

Sustainable C*omputing

REGISTER

Monthly newsletter of the IEEE Computer Society Special Technical Community on Sustainable Computing
Providing quick access to timely information on sustainable computing.

<http://www.linkedin.com/groups/IEEE-STC-on-Sustainable-Computing-4092681>

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<http://stc-sustainable-computing.ieee.net/members>

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Due to the holidays and end of the academic semester, this month's newsletter is abbreviated.

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Chair's Report

Some exciting news this month, as Microsoft announced a \$5.5M pilot project to locate a data center at a municipal waste treatment plant, to power the data center with biogas [1]. Having worked on this topic in the past [2], I am particularly interested in the insights that will be gained from actually building a biowaste-powered data center. This project is a concrete (no pun intended) example of the growing importance of sustainable computing.



In STC-specific news, we are working closely with the Computer Society staff to enable new methods of operating the STC. Our objective is to explore different ideas that should improve the value our STC provides to members. Stay tuned for updates in future issues of the Register.

Lastly, a priority for 2013 will be increasing the participation of members in the activities of the STC. If you have ideas that you think would encourage others to get more involved, please let myself or any of the officers know; we would really appreciate hearing from you!

Thanks,

Martin

[1] <http://www.globalfoundationservices.com/posts/2012/november/19/microsoft-recycles-waste-to-provide-clean-power-for-data-center-r-and-d.aspx>

[2]<http://www.hpl.hp.com/techreports/2011/HPL-2011-14.html>

Nominations are Open!

The Sustainable Computing Register features a Pick of the Month, a research publication or industry project that has significantly advanced the field of sustainable computing. The goal is to increase awareness within our community about transformative research.

Send nominations to Christopher Stewart, Editor

Officers

Co-Chair: Martin Arlitt, University of Calgary/HP La

Co-Chair: Ishfaq Ahmad, Univ. of Texas at Arlington

Secretary/Treasurer: Giuliano Casale, Imperial College

Conferences Chair:

Diwakar Krishnamurthy, University of Calgary

Academic Chair:

Niklas Carlsson, Linköping University

Membership Chair: Anirban Mahanti, NICTA

Vice Membership Chair:

Sergey Blagodurov, Simon Fraser University

Communications Chair:

Abhishek Chandra, University of Minnesota

Policies and Procedures: Stephen Dawson, SAP

Industry Chair: Canturk Isci, IBM

Newsletter Editor:

Christopher Stewart, The Ohio State University

Webmaster:

Raoufhsadat Hashemian, University of Calgary

Information Officer:

David Carrera, Universitat Politècnica de Catalunya

Information Officer:

Danilo Ardagna, Politecnico di Milano

Information Officer:

Fan Dongrui, Institute of Computing Technology

Information Officer: Guillaume Jourjon, NICTA

STC Updates



By Giuliano Casale, Imperial College

Membership: 312

Report from Secretary/Treasurer (Giuliano Casale):

- Collected officers' activity reports and prepared monthly STC report.
- Contacted IEEE board about financial regulations on setting up agreements with external organizations.

Report from Conferences Chair (Diwakar Krishnamurthy):

- Solicited collaborations from MICRO-45, Middleware 2012, CloudCom 2012, and HiPC 2012.
- Initiated plans with vice-chair conferences on facilitating more interactive conference/research.

Report from Academic Chair (Niklas Carlsson):

- Contacted with Industry Chair candidates for our short-feature article that will showcase them and their work. We have also updated the student award and created a call for applications. HP will sponsor the award.

Report from Membership Chairs (Anirban Mahanti and Sergey Blagodurov):

- Preparing contact list for CloudCom to send invites to join STC-SC to people in the list.
- Counted the number of members every week for the past month.
- Organizing call with newsletter editor for discussing engagement with our members.

