

# **CCGrid 2014 Proposal**

**Ioan Raicu**

**Computer Science Department, Illinois Institute of Technology  
Math and Computer Science Division, Argonne National Laboratory**

**CCGrid 2011 Steering Committee Meeting  
May 25<sup>th</sup>, 2011**



# Overview

- **What: Host CCGrid**
- **When: 2014**
- **Where: Chicago**
- **Who:**



- **Institutions:**

- Illinois Institute of Technology (IIT)
- Argonne National Laboratory (ANL)
- University of Chicago (UChicago)

ILLINOIS INSTITUTE  
OF TECHNOLOGY

Argonne  
NATIONAL LABORATORY



THE UNIVERSITY OF  
CHICAGO

- **General Chairs:**

- Xian-He Sun (IIT)
- Ian T. Foster (UChicago/ANL)



# Leadership and Organization

- **General Chairs:**

- Xian-He Sun, Computer Science Department, Illinois Institute of Technology
- Ian Foster, Computation Institute, University of Chicago and Argonne National Laboratory

- **Conference Manager and Finance Chair:**

- Julie Wulf-Knoerzer, Computation Institute

- **Local Organizing Committee:**

- Xian-He Sun, Illinois Institute of Technology
- Ian Foster, Computation Institute, University of Chicago, & Argonne National Laboratory
- Ioan Raicu, Illinois Institute of Technology & Argonne National Laboratory
- Pavan Balaji, Argonne National Laboratory

# Who am I?



- **Current position:**
  - Assistant Professor at Illinois Institute of Technology (CS)
  - Guest Research Faculty, Argonne National Laboratory (MCS)
- **Education:** PhD, University of Chicago, March 2009
- **Relation to General Chairs:**
  - Dr. Sun: CS Chair
  - Dr. Foster: PhD advisor
- **Role in CCGrid 2014:**
  - Local organizing committee member
- **Lead the Data-Intensive Distributed Systems Laboratory (DataSys)**
  - <http://datasys.cs.iit.edu/>
- **More info:** <http://www.cs.iit.edu/~iraicu/index.html>



# About Ian Foster

<http://www-fp.mcs.anl.gov/~foster/>

Many awards and titles:

– 1989: British Computer Society Award for Technical Innovation

– 1995: “father of grid computing”

– 1996: Globus Toolkit is released

– 1997: Global Information Infrastructure “Next Generation” Award

– 2001: Gordon Bell Award

– 2002: R&D Magazine’s Innovator of the Year, awards Globus “most promising new technology” of the year

– 2002: Lovelace Medal

– 2003: Infoworld Magazine awards “top 10 technology inovators”

– 2004: co-founder of Univa Corporation

– 2005: Network World: “The 50 most powerful people in networking”

– 2006: GridWorld “Industry Leadership Award”

– 2011: Distributed Computing Award - Tsutomu Kanai Award

– 2011: “top seven most influential computer scientists worldwide”

→ [h-index 90 \(http://www.cs.ucla.edu/~palsberg/h-number.html\)](http://www.cs.ucla.edu/~palsberg/h-number.html)



