

NSMIM

NEWSLINE

Winter 2008 Vol. 40 No. 4

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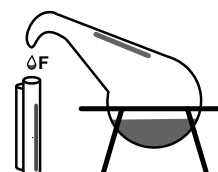
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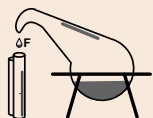
SURVEY

Heather McCollor
Macalester College

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NATIONAL
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OF
SCIENTIFIC
MATERIALS
MANAGERS



WINTER 2008 VOL. 40 NO. 4

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PRESIDENT'S MESSAGE

Happy New Year! This is the time that many of us resolve to make a change. Some of us may choose to lose weight for health or aesthetics. Some may commit to setting more money aside for retirement. Some may decide that this is the year to finally go back to college and get that post graduate degree. Whatever your New Year's resolution may be, it is a path that may be difficult but which will lead to something fulfilling and worthwhile. NAOSMM is no different. As an organization, we set goals. Sometimes the path is challenging with membership spread to all corners of the USA and beyond. But, in every case, the result is success in serving our members with the tools and resources needed to accomplish complicated jobs at our various institutions.

Every year, some of our goals are the same. We want to have a successful Annual Conference and Trade Show which provides educational and pecuniary opportunities for our members. We also want that conference to remain one of the most affordable in the USA. We strive to maintain an up-to-date website and beneficial list serve. We publish an informative newsletter which dispenses organizational data, resources for managers and current vendor specials and products. These are just a few of our recurring annual goals.

This year, we can add a few new goals to the list. We will be working on a Mission Statement for NAOSMM. This statement will be drafted and presented at or before the business meeting in San Antonio. We will be working to create a new committee with its central focus on Safety. As professionals who wear many different hats, many of us are responsible for maintaining safety programs at our institutions. However, all of us are responsible for working safely. One thing this committee will consider is a NAOSMM policy which delineates the minimum safety protocols that we observe as necessary at our respective institutions. This committee will also consider participating with the Department of Homeland Security regarding the Chemical Facility Anti-Terrorism Standard (CFATS). The committee will work with the Lab Safety Institute to help bring this group together.

As the new president, one of my own goals is to have a record number of attendees at the conference (125 or more) in San Antonio. Last year, we gave nearly \$20,000 in travel awards to help get more members to Cleveland. This year, we will again have a \$20,000 budget for travel awards. San Antonio will be a bit less expensive overall, so this \$20,000 should be able to go a bit farther and we hope that it encourages people to apply for the grants. This issue of the *Newsline* has all the information you will need to apply for those funds if your institution does not have the budget to send you. A sample justification letter has been added to the website for those of you who may need to provide your supervisor with compelling professional and monetary reasons to send you. I hope to see all my old friends and plenty of new ones. San Antonio is a fabulous city. Get your taste buds ready for some HOT and SPICY fun!

Good luck with your respective resolutions for 2008 and I hope that we can all work together to continue to make NAOSMM a valuable resource for individuals in the field of scientific materials management.

Sincerely,
Linda S. Perez-Saldaña
President

*Funding for publication and mailing of the
NAOSMM Newsline is provided by Sigma-Aldrich.*

NAOSMM WELCOMES OUR NEWEST MEMBERS

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NEWSLINE Deadline

*The next
deadline for
materials to
be published
in the Spring
issue of the
Newsline is
February 29,
2008.*

TRAVEL AWARD CRITERIA, 2008

ELIGIBILITY CRITERIA FOR TRAVEL FUNDING

The following guidelines will be used by the NAOSMM Awards Committee to determine which applicants will be eligible to receive funding through the Sigma-Aldrich Professional Training Fund Award, the Nalgene and Nunc Professional Training Fund Award or the NAOSMM Seminar and Trade Show Attendance Grants.

1. Applicants must be a regular NAOSMM member with current year's dues paid. New members are strongly encouraged to apply.
2. Applicants must be currently employed at a stockroom/laboratory-related job or as purchasing agent of laboratory supplies by a university, college, private or corporate institution.
3. Current Executive Board members and Awards Committee members are ineligible.
4. Members who receive full reimbursement from their employer to attend the conference are ineligible.
5. All applications postmarked/faxed by April 17 will be given first consideration for funding. Those postmarked/faxed after April 17 will be considered only if funds become available.
6. Award amounts will vary per applicant's financial need and total funds available. Funds awarded are intended to defray lodging and/or transportation costs incurred by member's attendance. Awards do not cover meals or other incidentals.
7. Recipients of travel funds are required to stay at the official designated conference hotel in order to be reimbursed for hotel expenses. Receipts submitted for reimbursement from non-conference hotels will not be funded.
8. Applicants may now request funding every year. However, those applicants that did not receive funding in the prior year will be given first priority.
9. Recipients of any award must attend at least three FULL days of the Conference. (Example: Monday-Wednesday or Tuesday-Thursday)
10. Applicants who have been given an award will be notified of the award amount in early June (sooner if possible) and will be recognized at the Annual Banquet during the conference.
11. Award checks WILL NOT be distributed at the conference. Travel Award recipients are required to itemize and submit original receipts to the Treasurer no later than two weeks following the conference. Checks will be mailed to recipients within two to four weeks after the conference.

Any NAOSMM member who meets these guidelines is encouraged to complete the application for travel funding and return it with the requested paragraph to the Awards Committee Chair by April 17 for consideration.

