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Cultural Affairs Distinguished Lecture Series

Cultural Affairs Committee

10-2011

ChemFest 2011

Department of Chemistry

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CULTURAL AFFAIRS/DISTINGUISHED LECTURE SERIES

GRANT APPLICATION

I. Applicant/Organization: Department of Chemistry

II. a. Responsible Organization Officer: François G. Amar, Chair

b. Title: ChemFest, 2011

c. Campus Address (include Email and Telephone): amar@maine.edu, 581-1168

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

ChemFest, 2011 is our local participation in National Chemistry Week intended to celebrate the contributions of the sciences, and, in particular, chemistry, to modern life and society. ChemFest will take place in Aubert Hall in the late afternoon and evening of Wednesday, October 12, 2011.

The program consists of an open house for members of the campus community and beyond, including area school teachers and their students. We anticipate well over one hundred attendees. Undergraduate student members of the American Chemical Society UM Student Affiliates will present interactive demonstrations of chemistry at a level understandable to a lay audience.

Highlighting the evening will be a talk on the history of alchemy and chemistry through pictures and stories by Prof. Arthur Greenberg from UNH. Dr. Greenberg is the author of several books including, *From Alchemy to Chemistry in Picture and Story* (Wiley, 2007). The program is co-sponsored by UM's Dept of Chemistry, the ACS Student Affiliates, and the Maine Section of the American Chemical Society. Of a total budget of \$1600, we request \$300 from CA/DLS for an honorarium for our distinguished guest speaker who has also agreed to give a more technical seminar on his research on Thursday, October 13 at 11 AM. This talk is also open to the public.

IV. Budget Proposal Form must be attached.

See attached.

Funding for current application is contingent upon submission of reports for any previous grant awards, including final budget and attendance figures.

SEND COMPLETED APPLICATION VIA EMAIL TO: wcarr@maine.edu

For questions regarding the Cultural Affairs/Distinguished Lecture Series, please contact Wanda Madden-Carr at 581-1516

Cultural Affairs/Distinguished Lecture Series Fund Budget Proposal Form

Applicant/Organization: Department of Chemistry
 Responsible Officer: François G. Amar, Chair
 Event Title: ChemFest, 2011
 Event Date: Wednesday, October 11, 2011

Total Program Budget: \$1600
 Amount Committed by Applicant Organization: \$ 200
 Total Amount Requested from Other Funding Sources: \$1400

Please List Sources & Amounts below:

Maine Section of the American Chemical Society \$1000
 ACS UM Student Affiliates \$ 100

Amount Requested from CA/DLS Committee: \$ 300 *
 Revenues, if any, expected (fees, ticket sales): none

Budget Breakdown of Expenses and funds to be used:	CADLS	Other
Honoraria/Services (explain below)	\$ <u>300</u>	\$ _____
<u>\$300 honorarium for Dr. Greenberg</u>		

Travel	\$ _____	\$ <u>200</u>
<u>Dr. Greenberg's travel paid by Dept of</u>		
<u>Chemistry</u>		

Lodging/Meals [Maine Section ACS]	\$ _____	\$ <u>150</u>
Advertising	\$ _____	\$ _____
Printing [ACS Student Affiliates]	\$ _____	\$ <u>100</u>
Supplies and Materials	\$ _____	\$ <u>400</u>
Other (must specify below)	\$ _____	\$ <u>450</u>
<u>supplies for demos as well as science-related prizes and</u>		
<u>refreshments for attendees funded by Maine Section of the</u>		
<u>ACS</u>		

<u>(No CA/DLS funds used for refreshments)</u>		

Total Expenses from CA/DLS funds: \$ 300 *
 Total Expenses from other funds: \$ 1300
 (These two totals should equal the "Total Program Budget" listed above)

- *These amounts should be identical and should not exceed 50% of the total program/event budget. Please note that CA/DLS funds may not be used for receptions and do not normally fund UM employee wages. In addition, please refer to the updated Use of University Funds Administrative Practice Letter for guidance with expenditure allowances (<http://www.maine.edu/pdf/APLIV-I.pdf>). This APL applies to all sources of University funding not just CA/DLS funds. If an award is granted based on this proposal, reimbursement of expenses will not exceed the total CA/DLS request and will be limited to the types of expenditures outlined above.

