



# LEHIGH UNIVERSITY 2012 High Performance Computing Symposium

## Thursday, 22 March 2012

0830–0900	Registration	Linderman Library 200
	<b>Seminar:</b> John Urbanic, Pittsburgh Supercomputing Center	
	<i>OpenMP and OpenACC: How to Program Many Cores</i>	
0900–1000		<i>Intro. to HPC, or “Why Must We Use Many Cores?”</i>
1000–1045		<i>OpenMP: Using the Cores in Your CPU</i>
1045–1100		Break
1100–1200		<i>OpenACC: Using the Cores in your GPU</i>
1200–1330	Lunch	University Center 303
1330–1530		Linderman Library 200
	Stephen Anthony (HPC Support Specialist) and Michael Chupa (HPC Team Lead)	
	<i>HPC at Lehigh and Beyond</i>	

## Friday, 23 March 2012

0830–0850	Registration	Linderman Library 200
0850–0900	Welcoming Remarks	Bruce Taggart, Vice Provost, Library and Technology Services, Lehigh University

### Session 1: Linderman Library 200. Brian Chen, Computer Science and Engineering, chair.

0900–1010	<b>Keynote:</b> Manish Parashar, Rutgers, The State University of New Jersey
	<i>Moving From Data to Insights—Addressing Data Challenges in Simulation-based Science</i>
1010–1045	Lei Xie, Hunter College, City University of New York
	<i>Bringing the Power of High Performance Computing to Systems Pharmacology</i>
1045–1105	Break

### Session 2: Linderman Library 200. Michael Spear, Computer Science and Engineering, chair.

1105–1140	John Cavazos, University of Delaware
	<i>Auto-tuning a High-Level Language Targeted to GPU Codes</i>
1140–1215	Boyce Griffith, New York University
	<i>Cardiac Fluid-structure and Electro-mechanical Interaction</i>

### 1215–1330 Lunch, Lucy’s Cafe, Linderman Library lower level

### Session 3: Linderman Library 200. Edmund Webb III, Mechanical Engineering and Mechanics, chair.

1330–1435	<b>Keynote:</b> Steve Plimpton, Sandia National Laboratories
	<i>High-Performance Computing for Atomistic Materials Modeling</i>
1435–1510	Skylar Tibbits, Massachusetts Institute of Technology
	<i>Computational Construction</i>
1510–1530	Break

### Session 4: Linderman Library 200. Brian Chen, Computer Science and Engineering, chair.

1530–1605	Michela Taufer, University of Delaware
	<i>GPU-enabled Macromolecular Simulation: Challenges and Opportunities</i>
1605–1640	John Wofford, Columbia University
	<i>HPC Growing Pains: IT Lessons Learned from the Biomedical Data Deluge</i>

# HPC Symposium Attendees:

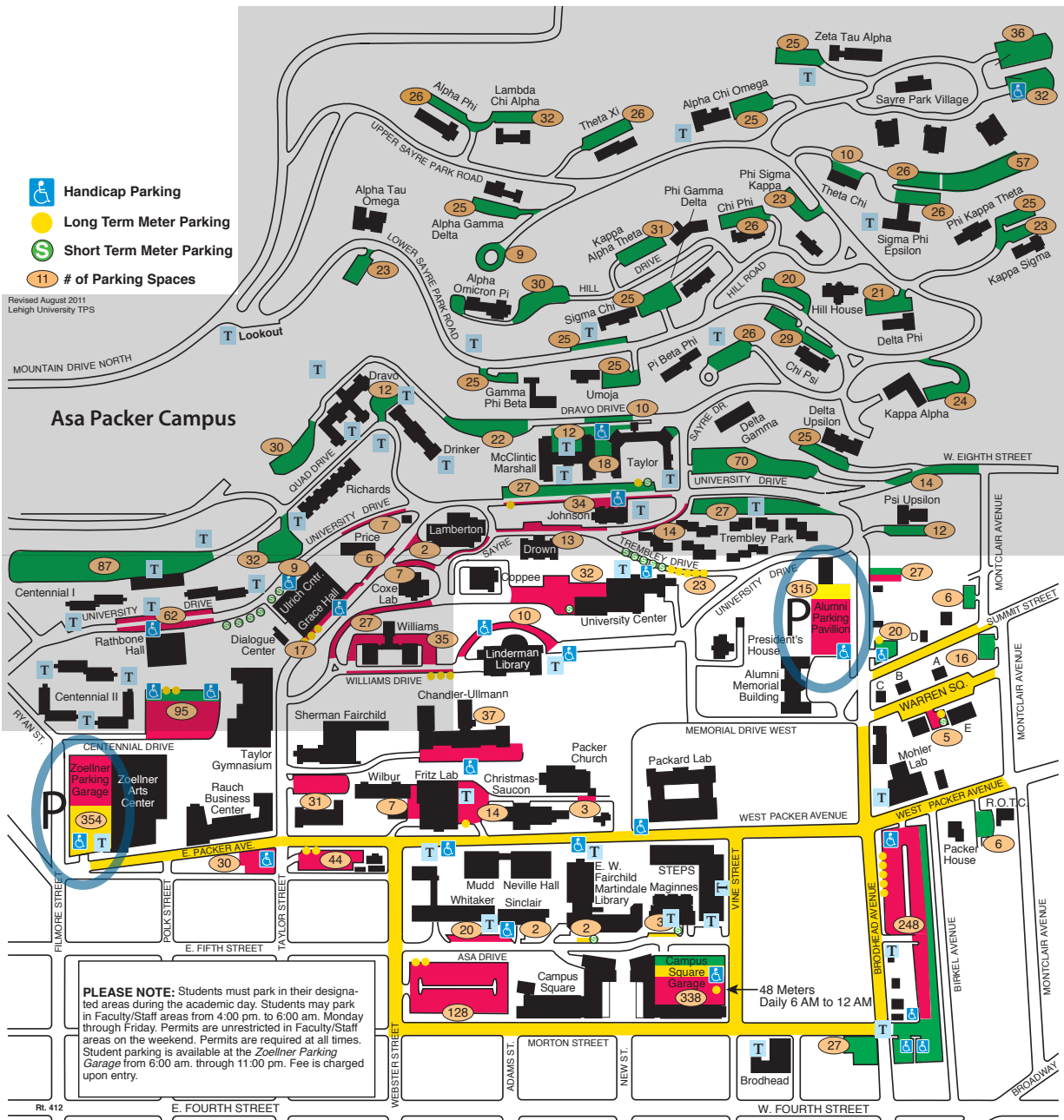
# LEHIGH

Transportation & Parking Services

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We recommend parking at the Zoellner Parking Garage; there is a \$2 daily parking charge. There are also long-term meters available in the Alumni Parking Pavilion and along Packer Avenue.

- GREEN** Student Parking Permit Required
- YELLOW** Visitor /Public Parking Meter Payment or Entry Fee Required
- RED** Faculty/Staff Parking Permit Required  
No Student Parking 6am to 4pm



Revised August 2011  
Lehigh University TPS