Mail applications to: Teresa Arnold
George Fox University
Biology-Chemistry
414 N. Meridian St.
Newberg, OR 97132

Fax applications to: 503-554-3884

Questions? Call or email Teresa at 503-544-2724 or tarnold@georgefox.edu

NALGENE AND NUNC PROFESSIONAL TRAINING FUND AWARD

The Nalge Nunc International Professional Training fund was established in 1987 by Nalge Company (now part of Thermo Fisher) for use by eligible members of NAOSMM to attend the annual national conference for the purpose of improving their professional management skills. Nalgene and Nunc and NAOSMM hope additional members will be able to attend the annual conference with the help of these awards.

This fund will be divided into at least six non-repayable awards for regular NAOSMM members who receive little or no financial assistance from their employer. **Primary consideration will be given to those members who have never attended a NAOSMM Conference.** The award may be used to supplement partial funding provided by the employer or as “seed money” to encourage employers to match the award.

NAOSMM SEMINAR AND TRADE SHOW ATTENDANCE GRANT

The NAOSMM Seminar and Trade Show Attendance Grant was established in 1992 with the purpose of helping NAOSMM regular members attend the yearly conference and trade show by providing funding to help offset their conference travel and lodging expenses.

The NAOSMM Seminar and Trade Show Attendance Grant is funded primarily from *Newsline* advertising revenues and through donations from corporations and companies who wish to assist NAOSMM members who do not have financial support to attend the yearly Conference and Trade Show. These corporate or company donations will be combined into a single fund and distributed by the Awards Committee per established guidelines. The donating corporation or company cannot specify a donation for any NAOSMM member. The amount of the donation is at the discretion of each contributing corporation or company. Each year, NAOSMM publishes an alphabetical listing of the corporations or companies who contributed to this grant in the NAOSMM Seminar and Trade Show Program and the *Newsline*. This fund will be divided into non-repayable awards and given to regular NAOSMM members who meet the established guidelines.

SIGMA-ALDRICH PROFESSIONAL TRAINING FUND AWARD

The Sigma-Aldrich Professional Training Fund Award was established in 2007 as a result of the extensive advertising that Sigma-Aldrich does in our *Newsline* and the aid they provide in its printing. This money is intended to maximize the number of attendees at the trade show so that NAOSMM can fully utilize the buying power of its members in securing the best pricing from our vendors. Sigma-Aldrich and NAOSMM will decide annually, based on need, the amount of this fund.

This fund will be divided into non-repayable awards and given to regular NAOSMM members who meet the established guidelines. Primary consideration will be given to those members who are active in NAOSMM. The award may be used to supplement partial funding provided by the employer or as “seed money” to encourage employers to match the award.

NAOSMM - APPLICATION FOR TRAVEL FUNDING - 2008

Name _____ Title _____

Business Address _____

Phone(_____) _____ Ext _____ Fax(_____) _____

Print Email _____

Lodging cost estimate: # of hotel nights _____ times room rate (tax included) of \$127.26 = \$ _____

(If you would like to save funds and are willing to share a room, please contact Karen Miller at kmiller3@weber.edu)

Approximate cost of travel \$ _____ Method of Travel? AIR / CAR / OTHER _____

Please choose one option:

Employer will provide \$ _____ towards lodging and/or transportation (do NOT include funding for meals), so I am requesting an award amount of \$ _____

Employer provides NO funds for lodging and/or transportation, so I am requesting an award amount of \$ _____
Total number consecutive years of dues paying membership in NAOSMM (include present year) _____

Is this your first conference? YES / NO Have you received travel funding in the past? YES / NO

If you have received travel funding in the past, please list which years you have been funded _____

Are you serving on a committee? YES / NO _____ If yes, which one and for how long? _____

Are you presenting or helping at the conference? YES / NO Explain _____

Name of immediate supervisor _____

Phone(_____) _____ Ext _____

Required to receive consideration for travel funding – please check all boxes:

- I would like to attend the NAOSMM Annual Conference. I have received approval for enough time off (vacation, professional training, etc.) to enable me to be present at the conference for at least three **FULL** days of the conference.
- I have attached a paragraph detailing why I want to come to the conference and how I think attendance will benefit me.
- I agree to provide the Treasurer with an itemized account of my travel and lodging expenses no later than two weeks following the conference.

Notification of awards funding – please check one box:

- Email notification of award amount is sufficient.
- I need a formal letter stating the award amount.

Name and Institution as you would like them to appear on an award plaque or certificate:

(Print Name) _____ Name of Institution _____

Signature _____ Date _____

NAOSMM Member

Signature _____ Date _____

Supervisor

SAMPLE JUSTIFICATION LETTER

NOTE: This is a suggested NAOSMM template for a letter you can show your employer to enable you to attend the 2008 NAOSMM conference, July 21-25, 2008 in San Antonio, Texas.

If you decide to use it, please make sure you include your company's name and the correct prices in the appropriate spaces.

Also, you need to do your homework and find out the costs of transportation to and from your location to San Antonio. You may also want to ask your employer to cover the costs of meals. The cost of a hotel room is \$109 per night, plus tax (16.75%). We look forward to seeing you in San Antonio!

Date

Dear [name of your supervisor],

I would like to attend the 2008 Conference and Trade Show of the National Association of Scientific Materials Managers (NAOSMM) that will take place in San Antonio, Texas from July 21 to 25, 2008.

I believe that attending this conference will benefit me both personally and professionally, and that [name of your organization] will also benefit because what I will learn will enable me to become a more productive worker and a more valuable asset to [name of your organization].