Cultural Affairs Committee
and
Distinguished Lecture Series
c/o Wanda Madden-Carr
201 Alumni Hall
University of Maine

October 18, 2011

To: Francois Amar

From: Melissa Mayard & Dan Sandweiss, Co-Chairs

On behalf of the Cultural Affairs Committee and Distinguished Lecture Series, it gives us great pleasure to inform you that your proposal, ChemFest2011, has been awarded \$300.00.

Please contact Wanda Madden-Carr at 1-1516 to discuss the procedures in place for the submission of financial expenses related to this award at your earliest convenience.

The following acknowledgement is required on ALL promotional material: ***This event was supported in part by a grant from the Cultural Affairs/Distinguished Lecture Series.***

Attached is a form for your use to summarize the benefits derived from this grant. This form should be submitted within 30 days after the conclusion of the event. Timely submission of your summary will be considered as part of any future funding requests.

The Cultural Affairs Committee members congratulate you and wish you much success on this project.

cc: Jean Desrochers

Cultural Affairs/Distinguished Lecture Series Grant Report Form

Applicant Organization: *Department of Chemistry*

Contact Name: *François G. Amar*

Campus Address: *152 Aubert Hall*

Phone: *581-1168*

E-mail: *amar@maine.edu*

Summary of Program for which grant funds were awarded, including a brief description, place where the program was held; and date and time:

ChemFest, 2011, was held on October 12 in the late afternoon and evening in Aubert Hall. UMaine Chemistry students prepared and presented chemical demonstrations to an audience of about 50 people including about 30 high school students and their teachers as well as members of the campus community. At 6:45 PM, Prof. Arthur Greenberg (UNH) presented his free, public lecture entitled, "Don't Flog Phlogiston," exploring the alchemical historical roots of chemical science in an entertaining presentation. The audience for the talk numbered about 60. The talk was presented in 428 Aubert Hall.

Prof. Greenberg also presented a seminar entitled, "Twisted Amide Linkages: Changing the Site of Protonation," in the Chemistry Department's seminar series (11 AM, October 13, 428 Aubert Hall)

How many people attended the event(s)? If possible describe the different audiences that this program served (i.e. UMaine Students, general community, teachers, etc.).

Afternoon (11/12/11) demonstrations: 50 people including UM students and area HS students and teachers, and community members.

Evening talk(11/12/11): 60 people including UM students, area HS students and teachers, and community members.

Seminar 11/13/11: 50 people including UM students and faculty

How was the event promoted? Please attach copies of promotional material.

Area high school teachers were invited by an e-mail flyer, campus departments were notified of both talks. Copies of the promotional materials are attached.

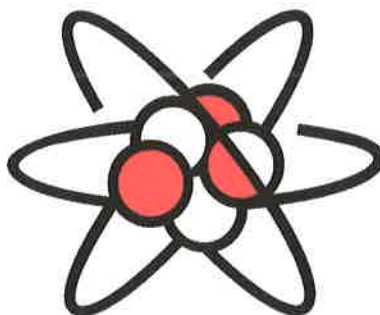
Please describe any modifications to program or budget made after award:

The evening talk was moved from 316 Aubert Hall to 428 Aubert Hall. The final program budget was \$1207.80, well under the \$1600 proposed budget. The \$300 CA/DLS contribution went for the speaker's honorarium and is well under half of the total budget. See budget details attached.

Final Chemfest Program Budget

Item	Amount	Chemistry	Maine ACS	Student ACS	CA/DLS
Travel	\$176	\$176			
Hotel	\$89		\$89		
Local expenses	\$15.72	\$15.72			
Supplies	\$418.54	\$50	\$318.54	\$50	
Honorarium	\$300				\$300
Refreshments	\$208.54		208.54		
Total	\$1207.80	\$241.72	\$616.08	\$50	\$300

The final program budget was \$1207.80, well under the \$1600 proposed budget. The \$300 CA/DLS contribution went for the speaker's honorarium and is well under half of the total budget



You're Invited!

