

## UO Physics & Human Physiology SAIL Camp

July 30 – August 3, 2012. 10AM - 3PM Mon-Fr

Room 240 Willamette Hall and other locations

Profs. Raghuveer Parthasarathy and Andy Karduna

Physics Department office phone: (541) 346-4751

### SCHEDULE

#### MONDAY July 30:

10:00 – 10:20 am	<b>Introduction, welcome (both Physics and Human Physiology).</b> <i>Profs. Raghu Parthasarathy and Andy Karduna. 240 Willamette Hall.</i>
10:20 – 11:45 am	<b>Self-assembly: Oil drops, soap bubbles, and cells</b> – what do they have in common? <i>Raghu Parthasarathy w/ lab.</i>
11:50 – 12:50 pm	<b>Lunch</b> (provided) – <i>Andy and Raghu</i>
1:00 – 2:15 pm	<b>Math diagnostic placement test.</b> <i>240A McKenzie Hall</i>
2:25 – 3:00 pm	<b>Microscopic materials (Hands-on activities exploring materials with microscopy – seeing and manipulating small things)</b> <i>People: Raghu Parthasarathy, w/ lab. In Willamette 240 and 373</i>

#### TUESDAY July 31:

10:00 – 10:50 am	<b>Anatomy Labs / Cadavers</b> <i>In 63-B Klamath, near the Science Library; meet in Willamette 240 first</i>
11:00 – 12:00 pm	<b>Human Phys: Gait analysis.</b> <i>Prof. Li-Shan Chou. In B-52 Gerlinger Annex</i> <i>Sail helper will take to lunch</i>
12:00 – 12:50 pm	<b>Lunch</b> (provided). – Raghu Parthasarathy
1:00 – 2:15 pm	<b>Solar power.</b> <i>Prof. Eric Corwin &amp; lab. Eric's students will take the students to the Rec Center.</i>
2:20 – 3:00 pm	<b>Physiology Demonstration.</b> <i>Andy Karduna – Willamette 240. (Was undergrad physiology lab.)</i>

#### WEDNESDAY August 1:

10:00 – 11:20 pm	<b>Student research at UO.</b> In which SAIL students explore research going on at UO with various graduate students, and deliver short presentations. <i>Willamette 240.</i>
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	<i>Raghu Parthasarathy</i>
11:30 – 11:45 am	<b>TBD</b> ( <i>Either course catalogs + finding “interesting” courses. Or getting input on potential SAIL camps of future interest.</i> ) <i>Raghu Parthasarathy</i>
11:45 – 12:15 pm	<b>Physics and Climbing (I):</b> The Physics of Rock Climbing... presentation. – GTFs <i>Mike Taormina, Matt Jemielita, Ryan Baker (Willamette 240)</i>
12:15 – 1:10 pm	<b>Lunch</b> (provided) – Andy Karduna. Return to Willamette 240 for the “presentation” part of the Physics of Climbing session
1:15 – 2:30 pm	<b>Physics and Climbing (II): Climbing the Rock Wall at the UO Gym</b> – GTFs <i>Mike Taormina, Matt Jemielita, Ryan Baker (UO Rec. Center)</i>
2:30 – 3:00 pm	<b>Physiology and Climbing: Muscle Activity</b> – <i>Prof. Andy Karduna, UO Rec Center</i>

#### THURSDAY AUGUST 2:

10:00 – 10:15 am	Pictures – <i>meet in Wil. 240</i>
10:15 – 11:00 am	<i>Raghu will take students to financial aid</i> <b>Admissions and Financial Aid for College</b> – UO Office of Student Financial Aid & Scholarships. <i>EMU Alsea &amp; Coquille rooms</i>
11:00 – 12:00 pm	<b>Cardiovascular Physiology.</b> <i>Prof. Chris Minson. Esslinger</i>
12:00 – 1:00 pm	<b>Lunch</b> (provided) – box lunches outside, EMU amphitheater. <i>Andy Karduna will take to CMER.</i>
1:00 – 1:50 pm	<b>Neuromuscular function.</b> <i>Prof. Anita Christie. CMER (off campus)</i>
2:00 – 3:00pm	<b>Pregnancy and physiology.</b> <i>Prof. Jeff Gilbert. CMER (off campus)</i>

#### FRIDAY AUGUST 3:

10:00 – 11:20 pm	<b>Electron microscopy.</b> <i>Prof. Ben McMorran. Meet in Wil. 240.</i>
11.30 – 12:20 pm	<b>Fractals, physics, art, and physiology.</b> <i>Prof. Richard Taylor.</i>
12:30 – 1:30 pm	<b>Lunch</b> (provided). <i>Pizza, Carson Volleyball Courts. Also: Evaluations, T-shirts</i>
1:30 – 2:00 pm	<b>Discuss Math Exam.</b> <i>Lara Fernandez. Willamette 240.</i>
2:00 – 3:00 pm	[2pm – “goodbye”] – Will. 240  <b>Demo show: Energy and waves.</b> Some dramatic demonstrations, especially related to waves and sound. <i>Stan Micklavzina, Ben Wright. In Willamette 110.</i>