Award Number	Title	NSF Organization	Program(s)	Start Date	Principal Investigator	Co-Principal Investigator	Agency	Amount
0753328	Collaborative Research: Social... Demonstration Project: Enhancing Social... Software Engineering	OCT	CI TEAM	07/01/2008	Nestorov, Svetlozar	Foster, Ian	IL	
0742145	Accounting, Authentication, and... Accounting, Authentication, and... Software Engineering	OCT	CI TEAM	10/01/2007	Foster, Ian	Thoms, John; Hart, David; Milne, David	IL	
0721939	Software Engineering Research... Software and Engineering Workflow... Engineering	OCT	SOFTWARE DEVELOPEMENT FOR CI	09/01/2007	Wilde, Michael	Foster, Ian	IL	
0534113	Community-Driven Improvement of... Globus Software	OCT	NETWORK CENTRIC MIDDLEWARE SVC	12/01/2005	Foster, Ian		IL	
0509460	Collaborative Research:... Virtualized Computing... Distributed Computing Res	OCT	SYSTEMS	09/01/2005	Keahey, Katarzyna	Foster, Ian; Siebenlist, Frank	IL	
0503602	Collaborative Research:... Software Engineering	OCT	CI TEAM	09/01/2005	Foster, Ian	Stevens, Rick; Gannon, Dennis; Pennington, Dennis; Foster, Ian	IL	
0503697	Collaborative Research:... Software Engineering	OCT	CI TEAM	09/01/2005	Foster, Ian	Gannon, Dennis; Pennington, Dennis; Stevens, Rick; Foster, Ian	IL	
0330670	NMI: Disseminating and Supporting... Middleware Infrastructure: Engaging and... Engineering	OCT	ADVANCED NET INFRA & RSCH NETWORK CENTRIC MIDDLEWARE	10/01/2003	Butler, Randal	Livny, Miron; Kesselman, Carl; Papadopoulos, Philip	IL	
0321253	Collaborative Research:... Analysis Platform with Optical... Connectivity	CNS	MAJOR RESEARCH INSTRUMENTATION	09/01/2003	Gardner, Robert	Bertenthal, Bennett; Stevens, Rick; Foster, Ian; Clark, Terry	IL	\$1,186,405.00
0243349	Collaborative Research:... Software Engineering	OCT	CI TEAM	09/01/2000	Foster, Ian	Stevens, Rick; Gannon, Dennis; Pennington, Dennis; Foster, Ian	IL	\$30,000.00
0224187	Collaborative Research:... Distributed Optical Testbed to Facilitate... the of Techniques	CNS	CI TEAM	09/15/2002	Foster, Ian		IL	\$81,940.00
0233839	NMI Year Two Principal Investigator... Principal Investigator	CNS	ADVANCED NET INFRA & RSCH	08/01/2002	Foster, Ian		IL	\$43,214.00
0122296	Collaborative Research:... 21st Century Science and Engineering... Software Engineering	OCT	CI TEAM	08/01/2001	Foster, Ian	Stevens, Rick; Gannon, Dennis; Pennington, Dennis; Foster, Ian	IL	\$38,045,500.00
03321	Collaborative Research:... Software Engineering	OCT	CI TEAM	08/01/2001	Foster, Ian	Stevens, Rick; Foster, Ian	IL	\$6,000,000.00
0123961	Collaborative Research:... Deploying and Supporting a National... Middleware Infrastructure	OCT	NETWORK CENTRIC MIDDLEWARE	09/01/2001	Butler, Randal	Need, Daniel; Livny, Miron; Kesselman, Carl	IL	\$4,598,209.00
0117853	Collaborative Research:... Laboratory for Advanced Earthquake... and Simulation	CMMI	NETW. FOR EARTHQUAKE ENG SIMULAT	08/01/2001	Spencer, Billie	Bardet, Jean Pierre; Finholt, Thomas; Kesselman, Carl; Foster, Ian	IL	\$11,242,050.00
0084524	Collaborative Research:... Laboratory for Advanced Earthquake... Experimentation and Simulation	CMMI	NETW. FOR EARTHQUAKE ENG SIMULAT	08/15/2000	Spencer, Billie	Bardet, Jean Pierre; Finholt, Thomas; Kesselman, Carl; Foster, Ian	IL	\$300,000.00
9983299	Collaborative Research:... Software Engineering	OCT	CI TEAM	08/01/2000	Foster, Ian	Stevens, Rick; Gannon, Dennis; Pennington, Dennis; Foster, Ian	IL	\$514,171.00



# About Hian-He Sun

<http://www.cs.iit.edu/~scs/sun/>

- Chair of CS department at IIT
- Previously
  - Ames National Laboratory
  - ICASE
  - NASA Langley Research Center
  - US Navy Research Laboratories
  - Fermi National Accelerator Laboratory
  - Louisiana State University
- Research interests: parallel and distributed processing, system software, performance evaluation, and high end computing





Scalable Computing Software Laboratory

# SCS: Scalable Computing Software Laboratory

- **Research Focus**

- High performance computing and communication, especially in the design and prototype development of scalable software systems, where scalable software means software which can cooperate hundreds or more processes working collectively.

