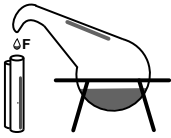


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# NAOSMM

NEWSLINE

Fall 2007 Vol. 40 No. 3

## NAOSMM MANAGER OF THE YEAR 2007



PHIL WAITE  
DENISON UNIVERSITY

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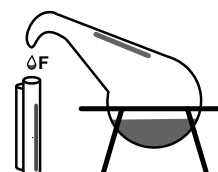
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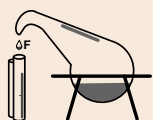
### SURVEY

Heather McCollor  
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FALL 2007 VOL. 40 NO. 3

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## PRESIDENT'S MESSAGE

I am very pleased to be serving NAOSMM as President for the next two years alongside our new board members Vice President: Ed Graham; Secretary: Carol Bowman; Treasurer: Amy Aldridge; Past-President: Joanne Brown. This organization has helped me to be successful in my position at New Mexico State University Biology Department, and my goal is to ensure that all members have the same experience. Our annual conference and trade show is always one of the best ways to move toward that goal and this year was no exception.

Cleveland was the quintessential location for our 34th Annual Conference and Trade Show. The Renaissance Hotel was a beautiful setting for the exceptional seminars, receptions and meetings. Jeff Your praised his hometown with good reason. Gypzy LindH and committee worked tirelessly to provide us with breaking information in science and security. Cassandra Wong used her skills to organize an informative trade show introducing sixteen new exhibitors. Complementing an exceptional week of learning and vendor interaction, we had time for interacting with each other to obtain those peer contacts which will prove to be some of our best assets throughout the year.

In addition to the great educational opportunities during the day, we continued networking into the night. Fisher Scientific provided an ideal venue for us to start the week off with invaluable networking opportunities at their reception on Sunday. It was great to see old friends and meet new ones. On Tuesday night, VWR International, Mallinckrodt Baker, InterMetro Industries and Kimble-Kontes hosted a trip to the Rock 'n Roll Hall of Fame. There was something for everyone to see and hear. Spectrum Laboratory Products and Wheaton Products took us to the Great Lakes Brewing Company for a little Summertime Fun on Wednesday night. The timeless tunes of the Beach Boys serenaded us through an interesting microbrewery tour. We wrapped up the week with a highly educational tour of a Saint Gobain Performance Plastics factory where they make all varieties of Tygon® tubing followed by a visit to the Stan Hywet Hall and Gardens.

Congratulations to Phil Waite of Denison University for receiving the Outstanding Manager of the Year for 2007. This year, we celebrate our 10 year anniversary of the NAOSMM website thanks to the efforts of Phil and committee. Denison University could not say enough about his service to their campus. There was no question that Phil was a worthy recipient of this honor. Congratulations also go out to Bill Best of Iowa State University for all his years in various volunteer positions such as Site Selection; to Jaquie Mann for her years with *Newsline* and on the board; and to Dale Randall of the University of Minnesota for serving so well as the *Newsline* Photographer.

Thanks to everyone for another successful conference. I came home with so many answers along with many new questions to work on here at NMSU. I hope that all attendees remember to take a few minutes to complete the online survey provided by Heather McCollor. This input is critical in making each year a greater success. We hope to see everyone in San Antonio in 2008, July 21-25th. My goal is to see that we get over 125 members to attend. In Cleveland, we had a record number of first time attendees. Let's break all the records in 2008.

In this edition of the *Newsline*, you will find summaries of some of the enlightening seminars that we attended in Cleveland. We hope that those of you who could not attend this year will find this information useful. We also hope to see you next year in San Antonio. It promises to be MUY CALIENTE! Inside, you will also find an extensive list of volunteer opportunities for those of you who are looking towards leadership in NAOSMM. Volunteering with NAOSMM is very gratifying and by doing so, you can get that much closer to your Certification. I am very grateful to have such a wonderful slate of volunteers to help make these next two years successful.

I look forward to hearing from all of you. I welcome all manner of suggestions and I hope that everyone takes advantage of one of the best things about NAOSMM...we are all here for each other. We are a professional group which recognizes the importance of friendship. We welcome the chance to share our personal knowledge with others who need it and we rely upon each other to learn those things we have yet to learn. Nothing compares to the face to face interaction at the conference, but I am confident that even a cold phone call or email will result in a friendly and informative answer to any question you may have.

