



MULTICORE WORLD 2013

Workshop

“An introduction to Parallel Programming with OpenMP”

Tim Mattson, PhD. Principle Engineer and Parallel Computing Evangelist, Intel Corporation. USA

Monday 18 February 2013, 12:30 pm - 5:00 pm

Goal: You will leave with real practical experience in parallel programming.

- This workshop is for programmers who want to **actually write parallel code**.
- Workshop will start at an introductory level and it is designed to help people get started with parallel computing (hence the use of OpenMP).

Outline

- Introduction to parallel programming
- An introduction to OpenMP
- Creating threads
- Basic synchronization
- Parallel loops (introduction to worksharing)
- The rest of worksharing and synchronization
- Data environment
- OpenMP tasks
- The OpenMP memory model
- A survey of parallel programming models

Hands on workshop: Bring your **own laptop** with an OpenMP compiler (anything from Apple with X-code or any Linux-laptop with a modern GNU compiler, Windows laptops with Microsoft Visual Studio, or any laptop/OS with an Intel Compiler. Windows plus cigwin and a modern GNU compiler works as well. Note that we will not have time to help you install your programming environment, so please do this on your own in advance.)

Fee:	Workshop	Multicore World 2013 + workshop (*)
Before January 31st	\$400 + GST	\$1,000 + GST (Workshop only \$250)
From February 1st	\$550 + GST	\$1,300 + GST (Workshop only \$350)

Corporate discounts available. **Limited places**

Registration: <http://multicoreworld.com/registration.html>

(*) Multicore World 2013 + workshop includes

- Workshop **Monday 18** (12:30 - 5:00 pm) **AND**
- Full access to conference **Tuesday 19 and Wednesday 20** (8:30 am - 5:00 pm) **AND**
- Conference Dinner, **Tuesday 19 February** (6:30 pm - 10:00 pm) **AND**
- Conference Closure event **Wednesday 20 February** (5:30 pm - 7:30 pm)

Further information

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