- **People**

- Dr. Xian-He Sun (Director)
- Dr. Zhiling Lan
- 2 Postdocs
- 1 Research Staff
- 11 PhD Students
- 2 MS Students



- **More information**

- <http://www.cs.iit.edu/~scs/home/home.html>



# DataSys: Data-Intensive Distributed Systems Laboratory

- **Research Focus**

- Emphasize designing, implementing, and evaluating systems, protocols, and middleware with the goal of supporting **data-intensive applications on extreme scale distributed systems**, from many-core systems, clusters, grids, clouds, and supercomputers

- **People**

- Dr. Ioan Raicu (Director)
- Tonglin Li (PhD Student)
- Xi Duan (MS Student)
- Raman Verma (Research Staff)
- 3 PhD and 1 UG students joining over the next several months

- **More information**

- <http://datasys.cs.iit.edu/>







Scalable Computing Software Laboratory

# CS/IIT: Department of Computer Science

- 18 tenure-track faculty members
- 28 total faculty members
- 200 undergrad students
- 400 graduate students



**XIAN-HE SUN**  
*Professor & Chair, Computer Science*  
Software systems; distributed & parallel processing; data-intensive computing.



**VIRGIL BISTRICEANU**  
*Instructor, Computer Science*  
Information security; agile software development; software testing; computer architecture.



**JON HANRATH**  
*Senior Instructor, Computer Science*



**SHANGPING REN**  
*Associate Professor, Computer Science*  
Real-time & distributed computing; cyber-physical systems; dependable & adaptive systems; programming languages & software engineering.



**CYNTHIA HOOD**  
*Associate Chair & Associate Professor of Computer Science & Engineering*  
Network & systems management; wireless networks; adaptive systems; innovation in education.



**EDWARD CHLEBUS**  
*Industry Associate Professor, Computer Science*  
Network modeling; teletraffic engineering; congestion control; wireless networks.



**SANJIV KAPOOR**  
*Professor, Computer Science*  
Computational economics & game theory; combinatorial optimization; computational geometry.



**MICHAEL SAELEE**  
*Instructor, Computer Science*



**BOGDAN KOREL**  
*Associate Chair & Associate Professor, Computer Science & Engineering*  
Software engineering; automated software system analysis; software reliability & testing.



**GRUIJA CALINESCU**  
*Associate Professor, Computer Science*  
Algorithms & approximation algorithms.



**GEORGE KOUTSOGIANNAKIS**  
*Instructor, Computer Science*



**JAMES SASAKI**  
*Senior Lecturer, Computer Science; Director, Graduate Professional Program*  
Programming languages; programming logics; operational semantics; evidence-based semantics.



**GADY AGAM**  
*Associate Professor, Computer Science*  
Advanced computational algorithms for visual computing; algorithms for computer vision; machine learning; pattern recognition.



**ROBERT CARLSON**  
*Professor, Computer Science & Information Technology*  
Relational databases; database design tools & methodologies; multi-model & distributed information systems.



**ZHILING LAN**  
*Associate Professor, Computer Science*  
Parallel & distributed systems.



**MARIUS SONERU**  
*Senior Lecturer, Computer Science*



**SHLOMO ARGAMON**  
*Associate Professor, Computer Science*  
Machine learning; computational linguistics, stylistics, & information retrieval.



**TZILLA ELRAD**  
*Research Professor, Computer Science*  
Concurrent programming; aspect-oriented software development; formal modeling & verification; software adaptability & reuse.



**FRANCIS LEUNG**  
*Industry Professor, Computer Science*  
Software engineering; operating systems & networks; programming languages; AI; software verification.



**PENG-JUN WAN**  
*Professor of Computer Science & Engineering*  
Wireless networks; optical networks; algorithm design & analysis.



**MATTHEW BAUER**  
*Senior Lecturer, Computer Science; Computer Science Director of Undergraduate Programs; Director of Undergraduate Academic Advising*



**OPHIR FRIEDER**  
*Research Professor, Computer Science*  
Scalable information systems.



**XIANG-YANG LI**  
*Associate Professor, Computer Science*  
Algorithm design & analysis for networks; wireless sensor networks; computational geometry; game theory.



**VIDA WINANS**  
*Senior Instructor, Computer Science; Graduate Coordinator*



**A. MATTOX BECKMAN**  
*Senior Lecturer, Computer Science*  
Formal methods; partial evaluation; machine learning; functional programming languages.



**DAVID GROSSMAN**  
*Associate Professor, Computer Science*  
Information retrieval; integrating structured & unstructured data; data mining.



**EDWARD REINGOLD**  
*Professor, Computer Science*  
Analysis of algorithms & data structures; calendars.



**WAI GEN YEE**  
*Assistant Professor, Computer Science*  
Collaborative information systems; distributed database systems; search engines.