The NAOSMM Conference is the only national conference that represents science storeroom personnel, lab managers, scientific buyers, safety officers and business managers. Two days of seminars and educational sessions are followed by a 1 1/2 days Trade Show attended by the leading vendors of scientific materials showcasing the latest technology. Vendors offer money saving discounts only available to show attendees as well as valuable information and contacts for solving product problems. There will be many opportunities during the week to network with my peers and share experiences with professionals and experts in scientific materials management.

Educational sessions presented at this conference will include career and professional development topics as well as personal development. For instance, recent conferences have included educational sessions on laboratory safety, storeroom management, procurement, chemical waste management, homeland security, regulatory compliance and scientific product overviews. These sessions will directly increase my knowledge of scientific materials management, and will have a positive impact on my performance at [name of organization].

The registration fee is only \$175, and includes all seminars, Trade Show, general sessions, receptions, evening activities and closing banquet. Additional costs will be meals, transportation from here to the conference location in San Antonio, TX (insert cost of airfare here), the cost of a hotel room (\$109/night plus tax for X nights, or approximately \$XXX). I am happy to prepare a trip report that would include what I learned, whom I met and a plan to incorporate my new knowledge.

The investment costs are minimal considering the benefits that I expect to derive from this conference. I hope you will agree with me and allow me to attend.

Sincerely,

SAN ANTONIO, TX CONFERENCE

JULY 21-25, 2008



The 2008 Conference and Trade Show is at the Crowne Plaza Riverwalk Hotel in San Antonio, Texas, July 21–25, 2008. Our contracted group rate is \$109/night plus tax (16.75%). A special NAOSMM Reservation page is available for you to make your room reservation and you can link to this page via the NAOSMM conference page: <http://naosmm.org/confer/sanantonio/index.php>

You do not need a special code when making your reservation. If you prefer to call in your reservation, you may call 1.888.623.2800 and tell them you are with NAOSMM. If this line is busy, it will roll over to the main 800 number – tell them you are with NAOSMM, you do not need a special code. The deadline for making reservations is June 27, 2008. Do not delay in booking your room as this Hotel may be fully booked by the time of the conference.

A sample justification letter has been developed for members who need help justifying their attendance at the conference. You can modify this letter to fit your individual needs. You may download this letter on the NAOSMM conference page.

Additional information about tours and evening activities will be posted on the NAOSMM website when they become finalized.

Members of the Host Committee are Carlos Cabello, Linda-Perez-Saldana, Kathryn Quashnock and Raymond Tyler; Edward Glumac, Chair, 2008 Host Committee.

NOMINATION CRITERIA FOR OUTSTANDING SCIENTIFIC MATERIALS MANAGER

I. Eligibility

- A. Nominee must be a regular member of NAOSMM
- B. S/He shall have a lengthy record of achievement unquestionable and sustained, of one or more of the following types
 - 1. A contribution to the advancement of the profession.
 - 2. Distinguished operational, educational, or administrative activities.
 - 3. Participation in NAOSMM meetings programs or service on NAOSMM's board or committees.

II. Sources of Nominations may include:

- A. Immediate supervisor or administrator
- B. Other NAOSMM members
- C. Co-workers

III. Support Material

- A. Nominator must convey clearly and completely in writing to the committee the qualifications of the nominee or nominees either by completing a nomination packet, which includes guided questions or by providing descriptive letters.
- B. A brief written job and activities list must be submitted for each nominee.
- C. Support letter from Supervisor at nominee's place of employment must be provided if supervisor is not the nominator.
- D. Additional support letters will include a minimum of four letters from the workplace (i.e. boss, supervisor, peer, employee, "storeroom user," department head, PI, safety director, etc.) Support letters from NAOSMM members, Sales Representatives, and/or other persons who may know the nominee (minimum of two such letters). Nomination packet includes guided questions that can be used in place of letters if that is preferred.

IV. Evaluation

- A. The committee will evaluate the nominations based on the materials supplied under Section III and how this material fits into the role and scope of the Association. The evaluation will be made in a fair and equal manner, based on the merits of each nomination.
- B. Committee consists of chair, Vice President, Treasurer and at least one additional NAOSMM member.

V. Additional Rules

- A. May not be applied for or proposed by a member for himself or herself.
- B. Nomination Applications must be "postmarked" by May 25 of each calendar year.
- C. Nominations are good for 2 years. At that time, if the Nominee has not received the award, a new nomination may be submitted.
- D. The award shall remain confidential until it is presented at the NAOSMM banquet held each year at the Annual Conference.

WHY CAN'T I GET PAID MORE BY MY EMPLOYER?

What one member did to get more money for doing this often thankless job...

- I got my CSMM certification and then came back and got lifetime certification three years later. This demonstrates my commitment to professional development and tells my employer that I consider this a career; that I am a licensed professional. CSMM made a difference.
- I looked around and found stuff that should be done and wasn't and began doing it. Then, I found the federal regs that mandate this action and brought it to my boss's attention. When he freaked out and said, "Oh, shoot! What are we gonna do?" I calmly said, "Don't worry; I'm already taking care of it." Come merit raise time, he didn't forget those times I pulled his feet out of the fire.
- I documented all these things above and made sure it was put under my boss's nose (or the Dean's) at least once a year - this demonstrates the Japanese concept of kaizen — continuous improvement. I'm never satisfied that my job is done and that I can now sit back, fat and happy, and collect a pay check.
- I went back to school and got my MBA. Free tuition - woohoo!
- I always availed myself of training opportunities, first on campus, then off. I reached out to the local fire department and made the fire marshal my best buddy. People notice these things.

