NCSI Introduction

National Computational Science Institute

Who are we,
and why are we here?

Tom Murphy

Director of Contra Costa College
High Performance Computing Center

NCSI Introduction
U Oklahoma, July 29 - Aug 4 2012

Schedule at a Glance

amazingly helpful and accurate

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
7:30 AM	Eat*	Eat*	Eat*	Eat*	Eat*	Eat*
8:30 AM	Work	Work	Work	Work	Work	Work
10:00 AM	Eat*	Eat*	Eat*	Eat*	Eat*	Eat*
10:30 AM	Work	Work	Work	Work	Work	Work
12:00 PM	Eat*	Eat*	Shop	Eat*	Eat*	Home
1:30 PM	Work	Work	Shop	Work	Work	
3:00 PM	Eat*	Eat*	Shop	Eat*	Eat*	
3:30 PM	Work	Work	Shop	Work	Work	
5:00 PM	Eat*	Eat*	Shop	Eat*	Eat*	*=optional
7:00 PM	Work	Work	Shop	Work	Work	
9:00 PM	Sleep*	Sleep*	Sleep*	Sleep*	Sleep*	

NCSI Introduction
U Oklahoma, July 29 - Aug 4 2012

2

What Makes Us Unique?

compared to all the other unique programs

- Year-round program
  - Summer workshops
    - Computational Biology
    - Computational Chemistry
    - Computational Engineering
    - Introduction to Computational Thinking
    - Computational Thinking in K-12 Classroom
    - Parallel and Distributed
- EAPF (Educational Alliance for a Parallel Future)
  - LittleFe
  - BCCD

Who We Are

- Unique mix of supporting projects and efforts
  - Shodor and the National Computational Science Institute
    - CSERD
  - Krell Institute
  - XSEDE (the association formaly known as TeraGrid)
  - Edu-grid
  - EAPF (Educational Alliance for a Parallel Future)
- Instructors come from institutions across the United States
  - Assistant --> instructor model

NCSI Introduction
U Oklahoma, July 29 - Aug 4 2012

4

Goals and Outcomes For Us

- Integrate HPC technologies into the curriculum that we teach.

- Build a community of Educators

- Be a "support system" for educators in search of relevant, effective teaching materials

- Reduce the "barrier to first use" often experienced with new HPC technologies.

Goals and Outcomes For You

- Adept
    - This is a hands on workshop
- Adapt
    - You will be presenting on Saturday
- Adopt
    - Academic exercise, unless you make it an academic exercise

- Addicted
    - We before you are past attendees

Evaluation

- Program
  - Program evaluation component measures progress toward integrating curriculum into the classroom.
  - This is where **you** come in
- Workshop evaluation is done daily.
  - We **need** you to fill out
    - the pre-workshop
    - the daily feedback
    - the post-workshop surveys.