Report from Communications Chair (Abhishek Chandra):

- Continued to identify conferences, workshops and journals relevant to sustainable computing.
- Prepared a spreadsheet with information about upcoming call for papers and call for participation.
- Bhuvan Uргаonkar accepted to serve as vice communications chair.

Report from Policies and Procedures Chair (Stephen Dawson):

- Documenting STC-SC processes and gathering requirements for future processes.
- Looking for a vice officer.

Report from Industry Chair (Canturk Isci):

- Worked with the Academic Chair on the final draft of the STCSC student award Call for Applications
- Followed up with academia contacts on the STC Community Highlights feature

Report from Information Officers (Danilo Ardagna, Fan Dongrui, Guillaume Jourjon, David Carrera):

- Contributed material for newsletter and blogs.

Report from the Newsletter Editor (Christopher Stewart):

- Improving the newsletters web presence

Upcoming Events

By Abhishek Chandra, University of Minnesota



The following venues are all requesting submissions on subtopics related to sustainable computing or IT for sustainability.

Conference, Workshop & Symposium Call For Papers

Short Name	Main Topic	Location	Dates	Abstracts Due	Papers Due
<i>SIGMETRICS</i>	<i>Performance Evaluation</i>	<i>Pittsburgh, PA, USA</i>	<i>Jun. 17-21, 2013</i>	<i>Nov. 2, 2012</i>	<i>Nov. 9, 2012</i>
CCGrid	Cluster, Cloud and Grid Computing	Delft, Netherlands	May 13-16, 2013		Nov. 12, 2012
ICDCS	Distributed Computing Systems	Philadelphia, USA	Jul. 8-11, 2013		Nov. 12, 2012
ENERGY 2013	Smart Grids, Green Communications	Lisbon, Portugal	Mar. 24-29, 2013		Nov. 12, 2012
ISCA	Computer Architecture	Tel Aviv, Israel	Jun. 23-27, 2013	Nov. 14, 2012	Nov. 21, 2012
SEIT 2013	Sustainable Energy IT	Halifax, Canada	Jun. 25-28, 2013	Dec. 20, 2012	
HPDC	High Performance Distributed Computing	New York, USA	Jun. 17-21, 2013	Jan. 14, 2013	Jan. 21, 2013
USENIX ATC	Computer Systems	San Jose, CA, USA	Jun. 26-28, 2013	Jan. 23, 2013	Jan. 30, 2013
GreenMetrics	Sustainable Computing	Pittsburgh, PA, USA	Jun. 17, 2013		Apr. 15, 2013

Journal and Special Issue Call For Papers

Sustainable Computing

Conference, Workshop & Symposium Call for Participation

Short Name	Main Topic	Location	Dates
<i>CGC 2012</i>	<i>Cloud and Green Computing</i>	<i>Xiangtan, China</i>	<i>Nov. 1-3, 2012</i>
<i>UCC 2012</i>	<i>Utility and Cloud Computing</i>	<i>Chicago, IL, USA</i>	<i>Nov. 5-8, 2012</i>
<i>GreeNETS 2012</i>	<i>Green Communications and Networking</i>	<i>Gandia, Spain</i>	<i>Oct. 24-26, 2012</i>
<i>SC'12</i>	<i>Supercomputing</i>	<i>Salt Lake City, USA</i>	<i>Nov. 10-16, 2012</i>
GreenCom	Green Computing and Communications	Besancon, France	Nov. 20-23, 2012

Visit <http://stc-sustainable-computing.ieee.net/venues> for more information.

To advertise a relevant venue, email Abhishek Chandra at chandra@cs.umn.edu.

To purchase a printed copy of the Register visit <http://www.magcloud.com/>

Sustainable Computing: Informatics and Systems

The journal for sustainable computing research

Sustainable computing research spans computer science, electrical engineering, sustainability science, and many other engineering disciplines. SUSCOM publishes research findings related to energy-aware and thermal-aware management of computing resources, as well as research on the ecological and societal impacts of computing.

Now accepting submissions.