All that being said, life is not fair. My predecessor was classified as secretarial staff and they couldn't replace her for less than she was already making after having this job for 16 years. She retired after 16 years making about 17K and I started at 20K with only my experience as a work-study student working for her.

I gave our salary survey to the HR dept to ensure them that I was underpaid for schools in the Midwest. I hope this was helpful to someone.

Anonymous



2005/06

2002/03

2000/01

1999/02

1998/99

1997

1995/96

1992

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For a complete list of international offices, please visit www.neb.com

Committee Happenings . . .

NOMINATIONS COMMITTEE

Chair: Claris Cupido

The current list of NAOSMM Nominations Committee Members are as follows:

Claris Lynette Cupido	Barry University, Miami Shores Florida
Carlos R Cabello	Rice University, Houston, Texas
Virginia A Sari	Princeton University, Princeton, New Jersey

Activities Accomplished:

Conducted successful election of new officers (NAOSMM)

Board members at last Conference in Cleveland, Ohio, July/August 2007

We used the new Nominations Ballot Form format, which included names of all the candidates running, as well as providing space for "Write -in- Candidate." Absentee Ballots were also received and verified in the election process. Our last meeting was held during the Conference in Ohio on Wednesday, August 1, 2007.

If any members are interested in joining this committee, please contact me at Tel: 305-899-3297 or E-mail : lcupido@mail.barry.edu at Barry University.

NEW MEMBER RECRUITMENT AND MARKETING

Chair: Kevin Mautte

Since the 2007 conference in Cleveland there have been 17 new members enrolled.

The postcards used for marketing will be updated to include examples of colleges and universities which have active members in NAOSMM. The logo will be made smaller and moved to the banner. Bullets will be used to highlight the travel grants, member exclusive discounts and the annual conference (with date and place). These cards should be mailed in early February.

SITE SELECTION COMMITTEE

Chair: Joanne Brown (Interim)

During the late summer and early fall, I continued to research a few properties suggested by members and our search firm, HelmsBriscoe. In the end, three hotels were short-listed and I visited all three during two weekends in September and October. The first visit was to the Hyatt Regency in Jacksonville. On the second visit, I was able to see the two hotels in Virginia during the same weekend; the Marriott Norfolk Waterside in Norfolk and the Marriott Newport News in Newport News. The potential hosts for those locations also were present during the weekend (Amy Aldridge in Jacksonville and Mary Hayward for both Virginia sites).

All three properties were inspected for their rooms, amenities, trade show space, break-out rooms and restaurants. The areas surrounding the hotels, as well as the larger city, were explored to get a feel for shopping, restaurants, tours and for evening activities. After all the visits were completed, I created a spreadsheet of 27 individual categories to compare and contrast each property. In late November, the Board reviewed the pros and cons of each site and concluded that the Jacksonville and Norfolk properties were a better fit for all our needs. Hence, we began negotiations with the two hotels. By the time you are reading this in January, one of those two properties will have been chosen and a contract will have been signed.

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34TH ANNUAL NAOSMM



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DO I NEED A DOT SECURITY PLAN?

Matthew T. Farrell, CHMM, Disposal Consultant Services Inc., matt@labpack.net, 732-424-1998

On March 25th, 2003, all hazardous material shippers and carriers were required by the Department of Transportation (DOT) to have a Security Plan in place. Elements of the plan include:

- Background checks on individuals with access to hazardous materials
- Methods to prevent unauthorized access to hazardous materials
- How to address potential security issues
- Developing a plan
- Reviewing and evaluating your plan

As a college or university, you may ask..."Does this apply to me?"

The DOT has listed seven (7) instances that will require you to have a DOT Security Plan:

- Highway route controlled quantities of class 7 (radioactive materials)
- Greater than 25 kg (55 pounds) of division 1.1, 1.2, 1.3 (explosives)
- Greater than 1 liter (1.06 quarts) of any material that is extremely toxic by inhalation (Poison Inhalation Hazards)
- Hazmat, in bulk, 3500 gallons or more
- Hazmat, non bulk, 5000 pounds or more
- Any quantity that requires placarding
- Select Agents and Toxins regulated by the CDC under 42CFR 73.

The highlighted items are often encountered on college and university campuses, including Conditionally Exempt Small Quantity Generators (CESQG's). Many laboratories still utilize Poison Inhalation Hazards such as bromine, and most schools have shipped hazardous waste on a truck that required placarding.

The following link will take you to the Pipeline & Hazardous Materials Safety Administration (PHMSA) web site where you can access information on creating your own Security Plan. Training requirements are also addressed.

<http://hazmat.dot.gov/riskmgmt/rmsef/rmsef.htm>

If you still don't think that this applies to your institution, think of all of the ways that hazardous materials enter and move around your campus. Can you think of any others?

1) How do hazardous materials enter my campus?

- new professor/researcher arrives on campus
- Delivery to:
 - pool – chlorine
 - boiler – heating oil
 - facilities – janitorial supplies
 - laundry – laundry supplies
 - science buildings – research chemicals
 - art department – art supplies

The following link will take you to the Pipeline & Hazardous Materials Safety Administration (PHMSA) web site where you can access information on creating you own Security Plan. Training requirements are also addressed.

