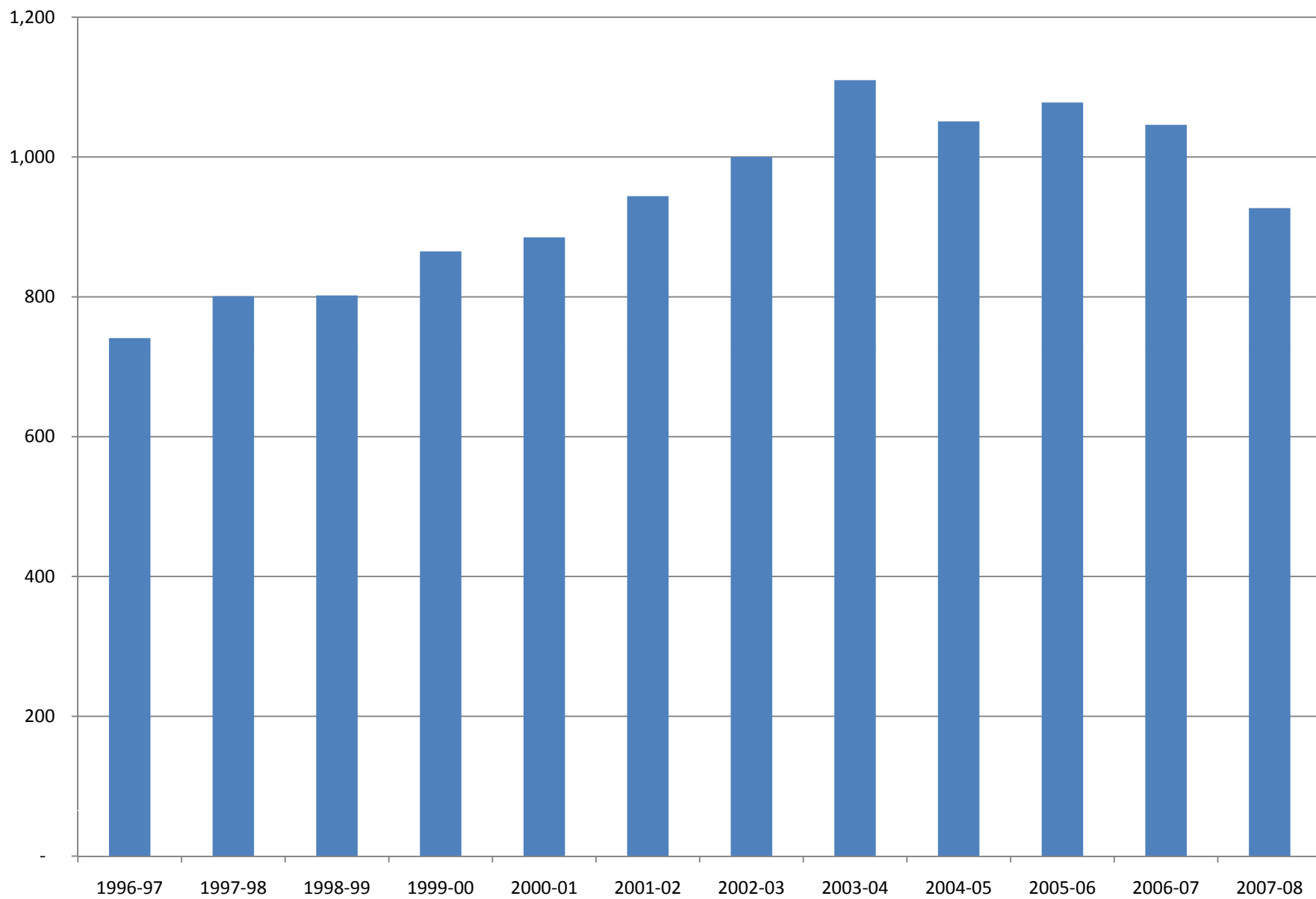


OPAS – Oregon Pre-engineering & Applied Science Initiative

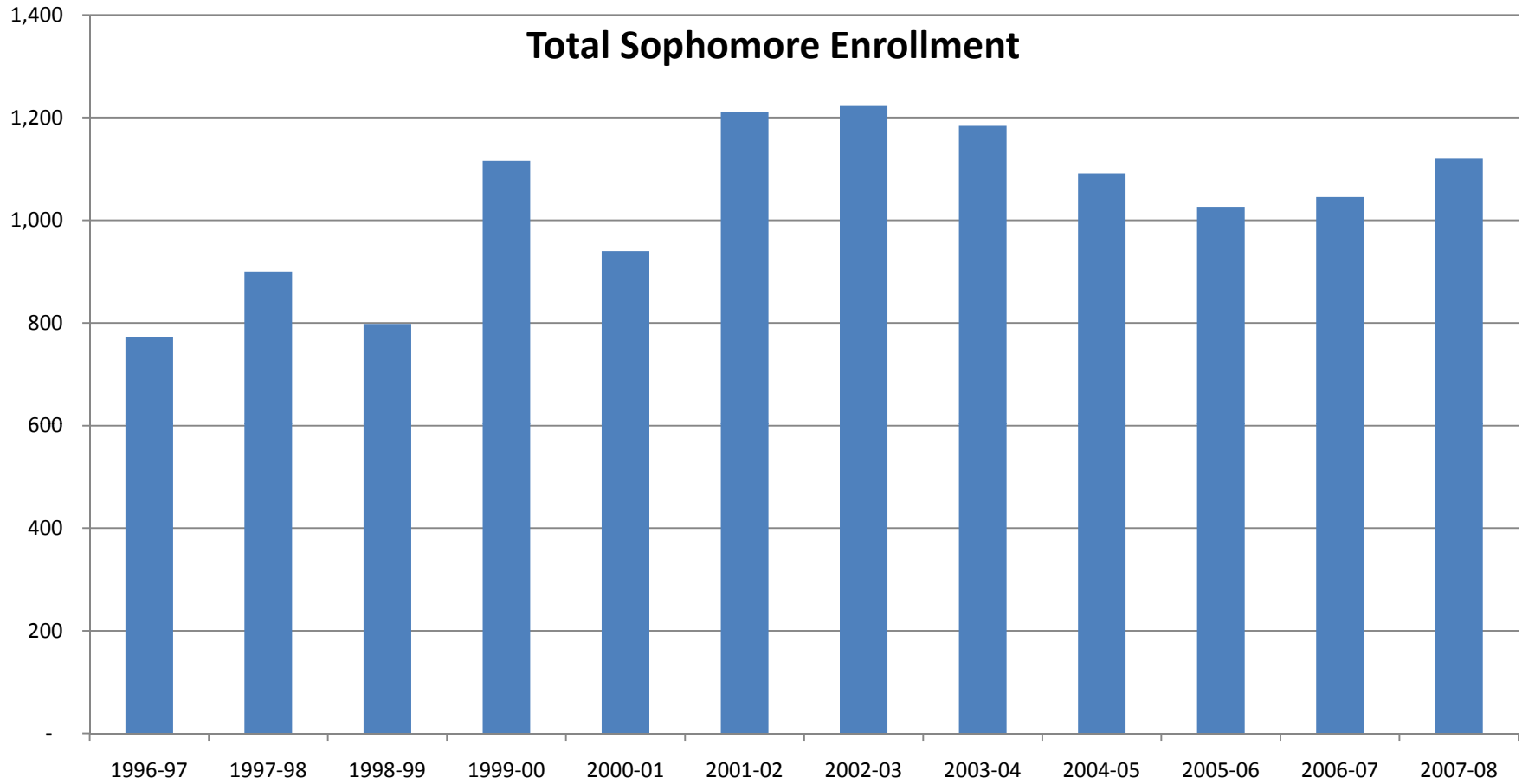
Bruce Schafer

April 17, 2009

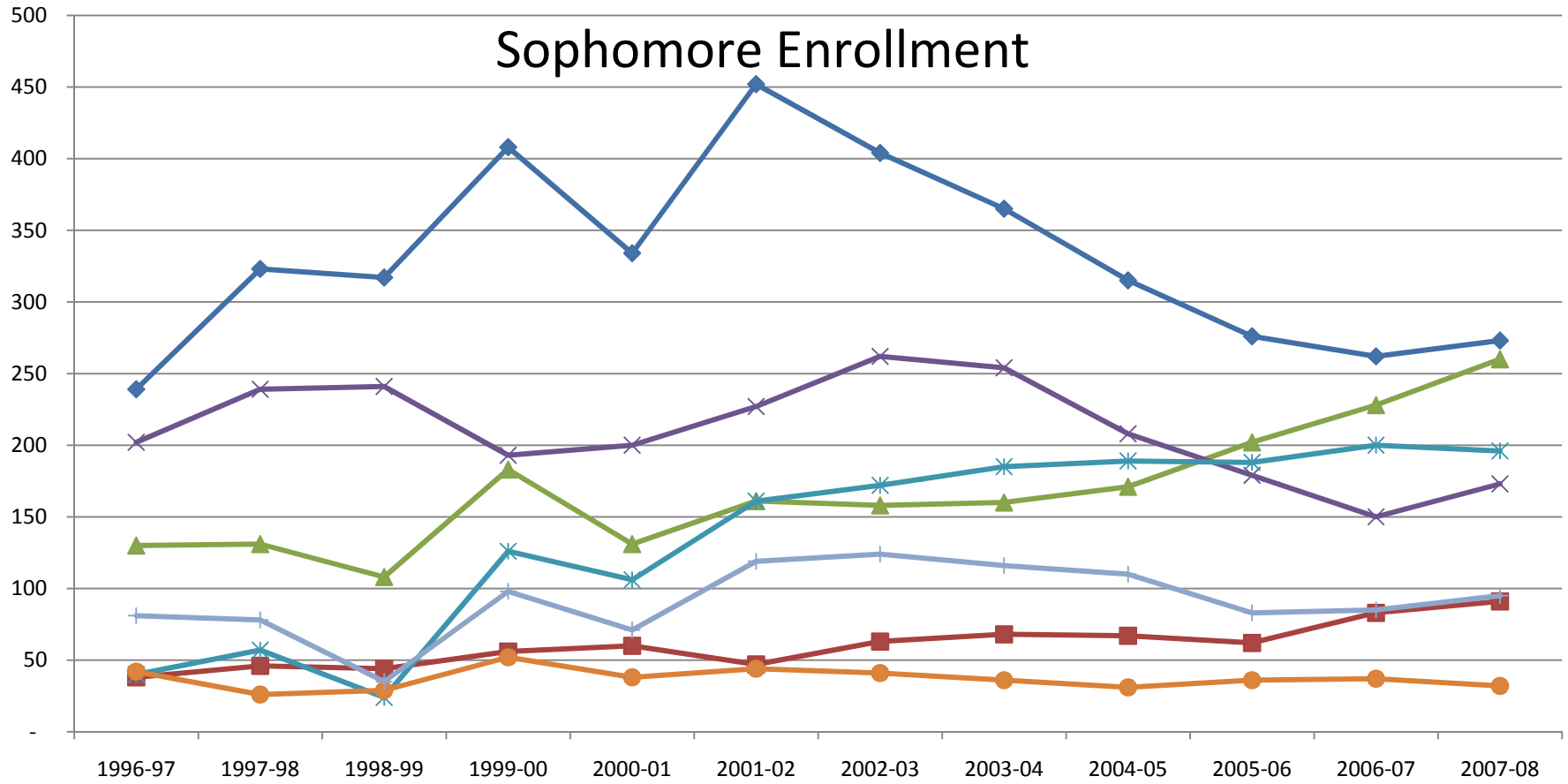
Bachelor's Degrees



Total Sophomore Enrollment




Sophomore Enrollment



- ◆ Computer & Information Science
- Biomedical, Chemical and Environmental Engineering
- ▲ Civil & Construction Engineering
- × Electrical & Computer Engineering and Engineering Physics & Science
- * Mechanical Engineering
- Industrial & Manufacturing Engineering
- + Other Engineering

Oregon Opportunity: Increase Pre-college Exposure to Engineering

		Teachers		
Strategy		9-12	4-8	
In Class Programs	 <p><u>National exemplar program</u> for high school and middle school engineering (OIT has provided Oregon leadership)</p>	X	X	X
	<p>CSTA/TechStart</p> <p>SuperQuest</p> <p><u>Oregon collaboration</u> between Computer Science Teachers Assoc. and the Software Association of Oregon</p>	X	X	X
