

# Sci comp seminar startup meeting minutes Mar 7 2011

Present: Henry van den Bedem, Joe Blaylock, Arno Candel, Igor Gaponenko, Chris O'Grady, Vineet Rawat, Bebo White

At the start of the meeting, Arno presented the following collection of great candidates (Thanks for everyone's suggestions):

\*\*\*\*\*  
\*\*\*\*\*

Candidates as of March 7 2011:

Horst Simon suggests:

- \* himself (Deputy Lab director – LBNL, Director NERSC) – Status of HPC in the US
- \* Peter Nugent (Group leader - LBNL) – Cosmology
- \* Julian Borrill (Staff scientist - LBNL) – Cosmology
- \* Jamie Sethian (Prof. - UC Berkeley) – General Applied Math and Sci Comp
- \* Filipe Maia (Postdoc - LBNL) – GPUs/Hawk
- \* Jim Demmel (Prof. - UC Berkeley) - Optimizing Performance by Avoiding Communication
- \* Andrew Canning (Sen. Staff - LBNL) - Mat Science on Many Core Architectures (PARATEC)
- \* Sam Williams (PhD08 - LBNL) - Auto-Tuning Memory-Intensive Kernels for Multicore

Jakec Becla suggests:

- \* Jeff Hammerbacher (wall street, facebook, cloudera,  
see <http://www.accel.com/bio/jeffhammerbacher.php>)
- \* Oliver Ratzesberger (director of eBay analytics)

Travis Brooks suggests:

- \* Facebook Data Science group (friends visualization etc)
- \* Eugene Kim (Wikimedia strategic planning)

Igor Gaponenko suggests:

- \* David Patterson (CS Prof. - UC Berkeley)

Co-founder of ParLab @ UC Berkeley, Led the design of RISC 1 -> SPARC, Leader of RAID project. National Academy of Engineering, National Academy of Sciences, etc.

Henry van den Bedem suggests:

- \* Tony DeRose from Pixar <http://graphics.pixar.com/people/derose/index.html>.
- \* Mohammed AlQuraishi (Stanford) "De novo inference of protein-DNA energy potentials using compressed sensing"

Bebo White suggests:

- \* Danese Cooper – Wikimedia CTO
- \* Leo Paporte (leoville.com) – Online Social Media
- \* Jeff Johnson – Book "Designing with the Mind in Mind" (About Interfaces)

\*\*\*\*\*  
\*\*\*\*\*

During and after the meeting, a few new recommendations were made:

Henry suggested:

- \* Mike Huffer (SLAC, RCE for LSST/ATLAS)
- \* Todd Martinez (SLAC, GPUs for chemistry)
- \* SUNCAT (SLAC, catalysts for clean energy created using computational methods)

Igor suggested:

\* Anton Barty (DESY Germany, work on LCLS imaging):

[https://slacportal.slac.stanford.edu/sites/ad\\_public/events/FLS2010/Lists/WorkingGroup4/Attachments/23/Anton\\_Optics.pdf](https://slacportal.slac.stanford.edu/sites/ad_public/events/FLS2010/Lists/WorkingGroup4/Attachments/23/Anton_Optics.pdf)

<http://www.nature.com/nphoton/journal/v2/n7/pdf/nphoton.2008.128.pdf>

\* Garth Williams (LCLS Coherent X-ray Imaging) - he agreed to give the first talk!

----

#### **MEETING OUTCOME:**

1) We agreed that while the content should stay mostly in line with SLAC's research programs, a healthy mix of more general (but still strongly computing related) talks from outside speakers would greatly improve the changes for overall success. Ratio 2:1 or so.

2) Frequency: Monthly OK, gives us freedom to sprinkle in the occasional surprise speaker

3) Time and location does not have to be strictly fixed, since it's monthly, people might forget / don't care. We prefer the Kavli auditorium, if available.

4) Which day?

Monday: ruled out because of weekly colloquium at 4PM

**Tuesday: 4PM - confirmed**

Wednesday: ruled out because of weekly LCLS seminar (around 3PM)

Thursday: 3PM OK?

Friday: ruled out because of proximity to weekend

5) Proposed time line and speakers for the first few seminars:

- Tue April 26 4PM: **Garth Williams (LCLS Coherent X-ray Imaging) - confirmed**
- Tue May 17 4PM: **Mike Huffer (LSST storage) - PENDING**
- Tue June 6 4PM: **Ralf Kaehler (Cosmology visualization, including a tour to the 3D visualization room upstairs from Kavli auditorium) - confirmed**
- Late June (date TBD): sci comp workshop: **Gergely Zimanyi (Prof. UC Davis, Memristors) (Thanks Imre) - confirmed**
- End of June: 4th seminar: **Anton Barty (LCLS, Imaging - pending availability \*see below)**

-----

#### **ACTION ITEMS:**

\* SCSC members to decide on the time slot. **DONE. Tuesday 4PM**

\* Henry to check with Pixar

\* **UPDATE Mar 9 (Thanks Igor):** Anton is interested in giving a talk, but won't be here late May/early June. Quoting Anton: "Our next round of experiments at LCLS will be in late June (I'm scheduled to leave LCLS before July 3). I don't think there's any reason for me to be over SLAC way before then."

\* **Arno: Wait for feedback from SCSC members, then contact the first few speakers**