# Distributed Systems Laboratory

## University of Chicago

[http://dsl-wiki.cs.uchicago.edu/index.php/Main\\_Page](http://dsl-wiki.cs.uchicago.edu/index.php/Main_Page)

- Lead by Dr. Ian Foster
- Research Areas:
  - Distributed systems
  - Grid middleware
  - Grid applications
  - Designing, implementing, and evaluating systems, protocols, and applications
  - Data-intensive scientific computing
- People:
  - 1 faculty (Dr. Ian Foster)
  - 11 students
  - 2 research staff
  - 16 alumnis





# Computation Institute University of Chicago

<http://www.ci.uchicago.edu/index.php>

- **People:**

- Director: Ian Foster
- 100+ faculty, scientists, staff, and students

- **Focus**

- Deep Supercomputing
- Data Intensive Computing
- Next Generation Cybertools

- **Many high-impact projects**

- Open Science Grid
- TeraGrid
- Globus
- Social Informatics Data Grid
- CBC: Chicago Biomedical Consortium
- National Microbial Pathogen Research Center
- CIM-EARTH: A Community Integrated Model of Economic and Resource Trajectories for Humankind
- ASC FLASH: ASC / Alliances Center for Astrophysical Thermonuclear Flashes
- MWT2: ATLAS Midwest Tier 2 Center
- PADS: PetaScale Active Data Store
- Text Mining





# Math and Computer Science Div.

## Argonne National Laboratory

<http://www.mcs.anl.gov/index.php>

- People:

- Over 180 staff, researchers, scientists, developers

- Research Areas

- Algorithms, Software, and Applications
- Parallel Tools
- Distributed Systems Research
- Collaborative and Virtual Environments
- Computational Science

- Many high-impact projects

- TeraGrid (largest national cyber-infrastructure project)
- Globus Toolkit (defacto Grid Computing middleware)
- MPI (synonymous with HPC and Supercomputing)
- PVFS (scalable and high performance parallel file system)

Mathematics and Computer Science Division

The MCS Division is increasing scientific productivity in the 21st century by providing intellectual and technical leadership in the computing sciences.

Mathematics and Computer Science Division

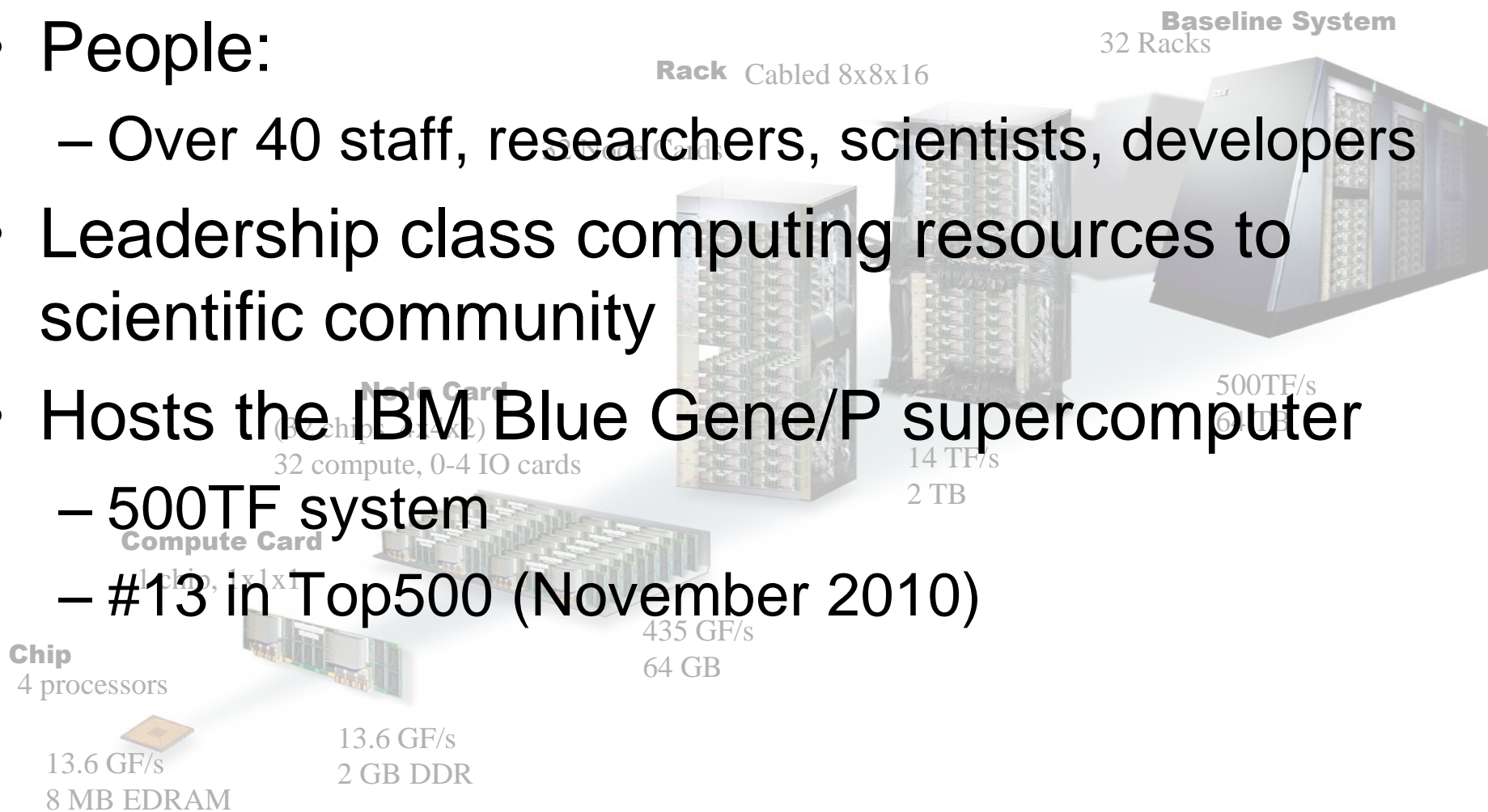
The MCS Division is increasing scientific productivity in the 21st century by providing intellectual and technical leadership in the computing sciences.

