

3-24-2005

## Dr. Talat Rhaman Lecture

Sigma Xi

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**THE CULTURAL AFFAIRS/DISTINGUISHED  
LECTURE SERIES COMMITTEE  
GRANT APPLICATION**

PROVIDE 10 (TEN) COPIES, INCLUDING THE ORIGINAL.  
PLEASE PLACE A COPY OF THIS COVER SHEET ON TOP OF EACH COPY

I. Applicant/Organization: University of Maine Chapter of Sigma Xi

II. a. Responsible Organization Officer: François Amar

b. Title: Vice-President

c. Campus Address (include EMail and Telephone): 253 Aubert Hall, 581-1196, amar@maine.edu

III. Summary of program requiring funding (title; featured artist(s); speaker(s); scheduled date (s):

Sigma Xi Distinguished Scientist Seminar, Fall 2005: Dr. Talat Rahman will give a public lecture entitled "Promises of Nanoscience and Nanotechnology: Fact or Fiction?" The talk will be given either on Thursday, October 13 or Thursday, October 20 in the evening, depending on Dr. Rahman's detailed fall schedule, and will be open to the campus community and the community at large.

**Expand in fuller detail, a supporting statement with detailed, itemized budget. Funding for current application is contingent upon submission of detailed budget and attendance report for any previous years' grants.**

IV. a. Total funding required for program:	\$1600
b. Amount committed by applicant organization:	\$ 200
c. Amount committed by Depts. of Chemistry, Physics, and LASST and VP for Research	\$ 450
d. Amount requested from other funding sources (see detailed budget)	\$ 550
e. Amount requested of Cultural Affairs/DLS Committee:	\$ 400

Signature of responsible organization officer/date:

*François Amar*

SIGNATURE

3/24/2005

DATE

SEND COMPLETED APPLICATION TO:

CULTURAL AFFAIRS COMMITTEE  
C/O PRESIDENT'S OFFICE  
200 ALUMNI HALL, CAMPUS

\$400

**Sigma Xi Distinguished Scientist Seminar, Fall 2005**  
**Submitted by François Amar**  
**For the University of Maine Chapter of Sigma Xi (the Scientific Research Society)**

A vital component mission of the University of Maine Chapter of Sigma Xi is to promote interest in scientific research on campus, and thus we request funding to help support the visit of a distinguished scientist in the Fall of 2005. Dr. Talat Rahman is University Distinguished Professor of Physics at Kansas State University. She earned her Ph.D. in 1977 from the University of Rochester. She is a theoretician specializing in the computer simulation of nanomaterials. She has been named as one of 35 Sigma Xi Distinguished Lecturers for 2005-2006 and her visit will be partly supported by a subsidy from the National Office of Sigma Xi. In addition to her work in computational materials science, Dr. Rahman has been active in recruiting and mentoring women and minorities in science and has won awards for her teaching.

As a scientist whose interests and expertise span many disciplines including physics, computer simulation, materials science, and nanotechnology, Dr. Rahman can speak to a broad audience, and for that reason, the University of Maine chapter of Sigma Xi (the Scientific Research Society) has invited her to give two lectures at the University of Maine next fall (Oct. 13-14 or Oct 20-21). Dr. Rahman will present a seminar to the general public. This seminar will be advertised to the campus community and surrounding institutions including high schools. Sigma Xi members, and UM community on the topic: **Promises of Nanoscience and Nanotechnology: Fact or Fiction?** She will give a second, more research-focused seminar to the scientific community as part of the LASST seminar series (Co-sponsored with the Departments of Physics and Chemistry). Dr. Rahman will also meet with faculty and students of co-sponsoring units to discuss their research interests. Sigma Xi hopes this seminar will promote conversation among the diverse members of the scientific community at UM.

**Budget for Fall 2005 Sigma Xi Distinguished Scientist Seminar**

<b>Expenses</b>		<b>Income</b>	
Honorarium	\$ 300	UM Sigma Xi	\$ 200
Airfare	\$ 550	LASST	\$ 100
Lodging	\$ 200	Dept. of Chemistry	\$ 100
Meals	\$ 150	Dept. of Physics & Astronomy	\$ 100
Public Reception	\$ 200	VP for Research	\$ 150
Publicity	\$ 100	National Sigma Xi Grant (pending)	\$ 400
<u>Room fee</u>	<u>\$ 100</u>	Requested of Provost's office	\$ 150
Total Expenses	\$1600	<u>Requested of CA/DLS</u>	<u>\$ 400</u>
		Total Income	\$ 1600

## A Sigma Xi Distinguished Lecturer, Spring 2006

### Final Report (6/7/2006)

Submitted by François G. Amar

For the University of Maine Chapter of Phi Beta Kappa

The University of Maine Chapter of Sigma Xi hosted Distinguished Lecturer, Professor Talat Rahman of Kansas State University on April 27 and 28, 2006. In connection with Sigma Xi's induction ceremony for new members, held at 7 PM on April 27 in the Arthur St. John Hill Auditorium in the ESRB, Prof. Rahman gave a talk of general interest entitled, "*Promises of Nanoscience and Nanotechnology, Fact or Fiction,*" to an audience of about 50 students, parents, alumni, and faculty and staff.