<http://hazmat.dot.gov/riskmgmt/rmsef/rmsef.htm>

buildings and grounds – maintenance supplies (e.g. fertilizer, etc.)
motor pool – maintenance chemicals
golf course- fertilizers and pesticides
food services – greases and cleaners
farm – farm chemicals
employees, the public and vendors – (e.g. batteries to garbage, dumping).
general traffic – accident on street
upstream industry – air, water, rail

2) On campus activities...Where does it go?

- delivering chemicals from stockroom (within building or to another building)
- facilities personnel carrying supplies to different locations
 - painters electrical
 - grounds HVAC
- moving material to a farm or golf course
- a contractor supplying job sites from a storage container
- moving universal waste or hazardous waste from SAA to CSA
- HVAC moving Freon to bone yard

3) How do hazardous materials leave my campus?

- professor/researcher leaving college
- waste oil pickup (food and motor)
- consumption
- universal waste pickup
- hazardous waste pickup
- appliance removal
- garbage removal (what's in that roll off?)
- product returns (e.g. lead acid batteries @ motor pool)
- empty drums or cylinders returned to manufacturer
- spills (drains, streams, etc.)
- contractors (e.g. painters or demolition)
- equipment for maintenance (e.g. pumps, forklifts)



Jack's Chemistry of a DIFFERENT Flavor

Jack Whitney, CSMM

CINNAMON - MMM MMM GOOD!

Warning: If you love Cinnamon in all its delightful varieties, you might not want to read the last half of this article!

A BRIEF HISTORY OF CINNAMON

Cinnamon was first recorded in China in 2700 B.C., and ancient Egyptians included cinnamon in their embalming mixtures, used it in medicines, as well as a flavoring for food. The Romans were known to pay dearly for it and cinnamon is credited to be one of the spices that spurred world exploration, playing a major role in colonial expansion. When the Portuguese invaded Sri Lanka after reaching India in 1536, the Sinhalese king paid them annual tributes of cinnamon, and after the Dutch later captured the island, they established a system of cultivation that exists to this day. In ancient Egypt, cinnamon was used medicinally and as a flavoring for beverages. It was also used in embalming where body cavities were filled with spiced preservatives. In the ancient world cinnamon was more precious than gold. This is not too surprising though, as in Egypt the abundance of gold made it a fairly common ornamental metal. Nero, emperor of Rome in the first century AD, burned a years supply of cinnamon on his wife's funeral pyre — an extravagant gesture meant to signify the depth of his loss. Cinnamon was known in medieval Europe, where it was a staple ingredient, along with ginger, in many recipes. Since most meals were prepared in a single cauldron, casseroles containing both meat and fruit were common and cinnamon helped bridge the flavors. When crusaders brought home sugar, it too was added to the pot. Mince pie is a typical combination of this period which still survives.

SPICE DESCRIPTION

Cinnamon is from a tropical evergreen tree of the laurel family growing up to 17m (56 ft) in its wild state. It has deeply-veined ovate leaves that are dark green on top, lighter green underneath. The bark is smooth and yellowish. Both the bark and leaves are aromatic. It has small yellowish-white flowers with a disagreeable odor that bear dark purple berries. Cinnamon comes in 'quills', strips of bark rolled one in another. The pale brown to tan bar strips are generally thin, the spongy outer bark having been scraped off. The best varieties are pale and parchment-like in appearance. The cinnamon tree grows in the tropical rain forests of India, Sri Lanka, the Philippines and the West Indies. There are as many as 250 different species of the spice. The two main varieties are cinnamomum cassia and cinnamomum zeylanicum. C. zeylanicum is also known as Ceylon cinnamon (the source of the its Latin name, zeylanicum), or 'true cinnamon' which is a lighter color and possessing a sweeter, more delicate flavor than cassia. A native of Sri Lanka (formerly Ceylon), the best cinnamon grows along the coastal strip near Colombo. In its wild state, trees grow high on stout trunks. Under cultivation, the shoots are continually cropped almost to ground level, resulting in a low bush, dense with thin leafy branches. From these, come the finest quills.

BENEFICIAL USES

Cinnamon is one of the world's most widely used digestive aids, helping to improve most gastrointestinal problems. It is greatly effective in relieving intestinal gas and eases diarrhea, nausea and

Cinnamon has long been used to fight the common cold and flu, ease the discomforts of arthritis and rheumatism, relieve spasms and hypertension, lower fever and blood pressure. Cinnamon is now on the list of antivirals. As much as I would like to, a CinnaBon a day is still not recommended. Occasionally, yes. Everyday no, unless you walk/jog to and from the mall.

vomiting. It also contains propanoic acid, which helps to stop the formation of stomach ulcers without interfering in the production of the gastric acid needed for good digestion. Much new research is being conducted into the medicinal benefits of cinnamon, and there are new breakthroughs in the areas of diabetes and melanoma research. Two chemicals extracted from cinnamon (camphorin and cinnamoinin) have been shown in laboratory tests to thwart the growth of liver cancer and melanoma cells. The newest research into cinnamon highlights its hypoglycemic properties. Extracts of cinnamon have been reported to increase insulin activity, increasing the breakdown of glucose and improving blood sugar concentrations. Consuming roughly one half a teaspoon of cinnamon daily may lead to dramatic reductions in blood sugar, cholesterol and triglycerides in Type-2 diabetic patients who are not taking insulin. Japanese researchers have found that cinnamon contains a substance that is both antibacterial and antifungal, and experiments have shown this to be effective in helping to suppress E-coli, candida and other yeast infections, as well as staphylococci and the bacteria found in tuberculosis. Cinnamon has long been used to fight the common cold and flu, ease the discomforts of arthritis and rheumatism, relieve spasms and hypertension, lower fever and blood pressure. Cinnamon is now on the list of antivirals. As much as I would like to, a CinnaBon a day is still not recommended. Occasionally, yes. Everyday no, unless you walk/jog to and from the mall.