# Argonne Leadership Computing Facility

## Argonne National Laboratory

<http://www.alcf.anl.gov/>

- People:
  - Over 40 staff, researchers, scientists, developers
- Leadership class computing resources to scientific community
- Hosts the IBM Blue Gene/P supercomputer
  - 500TF system
  - #13 in Top500 (November 2010)



# Relevant Conferences

- **eScience:** [IEEE e-Science Conference](#), 2012
- **HPDC:** [ACM Int. Symposium on High Performance Distributed Computing](#), 1998, 2000, 2001, [2010](#), [2011](#)
- **CCA:** [Cloud Computing and Its Applications Conference](#), 2008, 2009, 2011
- **GlobusWORLD:** GlobusWorld Conference, 2003-2011
- **GRID:** [ACM/IEEE International Conference on Grid Computing](#), 2011
- **SC:** IEEE SuperComputing Conference, 2003.
- **NCA:** International Symposium on Network Computing and Applications, 2005
- International Conference on Information Technology and Sustainable Development, 2005
- **SoCAPS** Symposium: Being Professors in the USA & Promoting International Collaboration, 2005
- **ICPP:** International Conference on Parallel Processing, 2004
- IEEE Symposium on the Frontiers of Massively Parallel Computations 1999
- PDEs on the Sphere Conference 1994



# Relevant Workshops

- [DataCloud: IEEE Int. Workshop on Data-Intensive Computing in the Clouds \(at IPDPS\), 2011](#)
- [MTAGS: ACM Workshop on Many-Task Computing on Grids and Supercomputers \(at SC\), 2008, 2009, 2010, 2011](#)
- [ScienceCloud: ACM Workshop on Scientific Cloud Computing \(at HPDC\), 2010, 2011](#)
- IIT-IBM Cloud Computing in Education Workshop, 2010
- China HPC Workshop (co-located with IEEE/ACM Supercomputing), 2010
- [DSLW: Distributed Systems Laboratory Workshop, 2006, 2007, 2008, 2009](#)
- NSF Workshop on Building Effective Virtual Organizations, 2007, 2008
- International Provenance and Annotation Workshop, 2002, 2006
- International Workshop on Performance Analysis and Optimization of High-End Computing Systems (at IEEE SC), 2006
- **GCC**: International Workshop on Grid and Cooperative Computing, 2003.
- DARPA/DOE/NASA/DOE Computational Grids Workshop 1997
- DARPA/NSF Workshop on Performance 1996