The next day (see schedule next page) Prof. Rahman met with 4 faculty members in Chemistry and Physics and had a lecture/discussion over lunch with members of the Center for Science and Mathematics Education Research (and others) on the topic: "*Should we tell our daughters to become scientists?*" This presentation was attended by about 15 people. Her final presentation of the visit was a research talk given at 3 PM on April 28 entitled "*On factors that control reactivity and selectivity on surfaces and nanostructures.*" This talk was attended by about 50 research students, faculty, and staff from several departments.

A subsidy (\$400) from the National office of Sigma Xi covered \$253.59 of the \$533.69 bill for airfare; the remainder was paid by CA/DLS – see below. The subsidy also covered other travel expenses, totaling \$123.40. Local meal expenses were paid by the Departments of Chemistry and Physics as was food for the post-lecture reception on April 28. A reception for the Sigma Xi induction and talk was provided by the Vice President for Research Office (\$150). Two nights stay at the Black Bear Inn (\$119.90) and a portion of the speaker's airfare (\$280.10) were charged to CA/DLS. Finally, the local section has covered an honorarium of \$200. We were fortunate to come in under our overall budget. Our thanks to CA/DLS for their support.

<b>Expenses</b>		<b>Source</b>
Honorarium	\$ 200	Sigma Xi
Airfare	\$ 533.69	Sigma Xi (\$253.59) & CA/DLS (\$280.10)
Other Travel	\$ 123.40	Sigma Xi
Lodging	\$ 119.90	CA/DLS
Meals	\$ 150	Chemistry and Physics
<u>Public Reception</u>	<u>\$ 150</u>	V.P. of Research
Total Expenses	\$1277	

**Final schedule for Prof. Talat Rahman, April 27-28, 2006**

**Thursday, April 27**

- 3:30 PM Pick up at BIA, F. Amar
- 7:00 PM Sigma Xi Induction and Lecture (Arthur St. John Hill Auditorium, ESRB)  
Promises of Nanoscience and Nanotechnology: Fact or Fiction?

**Friday, April 28**

- 8:00AM Pick up at Black Bear Inn, John Thompson
- 9:00AM Brian Frederick (ESRB)
- 10:00AM Howard Patterson (Aubert)
- 11:00 AM Robert Lad (ESRB)
- 12:00 Lunch/Discussion: "Should we Tell our Daughters to Be Scientists?"  
(Bennett 114)
- 1:30PM Carl Tripp (ESRB)
- 3:00PM Research Talk: On factors that control reactivity and selectivity on  
surfaces and nanostructures (Arthur St. John Hill Auditorium, ESRB)
- 6:00 PM Dinner at F. Amar's house  
Black Bear Inn

**Saturday, April 29**

To BIA for flight home

**SIGMA XI**  
AND THE DEPARTMENTS OF CHEMISTRY,  
PHYSICS & LASST PRESENT



Dr. Talat Rahman  
Distinguished Professor of Physics  
Kansas State University

**OF GENERAL INTEREST AND OPEN TO THE PUBLIC:**

THURSDAY, APRIL 27, 2006 AT 7:00 PM

**PROMISES OF NANOSCIENCE AND  
NANOTECHNOLOGY: FACT OR FICTION?**

COMBINED WITH THE INDUCTION CEREMONY FOR  
NEW SIGMA XI MEMBERS

ARTHUR ST. JOHN HILL AUDITORIUM  
ENGINEERING AND SCIENCE RESEARCH BUILDING

**MORE SPECIALIZED AND OPEN TO THE PUBLIC:**

FRIDAY, APRIL 28, 2006 AT 3:00 PM

**ON FACTORS THAT CONTROL  
REACTIVITY AND SELECTIVITY ON  
SURFACES AND NANOSTRUCTURES**

ARTHUR ST. JOHN HILL AUDITORIUM  
ENGINEERING AND SCIENCE RESEARCH BUILDING

Support of the Vice-President for Research and the  
Cultural Affairs/Distinguished Lecture Series is gratefully acknowledged.