2006 Barrett Prize
Emily M. Levesque SB ’06

Thesis advisor: Adam Burgasser
The award, established by students, friends, relatives and colleagues of the late Professor Alan Barrett, honors his outstanding influence in the education of physicists and his fundamental contributions to the science and technology of astrophysics. A $1,000 prize is awarded annually to a senior undergraduate or graduate in astrophysics.

2006 Malcolm Cotton Brown Award
Huanqian Loh SB ’06

Thesis advisor: Vladan Vuletic
Awarded to a senior of high academic standing in physics who plans to pursue graduate study in experimental physics. Given in memory of Lt. Malcolm Cotton Brown, Royal Air Force, who was killed in service on July 23, 1918. The fund currently provides a prize of $1,000.
2006 Burchard Scholars

**Kimberly K. Boddy** SB ’07 Physics

**Itamar Kimchi** SB ’08 Physics and Mathematics

**Lyel L. Resner** SB ’07 Physics and Political Science

The Burchard Scholars Program brings together distinguished members of the faculty and promising sophomores and juniors who have demonstrated excellence in some aspect of the humanities, arts, and social sciences, as well as in science and engineering. The Burchard Program format is a series of dinner-seminars held during the academic year to discuss topics of current research introduced by MIT faculty members. The Program is sponsored by the Dean’s Office, School of Humanities, Arts, and Social Sciences.

**2006 Philip Morse Memorial Award**

**Philip J. Richerme** SB ’06

Thesis Advisor: Isaac Chuang

Awarded to a senior of high academic standing in physics who plans to pursue graduate study in physics. Given in memory of Philip Morse, MIT Professor of Physics, one of the renowned physicists of the 20th century, whose contributions spanned from basic physics to engineering. The fund currently provides a prize of $1,000.
2006 Joel Matthew Orloff Awards

Scholarship
Patrick S. Varilly SB ’06
Thesis advisor: John Negele

Research
Emily M. Levesque SB ’06
Thesis advisor: Adam Burgasser

Service
Anat Burger SB ’06
Thesis advisor: Marc A. Kastner

Alejandro Rodriguez SB ’06
Thesis advisor: John D. Joannopoulos; Academic advisor: Scott Hughes

The Joel Matthew Orloff Awards were established by Dr. and Mrs. Daniel Orloff in memory of their son Joel, a physics major, who died in an automobile accident shortly after graduation from MIT in 1978. One thousand dollars is awarded to each of several physics majors in the following three categories:

Scholarship—given to the student with either the highest GPA in physics courses or, if a tie, the highest overall GPA.
Research—given to the student with the most outstanding senior thesis.
Service—given to the student with the most outstanding service to the Department, Institute, or community.

2006 Sigma Pi Sigma Inductees

Waseem Bakr
James Blumling
Laurie Burns
Emily Chan
Grant Elliott
Igor Ginzburg
Peter Jaglom
Jonathan Karr
Huanqian Loh
Adam Miller

2006 Phi Beta Kappa Inductees

Waseem Bakr
Arnab Bhattacharyya
Laurie Burns
Grant Elliott
Igor Ginzburg
Peter Jaglom
Jonathan Karr
Huanqian Loh
Adam Miller

Jason Pelc
Masood Qazi
Fethi Ramazanoglu
Philip Richerme
Patrick Varilly

Vivek Venkatachalam
Dennis Wei


2006 Phi Beta Kappa Inductees

Waseem Bakr
Arnab Bhattacharyya
Laurie Burns
Grant Elliott
Igor Ginzburg
Peter Jaglom
Jonathan Karr
Huanqian Loh
Adam Miller

Jason Pelc
Masood Qazi
Fethi Ramazanoglu
Philip Richerme
Patrick Varilly

Vivek Venkatachalam
Dennis Wei
Other Undergraduate Awards & Honors

Adam A. Miller (SB ’06, physics & theatre) and Vivek Venkatachalam (SB ’06, physics & electrical engineering) were named two of three MIT recipients of the 2006 Gates Cambridge Scholarships. Forty scholarships were awarded to U. S. students from an applicant pool of 552. Both Adam and Vivek will pursue postgraduate study at Cambridge University in the fall of 2006: Adam in the Ph.D. program at the Institute of Astronomy; Vivek in the Quantum Matter Group at the Cavendish Laboratory.

Adam A. Miller (SB ’06, physics & theatre) also received MIT’s Louis Sudler Prize in the Arts. The prize is presented annually to a graduating senior who has demonstrated excellence or the highest standards of proficiency in music, theater, painting, sculpture, design, architecture or film.

Alejandro Rodriguez (SB ’06) was named a U. S. Department of Energy Computational Fellow; received a Stanford Presidential Fellowship; and was awarded a Cornell Presidential Fellowship.

John Thomas (SB ’07) received the National Italian American Foundation’s Eleanor and Anthony DeFrancis Scholarship.

The following 2005 graduate award recipients for the 2004–05 academic year were announced in September 2005, after the press deadline for last year’s physics@mit. The 2006 graduate award winners will be posted to the Department’s web site in September 2006.

2005 Martin Deutsch Student Award
For Excellence in Experimental Physics

Juan M. Pedraza Biophysics
Thesis advisor: Alexandar van Oudenaarden

Yong-II Shin Atomic Physics
Thesis advisor: Wolfgang Ketterle
Awarded to a graduate student in the mid-course of research for study in any area of physics, with preference given to experimental physics. The award was created in honor of Prof. Martin Deutsch’s outstanding contributions to Nuclear Physics as an educator and researcher and currently carries a prize of $1,000.
2005 Andrew M. Lockett III Memorial Fund Award

**David Vegh** String Theory
Thesis advisor: Amihay Hanany
Awarded to a graduate student in theoretical physics, with preference given to students from Los Alamos, NM, and New Orleans, LA. The award currently carries a prize of $1,000. The award was established by Mrs. Lucille Lockett Stone in memory of her husband, Dr. Andrew M. Lockett, who received his Ph.D. in physics from MIT in 1954.

2005 Sergio Vazquez Prize

**Antonello Scardicchio** Theoretical Particle Physics
Thesis advisor: Robert Jaffe
Established in memory of Sergio Vazquez, a graduate student in the Center for Theoretical Physics who was killed in an automobile accident on April 1, 1990. A prize of $1,000 is awarded annually, with preference for a graduate student from an underrepresented sector of the population who had to overcome racial, physical or financial barriers.

Other Graduate Honors & Awards

**Eunmi Choi** (Plasma Physics. Thesis advisor: Richard Temkin) received the 2006 IVEC (International Vacuum Electronics Conference) Best Student Paper Award for the paper, “Experimental Study of a High Efficiency 1.5 MW, 110 GHz Gyrotron.”

**Rafif Hamam** (Hard Condensed Matter Theory. Thesis advisor: Marin Soljacic) was awarded the 2005-06 Praecis Presidential Fellowship.

**Roark Marsh** (Plasma Physics) received the Distinguished Performance Award at the International Linear Collider School, Hayama, Japan. The award was given for having successfully completed an eight-day course on linear colliders with outstanding results, as one of the top ten out of 78 students attending the school.

**Evgenya Smirnova** (Plasma Physics. Thesis advisor: Richard Temkin) won the American Physical Society’s award for Outstanding Doctoral Thesis Research in Beam Physics “for the design, fabrication and successful testing of a 17 GHz electron accelerator utilizing a photonic crystal structure.”