# Relevant Journals

- **JGC**: [Journal of Grid Computing](#), 2003-2011
- **TPDS**: [IEEE Transactions on Parallel and Distributed Systems](#), 2009 – 2011
- **JPDC**: Cluster computing: Journal of Parallel and Distributed Computing, 2006 - 2011
- **JoCCASA**: [Journal of Cloud Computing Advances, Systems and Applications \(Springer\)](#), 2011
- **SPJ**: [Scientific Programming Journal](#), 2011
- Journal of Performance Evaluation and Modeling for Computer Systems
- **IJHPCN**: International Journal of High Performance Computing and Networking
- **IJGUG**: International Journal of Grid and Utility Computing
- International Journal of Web Services Research
- Journal of Supercomputing

# Chicago is a Central Hub for Grid and Cloud Computing

- Chicago is arguably the world's most connected city, housing the StarLight international network connection point
- Many top universities (ordered by distance):
  - University of Illinois at Chicago
  - University of Chicago
  - Illinois Institute of Technology
  - DePaul University
  - Northwestern University
  - University of Illinois at Urbana Champaign
  - Purdue University
  - University of Wisconsin Madison
  - University of Notre Dame
  - Indiana University
  - Michigan State University
  - University of Michigan
- Government labs:
  - Argonne National Laboratory
  - Fermi National Laboratory



# Potential Local People for Various Chairs and Committees

- **Argonne National Laboratory**
  - David Martin
  - Rajeev Thakur
  - Pavan Balaji
  - Kate Keahey
  - Mike Papka
  - Rick Stevens
  - Ravi Maduri
  - Rob Ross
- **University of Chicago**
  - Andrew Chien
  - Bob Grossman
  - Dan Katz
  - Borja Sotomayor
- **University of Illinois at Urbana Champaign**
  - Gabriel Mateescu
  - Jim Myers
  - Marc Snir
  - Roy Campbell
  - William Gropp
  - Shaowen Wang
- **Northwestern University**
  - Alok Choudhary
  - Joe Mambretti
  - Peter Dinda
- **Fermi National Labs**
  - Catalin Dumtrescu
  - Gabriele Garzoglio
  - Don Holmgren
  - Ruth Pordes
- **Indiana University**
  - Geoffrey Fox
  - Gregor von Laszewski
  - Judy Qiu
- **University of Wisconsin Madison**
  - Miron Livny
  - Remzi Arpaci-Dusseau
- **Wayne State University**
  - Shiyong Lu
  - Weisong Shi
- **Illinois Institute of Technology**
  - Zhiling Lan
- **University of Notre Dame**
  - Douglas Thain
- **University of Minnesota**
  - Abhishek Chandra

