security
  - Resource management
  - Software reliability
  - Heterogeneous computing
  - Virtualization
  - Transactional memory
  - Storage systems
  - Parallelism
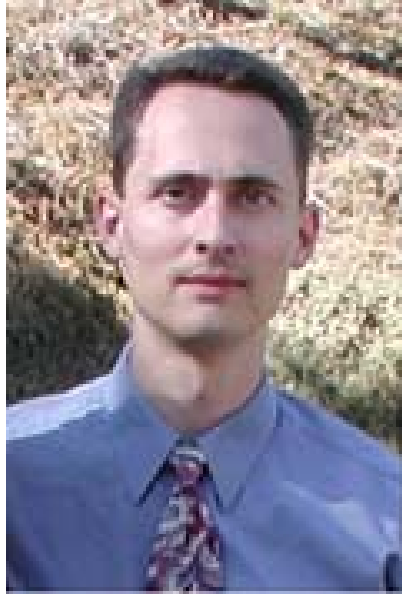 - …

All papers dual track

BUT …

Mitigating Dual Track Impact

- Lightning sessions
  - 90s trailer for each paper

- Posters for closer interaction (Tuesday@4:30)

Chair: John Regehr

Keynotes Today and Tomorrow

Monday

Brad Calder, Microsoft

Inside Windows Azure: The Challenges and
Opportunities of a Cloud Operating System

Tuesday

Jeff Gehlhaar, Qualcomm

Neuromorphic Processing:
A New Frontier in Scaling Computer Architecture

Wild and Crazy Ideas (WACI) and WACInote

Tuesday@5:30

WACInote

Josh Smith, Univ of Washington

RF-powered computing and communication

+ Seven WACI papers

Chairs: Luis Ceze, Karin Strauss

Other Tuesday Events

- Awards lunch
    - Best paper of ASPLOS 2014
    - Influential paper from an ASPLOS ten or more years ago

- Business meeting
    - Program chair's report
    - General chair's report
    - Next ASPLOS
    - Your feedback

Steering committee chair: Tim Harris

- Posters, WACI, Business meeting with drinks and food!

Wednesday Debate

Resolved: Specialized architectures, languages, and system software should largely supplant general-purpose alternatives within the next decade

Moderator: David Wood

Wednesday Debate

Pro Team

Con Team

Christos Kozyrakis

Chris Hughes

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Kunle O

ingali

Ed Bougnion

Emmett Witchel

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Some Announcements

- CACM Research Highlights (RH) Nominations

  - ASPLOS 2014 will forward a few papers for consideration for RH

    * Forward-looking, thought provoking

    * Interest to broad audience

    * May be imperfect, but create excitement and spirited discussions

  - Your input is needed!

  - Vote for 1 to 4 papers at https://www.surveymonkey.com/s/S886BMK

- Women

  - Lunch tables today with program chairs of ASPLOS'14,15, HPCA'14

THANKS!

Program Committee

Sarita Adve

David F. Bacon

Emery Berger

Francois Bodin

Calin Cascaval

Luis Ceze

Brad Chen

Trishul Chilimbi

Sandhya Dwarkadas

Krisztian Flautner

Tim Harris

Mark Hill

Mary Jane Irwin

Ravi Iyer

Martha Kim

Eddie Kohler

John Kubiatowicz

David Lie

Shan Lu

Debbie Marr

Margaret Martonosi

Kathryn S. McKinley

Santosh Nagarakatte

Satish Narayanasamy

Vijay Pai

Keshav Pingali

Partha Ranganathan

Karin Strauss

Martin Vechev

Carl Waldspurger

Tom Wenisch

Emmett Witchel

Lin Zhong

Yuanyuan Zhou

Willy Zwaenepoel

External Review Committee

Ole Agesen

Anastassia Ailamaki

Krste Asanovic

Tom Ball

Luiz Barroso

Rajeev Barua

Ricardo Bianchini

Rob Bocchino

Hans Boehm

Greg Bronevetsky

David Brooks

Angela Demke Brown

Mihai Budiu

Stephen Chong

Albert Cohen

Srini Devadas

Dave Dice

Chen Ding

Mattan Erez

Babak Falsafi

Stephen Freund

Xin Fu

Maria J. Garzaran

Ada Gavrilovska

Robert Geva

Ashvin Goel

Steven Gribble

Dan Grossman

Gernot Heiser

Tony Hosking

Wilson Hsieh

Chris Hughes

Hillery Hunter

Rebecca Isaacs

Mahmut Kandemir

Orran Krieger

Rakesh Kumar

E. Christopher Lewis

Kai Li

Geoff Lowney

Evangelos Markatos

Milo Martin

Jonathan McCune

Maged M. Michael

Todd Millstein

Tipp Moseley

Onur Mutlu

Andrew Myers

Edmund Nightingale

Li-Shiuan Peh

Milos Prvulovic

Feng Qin

Ravi Rajwar

Pradeep Ramachandran

Lawrence Rauchwerger

Mendel Rosenblum

Karu Sankaralingam

Simha Sethumadhavan

Mark Silberstein

Anand Sivasubramanian

Edward Suh

Steve Swanson

Josep Torrellas

Eric Tune

Amit Vasudevan

Kaushik Veeraraghavan

TN Vijaykumar

Adam Welc

Xiaolan Zhang

My Two Right Hands

Hyojin Sung

Rakesh Komuravelli

Submission chairs

The Wizards

Rajeev Balasubramonian

Al Davis

ENJOY THE CONFERENCE!