The American Chemical Society
University of Maine Orono Student Group Presents

Chem Fest 2011

In Celebration of National Chemistry Week

Where: University of Maine Orono

Aubert Hall

When: Wednesday October 12, 2011

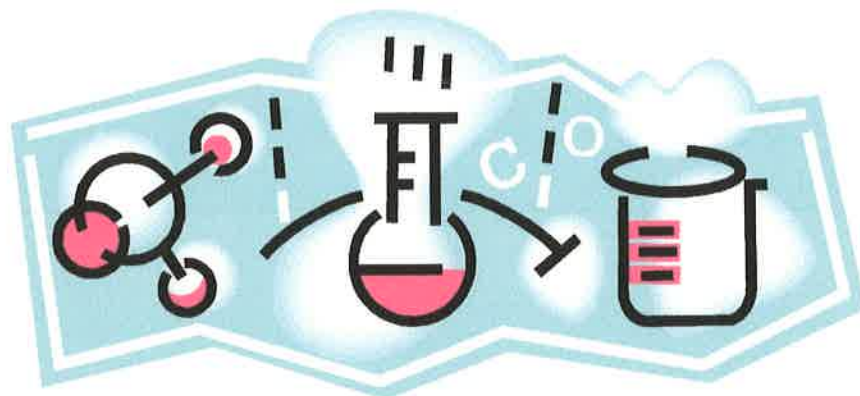
4:30 pm – 8:00 pm

**Please RSVP by October 5 to:
jessica.welch@umit.maine.edu**

We look forward to seeing you!

Department of Chemistry, University of Maine
<http://www.umaine.edu/chemistry/> ; (207) 581-1169

Partial support is provided by the Cultural Affairs Distinguished
Lecture Series fund of the University of Maine



Agenda

4:30 pm High school/Middle school student Arrival

4:30-6:00 pm Break-out rooms for Demos

- 1) Liquid Nitrogen Ice Cream
- 2) Chemistry Demonstrations

6:00 pm Dinner

6:45 pm *Don't Flog Phlogiston*

Arthur Greenberg, Dept. of Chemistry, UNH

Dr. Greenberg will talk about the history of chemistry and alchemy through pictures and stories. As an example, the phlogiston theory of heat that predates modern thermochemistry was a useful predecessor that helped the newer ideas develop.



University of Maine
Department of Chemistry
Presents

3rd Annual CHEMFEST Lecture

Don't Flog Phlogiston

Professor Arthur Greenberg
Department of Chemistry
University of New Hampshire

Wednesday, October 12, 2011 at 6:45 PM
316 Aubert Hall

Abstract: Dr. Greenberg will talk about the history of chemistry and alchemy through pictures and stories. As an example, the phlogiston theory of heat that predates modern thermochemistry was a useful predecessor that helped the newer ideas develop.

Host: François Amar (amar@maine.edu ; 581-1168)

Partial support from Maine ACS, UMaine Student ACS Chapter, and Cultural/Affairs Distinguished Lecture Fund is gratefully acknowledged.

University of Maine
Department of Chemistry
Colloquium

*TWISTED AMIDE LINKAGES:
CHANGING THE SITE OF PROTONATION*

Professor Arthur Greenberg
*Department of Chemistry
University of New Hampshire*

Thursday, October 13, 2011 at 11:00 AM
428 Aubert Hall

Abstract: The amide linkage is one of the fundamental functional groups in organic chemistry. It furnishes the repeating unit in polymers such as nylon, connects amino acids in peptides and proteins and is the reactive linkage in beta-lactam antibiotics such as the penicillins. The ca 20 kcal/mol resonance energy in planar amides (e.g. N,N-dimethylformamide) is manifested in its high barrier to rotation about the OC-N bond. A similar resonance energy is found in a planar lactam such as N-methylpyrrolidone. These planar amides and lactams protonate and alkylate on oxygen. Some 50 years ago the first derivatives of “2-quinuclidone” (1-azabicyclo[2.2.2]octan-2-one) were identified. Unlike typical amides and lactams, these orthogonal lactams have zero resonance energy, are hydrolyzed in neutral water, protonate and alkylate on nitrogen. Where is the “crossover” point in this chemistry? The only “Mama Bear” bridgehead lactam found to date is 1-azabicyclo[3.3.1]nonan-2-one: the only compound in which O-protonated and N-protonated derivatives are calculated and experimentally found to have both tautomers in measurable equilibrium. The distortion required to change protonation site is fairly mild. This may provide potential insights into proteolysis mechanisms.

Host: François Amar (amar@maine.edu ; 581-1168)

Partial support from Maine ACS and Cultural/Affairs Distinguished Lecture Fund is gratefully acknowledged.