# Potential International People for Various Chairs and Committees

- Adriana Iamnitchi, University of South Florida
- Alexandru Iosup, Delft University of Technology, Netherlands
- Bernard Traversat, Oracle
- Bill Howe, University of Washington
- Brian Cooper, Google
- Craig Lee, Aerospace Corp., USA.
- Dan Reed, Microsoft Research
- Daniel Zinn, University of California at Davis
- David Abramson, Monash University, Australia
- David O'Hallaron, Carnegie Mellon University & Intel Labs
- Dennis Gannon, Microsoft Research, USA
- Dick Epema, Technical University of Delft, The Netherlands
- Ed Lazowska, University of Washington & Computing Community Consortium
- Erwin Laure, CERN, Switzerland
- Ewa Deelman, University of Southern California, USA
- Florian Schintke, Zuse institute Berlin, Germany
- Franck Cappello, INRIA/UIUC, France/United States.
- Henri Casanova, University of Hawaii at Manoa
- Henri, Bal, Vrije Universiteit, Amsterdam, Netherlands.
- Hyunjoo Kim, Rutgers University, USA.
- Ian Taylor, Cardiff University, UK
- Ignacio Llorente, Open Nebula, Universidad Complutense de Madrid, Spain
- Ion Stoica, University of California Berkeley
- Ivona Brandic, Vienna University of Technology, Austria.
- Jack Dongarra, University of Tennessee, USA
- James Hamilton, Amazon Web Services
- Jeff Broughton, Lawrence Berkeley National Lab.
- Jeff Chase, Duke University
- John Bent, Los Alamos National Laboratory
- Jose Moreira, IBM Research
- Josh Simons, VMware
- Surendra Byna, Lawrence Berkeley National Laboratory
- Zhiwei Xu, Institute of Computing Technology, China
- Qian Depei, Beijing University of Aeronautics and Astronautics, China
- Nong Xiao, National University of Defense Technology, China
- Kirk W. Cameron, Virginia Tech
- Kento Aida, National Institute of Informatics, Japan.
- Lavanya Ramakrishnan, Lawrence Berkeley Nat. Lab.
- Liang-Jie Zhang, IBM Research
- Manish Parashar, Rutgers University, USA.
- Maria Indrawan, Monash University, Australia
- Marty Humphrey, University of Virginia, United States.
- Matei Ripeanu, University of British Columbia, Canada
- Murat Demirbas, University at Buffalo
- Paolo Missier, University of Manchester, UK
- Peter Kacsuk, Hungarian Academy of Sciences, Hungary
- Rajkumar Buyya, University of Melbourne, Australia.
- Reagan Moore, Univ. of North Carolina, Chapel Hill
- Renato Figueiredo, University of Florida, United States.
- Rich Wolski, University of California, Santa Barbara
- Roger Barga, Microsoft Research
- Rong Ge, Marquette University
- Rong N. Chang, IBM Research
- Ruben Montero, Univ. Complutense de Madrid, Spain
- Shantenu Jha, Louisiana State University
- Steven Ko, University at Buffalo
- Tefvik Kosar, Louisiana State University
- Umit Catalyurek, Ohio State University
- Viktor Prasanna, University of Southern California
- Yong Chen, Texas Tech University
- Yong Zhao, University of Electronic and Science Technology of China
- Shaowen Wang, University of Illinois at Urbana-Champaign

# Hotel Venue

## Hyatt Regency Chicago

- [Hyatt Regency Chicago Factsheet](#)
  - 151 East Wacker Drive, Chicago, Illinois USA 60601
  - [Photo Gallery](#)
  - Google Earth Demo
- Some highlights:
  - Situated on the Chicago River near Chicago's Magnificent Mile
  - Near world-class shopping, entertainment and commerce centers
  - Easy walk or cab ride to the city's best theater, museums, and cuisine as well as Grant and Millennium Parks, Lake Michigan beaches, Navy Pier and Michigan Avenue
  - 2000+ guest rooms
  - 228K square feet of meeting space over 63 rooms
  - 12 miles from Chicago Midway Airport and 18 miles from Chicago O'Hare Airport





# Dates

- Proposed dates: May 19<sup>th</sup> to 22<sup>nd</sup>, 2014.
  - May is one of the most wonderful months of the year to visit Chicago. The average high in Chicago is 69 F (20 C) and the average low is 49 F (9 C), with generally low humidity during this time of the year.
  - May in Chicago is a great month, as the warmer weather finally starts to hold, the Chicago beaches open, and summer is right around the corner.
- We will use Easychair software to manage paper submissions
- Timeline:
  - Workshop Proposals Due: October 1, 2013
  - Workshop Notification: October 6, 2013
  - Submission Deadline: Dec. 3, 2013
  - Acceptance Notification: Jan. 24, 2014
  - Camera-Ready Version Due: Feb. 21, 2014
  - Tutorial Submissions Due: March 4, 2014
  - Author Registration Deadline: March 21, 2014
  - Workshops: May 19, 2014
  - Main Conference: May 19-22, 2014

# Costs

- **Registration:**
  - We anticipate registration rates to be consistent with past years and will adhere to IEEE rules and regulations. Every effort will be made to pursue sponsorship to offset attendee costs.
- **Accommodations:**
  - We expect the sleeping room rate at the Hyatt Regency Chicago to be around \$200 a night plus taxes
- **Funding Support:**
  - Funding support will be solicited from industry and research partners who are active and/or interested in cluster, grid, and cloud computing
  - Goal is to raise \$50,000 in financial and in-kind contributions
  - We anticipate approaching Cray, IBM, Microsoft Research, Accenture, and Google, as well as local research partners such as the University of Chicago, Argonne National Laboratory, Illinois Institute of Technology, and Fermi National Laboratory

