



***BEST PRACTICES IN
UNDERGRADUATE
STUDENT RECRUITMENT***

**Aris Christou
Chair**

**Materials Science and Engineering Department
University of Maryland
College Park, MD 20742**



Best Practices in Undergraduate Recruitment

Outline

1. Money, Scholarships
2. Interdisciplinary ties to exciting programs on Campus
3. Honors Programs in Engineering
4. Image of Exciting Research Programs which involves Undergraduates



Sources of Undergraduates in Materials Science

1. Undecided incoming first year students (450 average, 50% of incoming class)
2. High School Seniors – Outreach by Materials Faculty to High Schools. Outreach to gifted and talented students.
3. Two-Year Community College Students.
4. Transfers from other four year colleges.



Five Year Enrollment Figures

AY	96-97	15 students
	97-98	16 students
	98-99 ^(†)	32 students
	99-00 ^(*)	44 students
	00-01	55-60 students
	(01-02)	(75)
	(03-04)	(90-100)

(†) First year of state approved B.S. degree program.

(*) ABET Accreditation July 00.

Monetary Inducements to Major in Materials Science and Engineering



- (1) Ten scholarships at 1K each provided by industry (started in 1997)
- (2) Ten 2K scholarships to augment the 4 year "Dean's Scholarship" (started in 2000)
- (3) Research Paper Competition for First Year Students in "Materials for the 21st Century". (Undeclared Majors)
 - 5 lap tops contributed by IBM
 - Winning papers selected in October and students must declare a major in materials.



Outreach Activities to High School Seniors

1. Open House for Gifted and Talented Students and Parents (Fall)
 - Information Fair on Courses and Research
 - Demonstrations
 - Superconductivity
 - Microscopy of crystals
 - How “things” break
 - Smart Materials
 - Many others
2. Visit Maryland Days – “A Visit to the Future World of Materials”
 - General Information
 - Observation of one classroom lecture
 - Visit to labs and demonstrations
 - Lunch
3. Invitation to Fall and Spring Picnics