Annual Concurrency Forum Welcome and Meeting Goals

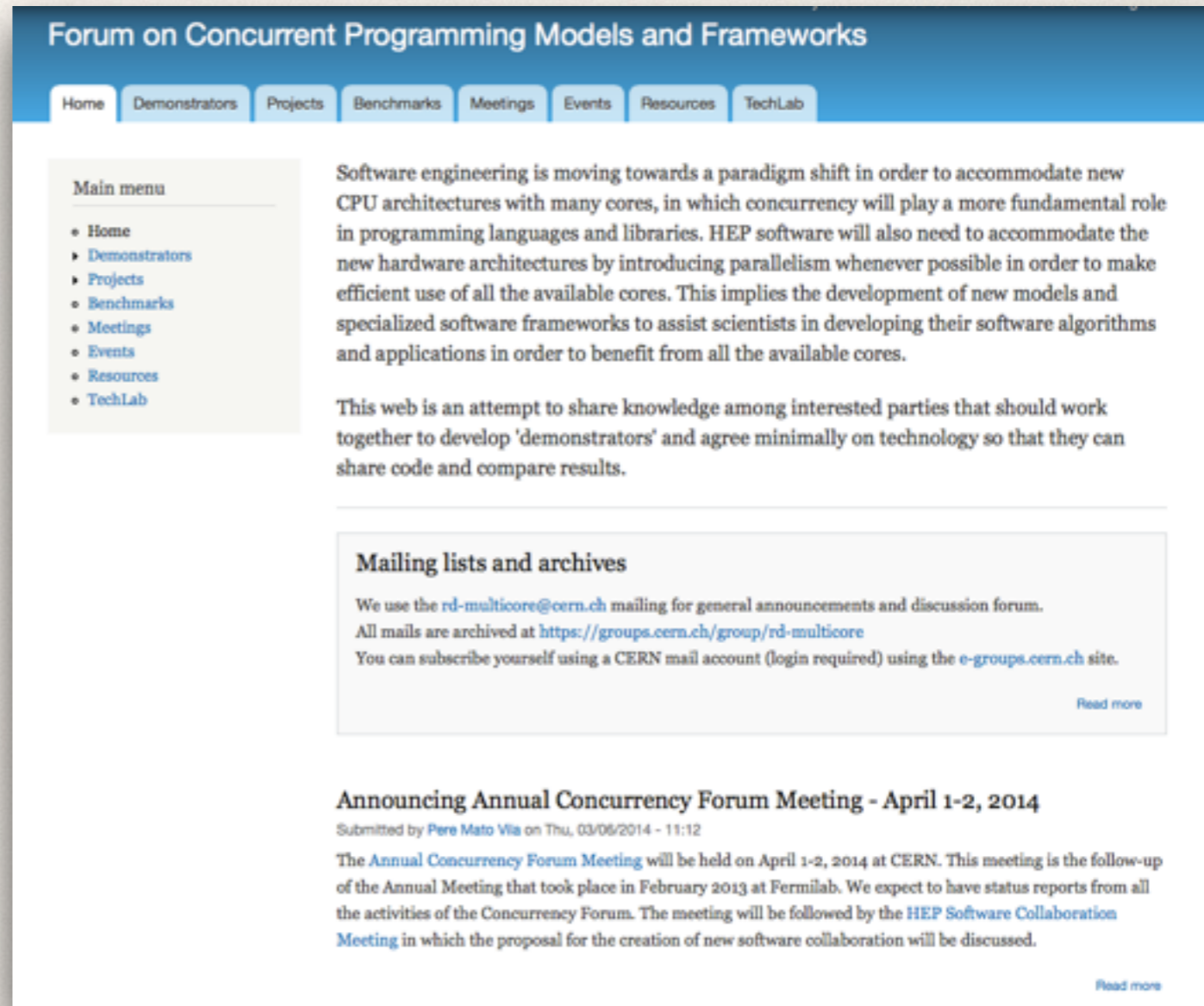CERN, 1-2th April 2014
P. Mato/CERN

Welcome to the Third Annual Concurrency Forum Meeting

The **Concurrency Forum** was outcome of the first "Workshop on Concurrency in the many-Cores Era" held at Fermilab in November 2011 to explore the possibility that interested High Energy Physics (HEP) institutions and projects collaborate on concurrent frameworks and applications R&D
The function of the Forum is to communicate and exchange information and results

Concurrency Forum

- ✤ During the year we have had bi-weekly meetings with reports of the ongoing activities

  - ✤ GPUs

  - ✤ Multi-threading

  - ✤ Vectorization

  - ✤ New architectures

  - ✤ Tools

  - ✤ etc.

- ✤ The annual meeting is an opportunity to take stock and reflect what should be the next steps

https://concurrency.web.cern.ch

Annual Meeting Goals

Discuss progress made with each demonstrator (area of R&D work), drawing **conclusions** for those that have completed and **identifying topics that still need to be investigated**

Get an update from each major project on its **current views on parallelism issues**, such as choice of concurrency model and software technologies
This should be an opportunity for us all to discuss and see if we can converge on a common overall strategy

Possibility of **launching common development projects** with specific deliverables that can be of benefit to the whole community

Sessions Organized by Topic

Today

* 0 - Welcome   *John Harvey*

* 1 - Multi-threaded Frameworks   *Jim Kowalkowski*

* 2 - Libraries and Toolkits for a Parallel world   *Benedikt Hegner*

Tomorrow

* 3 - Co-processors, Accelerators and Vectorization   *John Apostolakis*
                                                                       Philippe Canal

* 4 - Technology Watch and Evaluations   *Andrzej Nowak*

* 5 - Wrap-up   *Pere Mato*

We should try to have short presentations and reserve at least 5 minutes at the end of each one for discussion

Logistics

* All sessions and coffee breaks will be held at "IT Amphitheater" (Building 31/3-004)

* Lunches can be taken at Restaurant 2 (just across the road) or Restaurant 1 (10 minutes walk)

* If you need any assistance feel free to send me or Ulla Tihinen (ulla.tihinen@cern.ch) an e-mail