Best wishes to all of you for a wonderful year.

Linda S. Perez-Saldaña  
President

# BECOME ACTIVE IN NAOSMM — JOIN A COMMITTEE

Below is a list of committees. If you are interested in filling any of the chair openings, please contact the board right away by emailing Ed Graham at [egraham@chem.fsu.edu](mailto:egraham@chem.fsu.edu)

**HOST COMMITTEE 2008:** Ed Glumac is the 2008 Host in San Antonio, TX; if you are interested in helping the committee, please contact Ed at [eglumac@uh.edu](mailto:eglumac@uh.edu)

**HOST COMMITTEE 2009:** Mary Ann Stoll is the 2009 Host in Boise, ID; if you are interested in helping the committee, please contact Mary Ann at [stolmary@isu.edu](mailto:stolmary@isu.edu)

**PROGRAM:** Gypzy LindH will continue as chair; however an asst. chair is needed to train under her and take over for 2009 conference; requires attendance at both the conferences and at the Spring Board Meeting in 2009

**AWARDS:** Chair needed to facilitate all travel grants and service awards; requires attendance at the conference

**SITE SELECTION:** Chair needed to visit locations and review conference/trade show criteria with hotels; Joanne and Kevin are general members

**CERTIFICATION:** Lori Keen will continue as co-chair; however, we will need a second co-chair who is already certified to work with her

**NOMINATION:** Claris Cupido will continue as chair; She is looking for an additional committee member; if you are interested in helping the committee, please contact Claris at [lcupido@mail.berry.edu](mailto:lcupido@mail.berry.edu)

**MEMBERSHIP DATABASE AND DUES:** Jerry Patterson will continue as chair; if you are interested in helping the committee, please contact Jerry at [gpatterson@wooster.edu](mailto:gpatterson@wooster.edu)

**HOSPITALITY/MEMBER INTERACTION:** Karen Miller will continue as chair; if you are interested in helping the committee, please contact Karen at [kmiller3@weber.edu](mailto:kmiller3@weber.edu)

**NEWSLINE:** Barbara Neff will continue as Co-Editor; Another co-editor is needed; in addition, columnists and such are always needed; contact Barbara directly for those positions at [bneff@sju.edu](mailto:bneff@sju.edu). *Newsline* staff is looking for someone to act as their official photographer since Jeff Your has a time conflict; the second co-editor will need to be appointed by the Board.

**AUDITORS:** Karen Grubb will continue as Auditor; a second auditor is needed to review paperwork throughout the year and at the conference, do an audit of the treasurer's books

**MARKETING AND MEMBERSHIP RECRUITMENT:** Kevin Mautte will continue as chair; if you are interested in helping the committee, please contact Kevin at [kemmefl@yahoo.com](mailto:kemmefl@yahoo.com)

**BY-LAWS AND CONSTITUTION:** Lori Keen will continue as chair; if you are interested in helping the committee, please contact Lori at [keel@calvin.edu](mailto:keel@calvin.edu)

## BECOME ACTIVE IN NAOSMM — JOIN A COMMITTEE

**INTERNET:** Phil Waite will continue as chair; if you are interested in helping the committee, please contact Phil at [waite@denison.edu](mailto:waite@denison.edu)

**TRADE SHOW COORDINATOR:** Cassandra Wong will continue as chair; however, we will need an asst. chair to train under her in 2008; requires attendance at the next two conferences

**SURVEY:** Heather McCollor will continue as chair; if you are interested in helping the committee, please contact Heather at [mccollor@macalester.edu](mailto:mccollor@macalester.edu)

**“SAFETY”:** We will possibly be trying to institute this new committee; Jo Wagoner will be organizing members to come up with mandates/responsibilities and a name; no chair will be assigned at this time. Once it is determined how NAOSMM will work with DHS regarding the new CFATS, the board will confer on assigning one or more individuals to represent NAOSMM. If you are interested in contributing to the process of creating this committee, please contact Jo at [jwagoner@butler.edu](mailto:jwagoner@butler.edu)

We hope to hear from many of you.



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## NEWSLINE DEADLINE

The next deadline for materials to be published in the Winter issue of the *Newsline* is **November 26, 2007**. It is essential that any material to be included for that issue be in my hands by that date. *Articles received after that date will appear in the Spring, 2008 issue.* Articles should be submitted in Microsoft Word via email whenever possible.