# Attractions

- Sears Tower Skydeck: [www.the-skydeck.com](http://www.the-skydeck.com)
- Millennium Park: [www.milleniumpark.org](http://www.milleniumpark.org)
- Magnificent Mile Shopping: <http://www.themagnificentmile.com/shopping.cfm>
- John Hancock Center Observatory: <http://www.hancock-observatory.com/en/>
- Museum of Science and Industry: <http://www.msichicago.org/>
- Adler Planetarium & Astronomy Museum <http://www.adlerplanetarium.org/>
- The Art Institute Of Chicago <http://www.artic.edu/aic/>
- Frank Lloyd Wright Architecture <http://www.oprf.com/flw/>
- Garfield Park Conservatory: <http://www.garfield-conservatory.org/>
- Grant Park And Buckingham Fountain: [http://en.wikipedia.org/wiki/Grant\\_Park\\_%28Chicago%29](http://en.wikipedia.org/wiki/Grant_Park_%28Chicago%29)
- Lincoln Park Conservatory: [http://www.chicagoparkdistrict.com/index.cfm/fuseaction/parks.detail/object\\_id/45AA3ED2-7C6F-4461-83B2-29CB991637E6.cfm](http://www.chicagoparkdistrict.com/index.cfm/fuseaction/parks.detail/object_id/45AA3ED2-7C6F-4461-83B2-29CB991637E6.cfm)
- Lincoln Park Zoo: <http://www.lpzoo.com/>
- Joffrey Ballet: <http://www.joffrey.com/index.asp>
- Lookingglass Theatre Company: <http://www.lookingglasstheatre.org/content/>
- Steppenwolf: <http://www.steppenwolf.org/>
- Black Ensemble Theater: <http://www.blackensembletheater.org/>
- Buddy Guy's Legends: [www.buddyguys.com](http://www.buddyguys.com), located in the South Loop
- Lee's Unleaded Blues: <http://www.rosaslounge.com/>, stationed in Grand Crossing
- Rosa's Lounge: [www.rosaslounge.com](http://www.rosaslounge.com), situated in Logan Square
- B.L.U.E.S.: <http://www.chicagobluesbar.com/>, set in Lincoln Park
- The Green Mill: <http://www.greenmilljazz.com/?>
- The Original Mother's: <http://www.rushanddivision.com/mothers.html>
- Second City: <http://www.secondcity.com/>
- Sound-Bar: <http://sound-bar.com/>
- Hothouse: <http://hothouse.net/programs/upcoming.jsp>
- Pump Room: <http://pumproom.com/>
- Davenport's Piano Bar: <http://www.davenportspianobar.com/>



# City of Chicago

[http://www.youtube.com/watch?annotation\\_id=annotation\\_403323&feature=iv&v=Uj8p80SsB7M](http://www.youtube.com/watch?annotation_id=annotation_403323&feature=iv&v=Uj8p80SsB7M)

# More Information

- **Host Institutions:**

- Illinois Institute of Technology (<http://www.iit.edu/>)
  - Department of Computer Science: <http://www.iit.edu/csl/cs/>
  - Scalable Computing Software Laboratory: <http://www.cs.iit.edu/~scs/home/home.html>
  - Data-Intensive Distributed Systems Laboratory: <http://datasys.cs.iit.edu/>
  - Dr. Xian-He Sun: <http://www.cs.iit.edu/~scs/sun/>
  - Dr. Ioan Raicu: <http://www.cs.iit.edu/~iraicu/>
- University of Chicago (<http://www.uchicago.edu/index.shtml>)
  - Department of Computer Science: <http://www.cs.uchicago.edu/>
  - Computation Institute: <http://www.ci.uchicago.edu/>
  - Distributed Systems Laboratory: [http://dsl-wiki.cs.uchicago.edu/index.php/Main\\_Page](http://dsl-wiki.cs.uchicago.edu/index.php/Main_Page)
  - Dr. Ian Foster: <http://www.cs.uchicago.edu/people/foster>
- Argonne National Laboratory (<http://www.anl.gov/index.html>)
  - Mathematics and Computer Science Division: <http://www.mcs.anl.gov/index.php>
  - Argonne Leadership Computing Facility: <http://www.alcf.anl.gov/>
  - Distributed Systems Laboratory: [http://www.mcs.anl.gov/research/group\\_detail.php?id=5](http://www.mcs.anl.gov/research/group_detail.php?id=5)
  - Dr. Ian Foster: [http://www.mcs.anl.gov/about/people\\_detail.php?id=285](http://www.mcs.anl.gov/about/people_detail.php?id=285)