Cinnamon has been used medicinally for: Appetite loss, Arthritis, Bronchitis, Cancer, Candida, Cholera, Colic, Colitis, Diarrhea, Digestion, Fevers, Fibroids, Gas, Hair loss, Indigestion, Intestinal spasms, Menstruation, Nausea, Nephritis, Parasites, Psoriasis, Rheumatism, Rheumatoid arthritis, Stomach ulcers, Stomach calming, Thrush, Uterine hemorrhage, Vaginitis, Vomiting, Worms, Yeast infections, Warts, Worms.

Chemicals in: *Cinnamomum verum* J. PRESL (Lauraceae) — Ceylon Cinnamon

Note: if quantity is given, compound occurs in the bark, otherwise it appears in other parts of the plant

1,8-CINEOLE	165 - 800 ppm	GERANYL-ACETATE	
2-PHENYLACETALDEHYDE		GUM	
2-PHENYLETHYL-BENZOATE		HEXANOL	
2-VINYLPHENOL	3 - 12 ppm	HUMULENE	20 - 124 ppm
3-PHENYL-PROPYL-ACETATE	13 - 52 ppm	HYDROCINNAMALDEHYDE	40 - 160 ppm
ACETOEUGENOL	16 - 64 ppm	IODINE	3 ppm
ALPHA-PINENE	20 - 236 ppm	IRON	60 - 421 ppm
ALPHA-TERPINENE	42 - 168 ppm	ISOCARYOPHYLLENE	
ALPHA-TERPINEOL	40 - 264 ppm	ISOEUGENOL	2 - 8 ppm
ALPHA-YLANGENE	31 - 124 ppm	LEAD	
ASCORBIC-ACID	309 ppm	LIMONENE	46 - 184 ppm
BARIUM	60 ppm	LINALOL	230 - 956 ppm
BENZALDEHYDE	26 - 104 ppm	LINALYL-ACETATE	
BENZYL-ALCOHOL		MANGANESE	66 - 140 ppm
BENZYL-BENZOATE	66 - 400 ppm	MANNITOL	
BETA-CAROTENE	1 - 2 ppm	METHYL-CHAVICOL	
BETA-PINENE	14 - 76 ppm	METHYL-CINNAMATE	
BETA-SELINENE		METHYL-EUGENOL	
BORNEOL	2 - 8 ppm	METHYL-N-AMYLKETONE	
BORNYL-ACETATE	10 - 20 ppm	METHYL-VINYL-KETONE	
BORON	7 - 15 ppm	MUCILAGE	20,000 - 37,000 ppm
BROMINE	10 ppm	MYRCENE	5 - 20 ppm
CALCIUM	5,329 - 6,000 ppm	NEROL	
CALCIUM-OXALATE		NIACIN	8 ppm

CAMPHENE	18 - 72 ppm	NICKEL	1.1 ppm - 4.2 ppm
CAMPHOR		NONYL-ALDEHYDE	
CARYOPHYLLENE	135 - 1,316 ppm	P-CYMENE	55 - 448 ppm
CARYOPHYLLENE-OXIDE		PELARGONALDEHYDE	
CHLORINE	300 ppm	PHELLANDRENE	63 - 252 ppm
CINNAMALDEHYDE	6,000 - 30,000 ppm	PHENOL	
CINNAMYL-ACETATE	510 - 2,040 ppm	PHENYL-ETHYL-ALCOHOL	41 - 164 ppm
CINNAMYL-ALCOHOL	26 - 104 ppm	PHENYLETHYL-ACETATE	7 - 28 ppm
CINNZEYLANINE		PHENYLPROPYL-ACETATE	
CINNZEYLANOL		PHOSPHORUS	674 - 1,100 ppm
CINNZEYLANOL-1-ACETATE		PIPERITONE	7 - 28 ppm
CIS-OCIMENE	3 - 12 ppm	POTASSIUM	5,525 - 6,000 ppm
COBALT	0.6 ppm; 1.1 ppm	PROTEIN	35,000 - 43,000 ppm
CONIFERALDEHYDE		RIBOFLAVIN	1 ppm
COPPER	4.9 - 9 ppm	RUBIDIUM	20 ppm
COUMARIN		SABINENE	2 - 8 ppm
CUMENE	66 - 264 ppm	SACCHAROSE	
CUMINALDEHYDE	4 - 100 ppm	SAFROLE	
DELTA-3-CARENE	3 - 12 ppm	SODIUM	287 ppm
DIHYDROFUMIGATIN		STRONTIUM	80 ppm
EO	40,000 ppm	SULFUR	1,900 ppm
ETHYL-CINNAMATE		TANNIN	
EUGENOL	220 - 3,520 ppm	TERPINEN-4-OL	36 - 144 ppm
EUGENOL-ACETATE		TERPINOLENE	11 - 44 ppm
FARNESOL	3 - 12 ppm	THIAMIN	1 ppm
FAT	14,000 ppm	TITANIUM	40 ppm
FENCHONE		TRANS-CINNAMIC-ACID	
FIBER	270,000 ppm	TRANS-LINALOL-OXIDE	5 - 20 ppm
FURFURAL	3 - 12 ppm	TRANS-OCIMENE	
FURFUROL		VANILLIN	
GAMMA-TERPINENE	3 - 12 ppm	ZINC	11.4 - 20 ppm 34 ppm
GAMMA-TERPINEOL			
GAMMA-YLANGENE			
GERANIAL			
GERANIOL	6 - 24 ppm		