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

## IN MEMORY HAROLD ROSS STANDEFER



A native of Commerce, Texas, he died Tuesday, September 11, 2007, at his residence in Baton Rouge. He was 83 and a U.S. Navy veteran of World War II. After the war, Harold earned a degree in Chemistry and worked for Sargent-Welch from 1948 to 1983. He entered as a Sales Manager, but worked his way up to Manager of the International Division. After leaving Sargent-Welch, he became the Scientific Materials Manager at Louisiana State University. Harold joined NAOSMM in 1986 and immediately began serving as our Trade Show Coordinator, a position he continued in until his retirement in 1997. That same year, Harold received an Outstanding Service Award from NAOSMM.

Survived by his wife, Peggy Massey Standefer; four sons and two daughters-in-law, Steven and Donna Standefer and Christopher Standefer, all of Arlington, Texas, David Standefer, Pleasant Hill, Calif., and Mark and Judy Standefer, Arlington Heights, Ill.; nine grandchildren and three great-grandchildren. Preceded in death by his first wife, Elizabeth Taylor Standefer. He was a member of Chapel on the Campus and the American Chemical Society.

Messages of condolences can be sent to Peggy Standefer at 722 South Lakeview Drive, Baton Rouge, LA 70810.

# No More Broken Glassware!

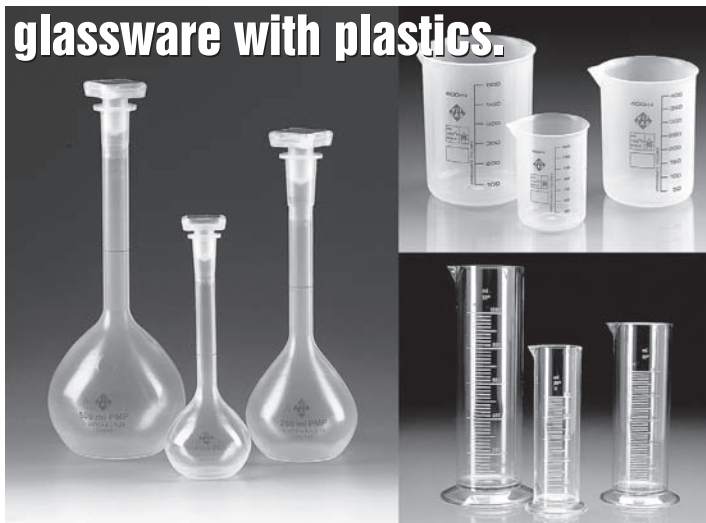
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## NAOSMM MANAGER OF THE YEAR FOR 2007

Philip A. Waite was named the 2007 Outstanding Scientific Materials Manager of the Year at the recent NAOSMM conference and trade show in Cleveland, Ohio. In recognition of his achievement, Jerry Clark of Kimble-Chase Glass made the presentation of a beautiful piece of Fräbel art glass to Phil at the awards banquet.

Philip presently serves as the Stockroom Supervisor and Chemical Hygiene Officer at Denison University in Granville, Ohio. Phil graduated from Bowling Green State University in 1975 with a B.S. in Chemistry and Biology. In December 1975, as a Peace Corps Volunteer, he went to Liberia, West Africa and taught high school science and math. He married Regina in November 1977, just before returning to the U.S. for a year. Together, they returned to Liberia and Phil taught science in the English division of a German iron mining company for four and a half years.

He returned to the U.S. in late 1983, followed by his wife and daughter the next year. Phil started taking computer and mathematics courses at The Ohio State University while bartending to make ends meet.

Philip joined Denison University in February 1986 in the Chemistry Department replacing long-time NAOSMM member, Maurice Guthridge, who had recently retired. He encouraged Phil to join NAOSMM but he did not join until 1990. He attended his first conference at Valley Forge, PA in 1992. In September 1986, he continued computer classes at Denison eventually totaling thirteen. In 1992, Phil accepted the position of Chemical Hygiene Officer and published Denison's first Chemical Hygiene Plan on the Denison Campus Wide Information System (CWIS), a Bitnet platform.

