

Department of Physics
at a Glance

Teaching

Core Curriculum:

PHYS 101

Prof. Samir Aouadi
Prof. Shane Stadler
Lect. Ruth Ann Levinson

PHYS 103

Prof. Andrei Komakov
Prof. Tom Masden

Introductory classes:

PHYS 203

Prof. Frank Gaitan
Prof. Naushad Ali
Prof. Samir Aouadi
Lect. Ruth Ann Levinson

PHYS 205

Prof. Mesfin Tsige
Prof. Mercedes Calbi
Prof. Vivak Malhotra
Prof. Mark Byrd

SCI 210A

Prof. Aldo Migone

The academic load for large enrollment classes is distributed broadly throughout the faculty in the Department.

In 2006-2007 the class assignments were such that eleven out of the thirteen faculty were in charge of large class lectures.

Degrees

- Undergraduate:

Bachelors of Science in Physics (between 18-25 majors typically)

- Graduate:

Masters of Science in Physics (10-15 students)

**Doctor of Philosophy in Applied Physics* (10-15 students)

***NOTE:** We started admitting students for the first time into this recently approved degree in the Fall of 2005.

Recent Honors Received by Members of the Department

Students:

Two recent recipients of *Barry Goldwater fellowships*, after a nationwide competition:

Ms. Kathleen Lask in 2006

Mr. Jared Burde in 2007

(There were only 11 fellowships awarded statewide in 2006 and 13 in 2007)



Faculty:

- *Prof. Aldo Migone*

Elected as *Fellow of the American Physical Society*

- *Prof. Mesfin Tsigie*

Received one of the *2007 Ralph E. Powe Junior Faculty Enhancement Awards* from the ORAU.