Sources:

<http://www.botany.hawaii.edu>

http://www.uni-graz.at/~katzer/engl/Cinn_bur.html

<http://www.herbaextractsplus.com/cinnamon>

<http://www.theepicentre.com/Spices/cinnamon.html>

http://www.culinarycafe.com/Spices_Herbs/Cinnamon.html

<http://www.healthy-r-us.net/cinnamon.htm>

Dr. Duke's Phytochemical and Ethnobotanical Databases@: <http://www.ars-grin.gov/duke/plants.html>

Type in cinnamon as the compound being searched and then format the results

SUMMARIES OF CLEVELAND CONFERENCE SEMINARS...

SAFETY IN NUMBERS: FIVE COLLEGES COLLABORATE ON EH&S

Presenters: Kris Pohlman (Oberlin College)
John Principe (Dennison University)
Darcy Blankenhorn (Kenyon College, NAOSMM member)
Jan Ichida (Ohio Wesleyan University)
Absent (College of Wooster)

When looking into grant funding, go to grant hearings to know the questions asked. Be prepared. You may not receive the grant the first time. Hear the comments and adapt and reapply. Keep trying!

The Environmental Health and Safety (EH&S) managers at five liberal arts institutions (The College of Wooster, Denison University, Kenyon College, Oberlin College, and Ohio Wesleyan University) are collaborating to tackle campus EH&S issues. Working together since the year 2000 as the Five Colleges of Ohio Roundtable, they completed an Ohio EPA Office of Environmental Education grant-funded project targeting hazardous materials management and pollution prevention. Now they are excited to share their successes and failures. They also wanted to encourage other institutions to combine and do the same and more.

The non-profit consortium began under an executive director and a board consisting of the five presidents of the involved institutions. A \$50,000 grant was awarded from the EPA College & University Initiative Grant (Ohio Environmental Education Fund EH&S Grant Program).

In the past two and a half years, the multiple members from each institution have combined their diverse individual training and experience to improve hazardous material handling, increase pollution prevention measures, and increase chemical safety education and awareness. Outside consultants were brought in as needed to provide collaborative activities and professional development opportunities.

Other issues the Ohio5 addressed are those they hold in common such as campus safety, Homeland Security Regulations, new building safety and signage and dismantling of old laboratory facilities.

The recommended way to begin is to dialogue with your college president of the institution and those you would like to approach. After approval is gained, work together with the administration to set forth institutional policies for safety, regulations etc.... The audience to address includes the lab sciences as well as theater and art department, physical facility trades, administration, faculty, staff and students. Instrumental in evaluating needs, planning and training are president, deans and provosts, HR directors, physical facilities directors, building and grounds managers, sustainability coordinators, animal care committees and student employees.

Priority activities should include developing an EH&S reference manual and adapting it for each institution. Then, hold multiple training sessions at each college and the training and make improvements. Training could include:

- | | |
|-----------------|-------------|
| proper labeling | biosafety |
| hazmat | fire safety |

chemical management	accident prevention and response
regulations and compliance	right-to-know
common hazard and exposure control	appropriate MSDS handling
proper storage and disposal	special circumstances (summer programs,
other challenges that face the consortium	construction, emergency contacts during breaks or or after hours)

Other training topics could include: fire safety, emergency response, indoor air quality (radon, maintenance of equipment) and sustainability. Goals to consider are incorporating campus wellness/student health directors, safety & security officers and IT departments (to create an on-line MSDS database, safety information etc...) and statewide communication.

The Ohio5 found certain practices helped them to be successful. They included monthly (rotating location) meetings or teleconferences, frequent email contact between meetings, shared expertise, training together and employing an outside grant reviewer in their grant seeking process. The main ingredient for success was trust and communication.

The results of 2.5 years of effort were positive. Faculty responded surprisingly well. Over 300 attended and 65% of faculty and staff believed changes to work routines would occur as a result of the training. EH&S officer knowledge was increased. Faculty was trained and awareness was raised for all employees (administration through students), the impact of EH&S efforts were improved as well as communication between the sciences, fine arts and physical plant. Sharing updates on policies and procedures, and cooperative meetings with personal protective equipment and vendors increased efficiency

Continual training is necessary and no matter how hard we try, there will still be spills, needle sticks etc... To continue training employees or a newsletter can be effective to keep communication flowing. One-day workshops are also helpful, as is inviting other institutions in for open meetings about once per quarter. It is important to stress that safety is EVERYONE'S responsibility and lead by example.

Other helpful suggestions include creating an agreement between safety officers at nearby institutions to come to each other's assistance in the event of an emergency (PU animals, store books, house students, use the other's classrooms etc.), training ALL (job trades, student life etc.) not just chemistry issues. A helpful method to do this is to have the combined staff do a safety presentation for students and staff at beginning of term/year.

When looking into grant funding, go to grant hearings to know the questions asked. Be prepared. You may not receive the grant the first time. Hear the comments and adapt and reapply. Keep trying! Then, make a POA for after the grant ends. The Ohio5 grant has ended, but it was agreed the group would go on. Look for funding with more grants or combined university funding.