When the World Wide Web reached Denison, Phil Waite developed the Security and Safety Web site and followed that with the Department of Chemistry Web Site. In 1996, at the New Orleans NAOSMM conference, many of us remember Phil's seminar, "Don't Be Left Behind on the Information Superhighway." That presentation sparked Shirley Buchli, then President, to appoint Phil as Chair of the Web Site Committee along with committee members: Jeff Your, Dave Robertson, Joanne Scillitoe, and Allison Koster. The following Spring of 1997, NAOSMM published its first Web Site. The following year, the Executive Board merged the Listserv and Web Site Committee and named it the Internet Committee.

When Philip was first employed at the Chemistry Department the inventory for all the equipment and chemicals was a database on a VAX mainframe. Phil converted it to the first PC database (DataPerfect), then to a Windows database, (Paradox) and then to an MS Access platform because the University did not support Paradox. In 2002, tired of having to learn a new MS Access program every time his desktop PC was replaced, Phil developed a Web-based inventory using the lessons learned from the NAOSMM online directory first published in 2001.

In addition to employment at Denison, Phil has worked as a bartender for over twenty years at a four-star restaurant, a Mexican restaurant, a brewpub and a hotel. Between 1994 and 2000, he taught computer classes at the adult night division at a local vocational school. Phil's other interests include playing the guitar, bicycling and golf.

Please join me in congratulating Philip A. Waite as NAOSMM honors him with our highest award, the Outstanding Materials Manager of the Year 2007!

*Submitted by Jeff Your, John Carroll University*

## THANK YOU SO MUCH!

I want to take this opportunity to thank all the people who made it possible for me to receive the Manager of the Year Award. It is a high honor and a distinct privilege and I am overwhelmed with gratitude for the support given on my behalf by the Department of Chemistry and Biochemistry and Environmental Health and Safety Office at Denison University. I also must recognize NAOSMM members who wrote letters of support; thanks Jeff and Ed. The Awards Committee was very gracious in selecting me for this honor.

I would like to express a special thanks to the Past Executive Boards and the members of the Internet Committee. Without the advice and consent from these committees, the Web Site would not be possible. I would like to acknowledge the efforts of Tom Blakeney for making the NAOSMM Listserv function so smoothly. And every page that you view on our Web Site has been meticulously proofed by Ginny Sari. Thank you, Ginny, so much. In addition, the Distinguished Service Award received should really be shared with all of these members.

I also want to thank Kimble/Kontes and Jerry Clark for the beautiful Fräbel sculpture. I would like to express my appreciation to all the members who conveyed their congratulations to me when I won the award. Their expressions of gratitude make all the hours of work on the Web Site well worth it. When I joined NAOSMM, I joined more than a professional organization, I joined a second family. I must also express my thanks to my wife, Regina, who has joined me at every conference since 2000. All

the members have made Regina feel so welcomed. Thank you all so very, very much.

Phil Waite  
Denison University  
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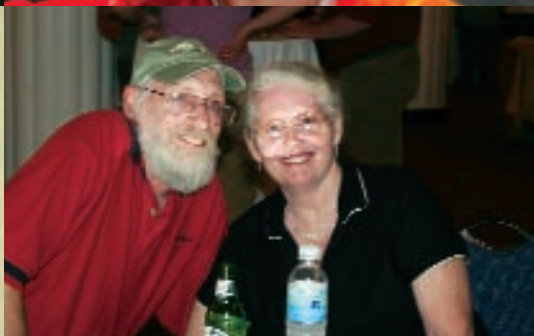
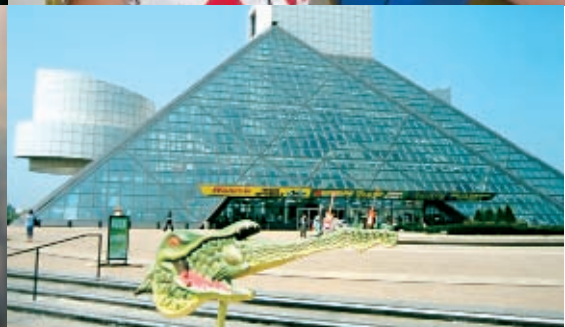
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# 34TH ANNUAL NAOSMM TRADE SHOW & CONFERENCE