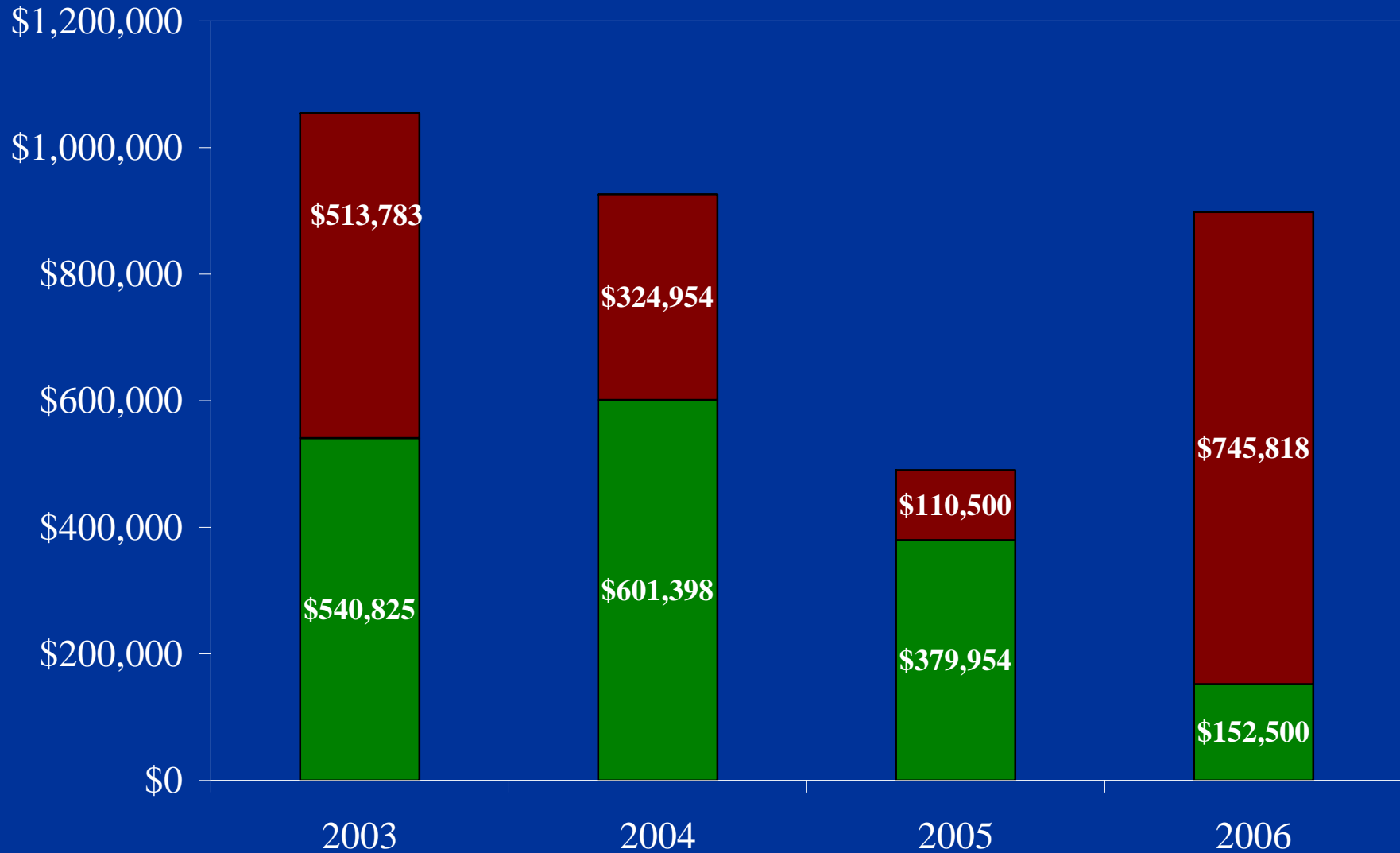
- *Emeritus Prof. F. B. Malik*

Received the *2007 John Wheatley Award* sponsored by Forum on International Physics of the American Physical Society.



External funding

■ Continuing from the previous year ■ New awards



Grants Processed, so far, in 2007

NEW

Samir Aouadi (and Punit Kholi)	NSF	Total \$310,000
Aldo Migone and Mercedes Calbi	NSF	Total \$330,000
Andrei Kolmakov	ACS/PRF	Total \$40,000

CONTINUING

Naushad Ali and Shane Stadler	USDOE	\$153,391 for 2007
Shane Stadler	NSF CAREER	\$91,000 for 2007
Mark Byrd	NSF CAREER	\$ 80,000 for 2007

External Funding Sources (2006-2007)

- *US Department of Energy:*

- Naushad Ali and Shane Stadler
- Vivak Malhotra

- *National Science Foundation:*

- Samir Aouadi (and Punit Kholi)
- Mark Byrd, CAREER Award
- Aldo Migone and Mercedes Calbi
- Shane Stadler, CAREER Award

- **11 out of 13 faculty members in the Department are grant-active**

- **all 3 senior faculty members are funded from federal sources**

- *Illinois Clean Coal Institute*
 - Vivak Malhotra

- *ACS-Petroleum Research Fund*
 - Mercedes Calbi
 - Andrei Kolmakov

- *Research Corporation*
 - Naushad Ali

- *Caterpillar Inc.*
 - Andrei Kolmakov

- *Metaglass Coatings LLC*
 - Samir Aouadi

• **8 out of the 11 grant-active faculty are funded**

• **7 out of the 8 funded have funding from federal sources**

Publications in 2006

<i>Journal</i>	<i>Impact Factor</i>	<i>Publications</i>
<i>Nano Letters</i>	9.85	1
<i>Physics Letters B</i>	5.30	1
<i>Appl. Phys. Lett.</i>	4.13	3
<i>J. of Physical Chemistry B</i>	4.03	1
<i>Langmuir</i>	3.71	1
<i>Physical Review B</i>	3.19	1
<i>Physical Review A</i>	3.00	2
<i>Nanotechnology</i>	2.99	1
<i>Physical Review E</i>	2.42	1
<i>J. Appl. Phys.</i>	2.50	3
<i>J. Phys.: Condens. Matter</i>	2.15	2
<i>Intl. J. of Mass Spectrometry</i>	2.09	1
<i>Nucl. Phys. A</i>	1.95	1
<i>Eur. Phys. Journal A</i>	1.66	1

<i>Surf. Coat. Technol.</i>	1.65	2
<i>Physics Letters A</i>	1.55	1
<i>Eur. Phys. Journal D</i>	1.52	1
<i>Polymer Engineering and Science</i>	1.08	1
<i>J. Applied Polymer Science</i>	1.07	1
<i>IEEE Trans. Mag.</i>	1.01	2
<i>Intl. J. Quant. Info.</i>	N/A	1
<i>Proc. SPIE</i>	N/A	1

- **The average number of publications per faculty in 2006: 2.3**
- **12 out of 13 faculty in the Department are publication-active**