	<p><u>Expand proven programs</u> addressing minority/under-represented Through collaborative team projects: ORTOP, SMILE (OSU), MESA (PSU), 4-H Tech Wizards, and similar high potential new programs</p> <p><u>Seed “engineering athletics”</u> programs at schools to increase Engineering team competition opportunities and scholarships</p> <p><u>Summer internships</u> for teachers and high potential students</p>	X	X	X
Marketing	<p><u>State-wide communications/marketing</u> of STEM education options and career paths to students, parents, teachers and counselors</p>	X	X	X

Impact of campus-wide reductions

(being made independent of any ETIC reductions)

- Impact of possible 20% reduction
 - One less staff member to support ETIC and OPAS and committees
- Additional impact if reduction is 30%
 - Possible elimination of OPAS funding

Impact of 20% reduction to ETIC Budget

- 20% Reduction in staff support of ETIC and OPAS Committees
 - ETIC Computer Science Task Force
 - ETIC Student Marketing Committee
 - ETIC Coalition
 - OPAS
 - Steering Committee
 - Motivate
 - Prepare
 - Succeed
 - Proposal review
 - Grant oversight
- Additional 20% Reduction in funds to implement strategy
 - Plan a year ago was \$4.56M
 - Reduced to \$1.31M in base plus \$0.25M in POP = \$1.56M
 - 80% of base = \$1.05M
 - So we do 23% of plan instead of 34% of plan

Impact of 30% reduction to ETIC Budget

- 30% Reduction in staff support of ETIC and OPAS Committees
 - ETIC Computer Science Task Force
 - ETIC Student Marketing Committee
 - ETIC Coalition
 - OPAS
 - Steering Committee
 - Motivate
 - Prepare
 - Succeed
 - Proposal review
 - Grant oversight
- Additional 30% Reduction in funds to implement strategy
 - Plan a year ago was \$4.56M
 - Reduced to \$1.31M in base plus \$0.25M in POP = \$1.56M
 - 70% of base = \$0.92M
 - So we do 20% of plan instead of 34% of plan

Summary of Impacts

	-20%	-30%
Reduction in tenured and tenure-track faculty (FTEs)	0	0
Reduction in staff & non-tenure track faculty (FTEs)	0.15	0.23
Reduction in hiring of new faculty & staff (FTEs)	0	0
Reduction in graduates (all levels) in year ending June 2013	??	??
Reduction in externally funded research in year ending 2011	None	None
Reduction in forecasted private support from July 2009 to June 2011	??	??