When approaching a reluctant administration, these strategies may be helpful. Start the conversations with "Help me to help you," Present the fine list, Present the need Keep up with the Jones (other Universities are doing...)"

For further resources on this topic, please go to www.Ohio5.org. Link to HTML lab safety training.

Submitted By: Theresa Arnold (George Fox University)

NANO 101

Presented by: Alexis Abramson (Assistant Professor at Case Western Reserve University)
Director of the nanoEngineering Laboratory
Vice-President Technology Innovation
Commercialization and Nanotechnology
Executive Director of the Nano-Network

Life has been engineered based on our size and physical capabilities/limitations. We now have a critical mass of people who can look at things at a much smaller level. We have been manipulating things on scales from aircraft carriers (300 meters or more) down to DNA (1 micrometer or slightly less), but now have the ability to work on the Nanoscale level (1-500 nanometers). The definition of Nanotechnology is: The manipulation of matter with a characteristic length scale of a ~1-500nm range to create new materials, structures, devices, systems, etc.

When you shrink things down to nanoscale, they behave differently than expected...

- A magnet may no longer be magnetic
- A material may GAIN mechanical strength
- A conductor may become an insulator
- An opaque material may look transparent
- Gold particles suspended in water look red

Richard Feynman proposed in 1959 to manipulate and control things on a small scale and said, "It is a staggering small world that is below. In the year 2000, when they look back at this age, they will wonder why it was not until the year 1960 that anybody began seriously to move in that direction. *Why cannot we write the entire 24 volumes of the Encyclopedia Britannica on the head of a pin?*"

Some existing nanotechnologies include: Stained glass, specialized coatings, sunscreens, catalysts, biolabeling, step assists on vans and bumpers, anti-corrosion coatings and paints, longer lasting tennis balls, light weight/stronger racquets, stain free clothing and mattresses, dental-bonding agents, burn/wound dressings, batteries, medical diagnosis and cosmetics.

The future of nanotech includes: Computer memory and processor speed improvements, alternative collection, storage and transmission of energy, improved building materials, cancer therapy and diagnostics, sensors, transportation, environmental clean-up, and molecular manufacturing.

What are some of the potential negative impacts? Ingestion/inhalation health consequences, nanostructure contaminants, most nanomaterials are NOT biodegradable, terrorism, grey goo...from worker to consumer to the environment, and risk assessment must be done to reduce human and ecological exposure.

Challenges to a Nano Future include:

- Educating the public
- Multidisciplinary education for workers
- Better collaboration between industry and academia/research
- Societal and ethical challenges
- Fostering a new generation of scientists and engineers interested in exploring the extraordinary potential of nanotechnology

Submitted By: Tod Gugino (Hope College)

THINK GREEN PART II

BECAUSE A GREENER PLANET IS EVERYONE'S RESPONSIBILITY!

Presented by: Bob Forte of ThermoFisher Scientific

Bob Forte has over 35 years experience in the laboratory equipment, chemicals and supplies industry.

Here is a brief summary of the above titled seminar that was presented at this year's Conference in Cleveland, Ohio, as a follow up to Think Green part I, presented at last year's conference in Savannah, Georgia.

This seminar gave a thought provoking and insightful look into some of the efforts being put forth by ThermoFisher Scientific, and some ideas that we can all incorporate into our own business dealings that can, with small efforts, produce some promising results.

Think Green is a concept of adopting sustainable Green Business principles.

There are three main principles that the efforts are based on: Reduce, Reuse, and Recycle

The speaker highlighted the framework on how laboratories can work to develop a simple plan to start to measure a product's creation, transportation, use, and disposal.

Some concepts discussed, that can be easily instituted into our own daily routine business practices:

"Green Purchasing" including the acquisition of recycled content products and environmentally preferable products.

Using CD's or internet vs. paper catalogues to look up and order products and materials.

Recycle and Reuse as many products as possible.

Reduce waste wherever possible.

Also discussed was; **Lifecycle Assessment** or LCA, a scientific approach to identify and evaluate the environmental impact throughout the lifecycle of a process or product, from raw material to waste.

If everyone contributes just a little to this effort we can lessen the impact on our planet and help ensure a cleaner environment for the future.

Submitted By: Bob Lahair (College of the Holy Cross)



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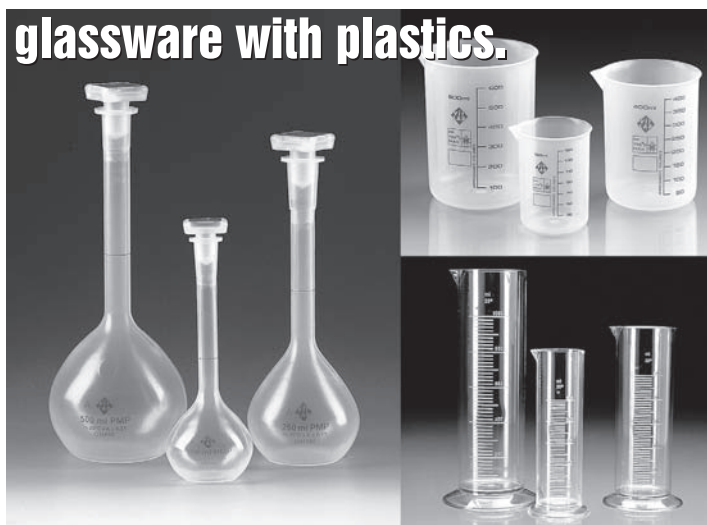
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