

Programming and tUning Massively Parallel Systems Summer School



PUMPS Summer School

Barcelona Supercomputing Center
Universitat Politècnica de Catalunya

Barcelona, July 5-9, 2010

<http://bcw.ac.upc.edu>

Important Dates:

- Applications due: May 20
- Notification of acceptance: June 1
- Summer school: July 5-9, 2010

Distinguished Lecturers and textbook authors:



Wen-Mei W. Hwu
University of Illinois



David B. Kirk
NVIDIA

Barcelona Computing Week Co-Directors:

Mateo Valero (BSC/UPC) and Wen-mei Hwu

Location:

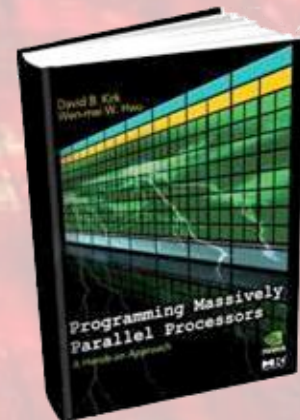
- Campus Nord, UPC, Barcelona, Spain

Organized by:

- Barcelona Supercomputing Center
- University of Illinois
- Universitat Politècnica de Catalunya
- HiPEAC Network of Excellence

The summer school will provide students with knowledge and hands-on experience in developing applications software for many-core processors, such as general purpose graphics processing units (GPUs).

- **Three parallel tracks:** specially designed for beginner, advanced, and teacher profiles
- **Programming Languages:** CUDA, OpenCL, OpenMP, StarSs
- **Hands-on labs:** Afternoon labs with teaching assistants for each audience/level
- **Numerical methods:** FFT, Graph, Tiling, Grid, Montecarlo, FDTD, Sparse matrices..
- **Case Studies:** Molecular Dynamics, MRI, RTM Stencil, Dense Linear Systems...
- **Showcase** of new products by NVIDIA and clustered systems builders



More information:

<http://bcw.ac.upc.edu>