# 2007 CLEVELAND, OHIO





**NAOSMM SEMINAR  
AND TRADE SHOW  
ATTENDANCE GRANTS**

Teresa Robertson, Linda Riebling,  
Gary Mansfield, and Beth Brubaker



**SIGMA-ALDRICH PROFESSIONAL  
TRAINING FUND AWARD**

Shannon Timmons (Sigma-Aldrich),  
Dale Randall, Susan Teague,  
Heather McCollor, Karen Grubb,  
Victoria Sample, Carol Bowman, Sandra  
Payne, Ed Graham, Teresa Arnold,  
Gypzy LindH, and Mary Ann Stoll



**NALGENE AND NUNC  
PROFESSIONAL TRAINING AWARD**

Peter Charlton (Nalgene and Nunc),  
Juanita Higley, Tara Grove, Jennifer  
Bachman, Kristi Rehrauer, and Tammy  
Subotich (absent: Bryan Rowland, Kaitlin  
Cash, Lynn Kozinski)

## SEMINAR SUMMARY FROM CLEVELAND CONFERENCE

# HELIUM SUPPLY, LOGISTICS, AND SHORTAGES

*Presented by Bob Phillips, NE Division General Mgr.-Praxair, Inc.*



This was a very interesting and informative seminar for anyone who uses or has to purchase Liquid Helium for their facility.

Helium is a limited natural resource. Terrestrial helium is the result of the decay of Uranium and thorium. Most of it diffuses through the porous crust into the atmosphere where its low molecular weight allows it to escape into outer space. Some helium, along with natural gas, is captured in geological formations with non-porous caps. These helium-bearing natural gas deposits are the only commercial source of helium. Concentrations from several ppm to 5%. Usually concentrations of 0.3% or greater are considered commercial.

Helium was a domestic product. Until 1995, the U.S. supplied almost all of the World's helium. The two main sources were Hugoton Field in Kansas and La Barge, WY (EXXON). The U. S. Government Conservation program first developed helium resources in Kansas, Oklahoma, and Texas (Helium Act of 1925). The Helium Act Amendment of 1960 established the helium storage system and allowed private helium production.

Helium is now becoming a Global product. The majority of the world's helium is still supplied by the U.S.

The supply disruption is the result of several factors.

1. Natural gas producers shut down or slow production in spring and summer due to decreased seasonal demand and insufficient storage.
2. Crude helium sources have seen unprecedented unplanned outages due to many miles of natural gas (NG) pipe in the ground that is deteriorating.
3. The new Helium sources in Algeria and Qatar are both operating at less than 50% of advertised volume.
4. The Hugoton Kansas field is declining at a rate of 10%.
5. Market demand is increasing for Helium in many areas such as electronics, fiber optics, space exploration, healthcare, research, etc.

Some new sources have been identified in Algeria, Poland, Russia, Qatar, and Australia, but these are very remote and unapproachable at this time. Some of these areas are producing helium now but for the most part does not sell to others.

The priority for helium in the U.S. is: 1) Government Contracts 2) Vendors under contract 3) no contract.

A shortage in helium is predicted for at least a couple of years and possibly longer if the market does not develop overseas.

### SUMMARY

Helium is a limited natural resource.

Helium supply is very tight globally.

Low cost crude sources are in decline. Access to these sources is being bid up.

New sources are more remote and more expensive.

Global sourcing and rising fuel price significantly increases distribution cost.

*Submitted by Paulette Lynch  
Vanderbilt University*



## LABORATORY SAFETY QUESTION AND ANSWER SESSION

Presented by Jim Kaufman, Laboratory Safety Institute

After one of our regularly scheduled seminars had to be canceled, Jim Kaufman volunteered to jump in and present another seminar for us. Jim decided to present a laboratory safety question and answer session and it proved to be very useful for those of us that were able to attend. I will list some of these questions we had for Jim followed by his answers.

- Q. How do we get the faculty to obey the safety rules?  
A. Unfortunately there is no clear answer for this but there are some things that may help. First of all, ask your department chair or supervisor to define how much authority you have over the faculty, then put all the safety rules in writing, have them sign a waiver saying they read and understood the rules, and keep a copy for your records. If something happens after this, and they weren't following the rules, the liability falls off of your shoulders and on to theirs. Once this happens to one person, the rest of them will sit up and take notice. If this still does not seem to work, then you should not be afraid to take it up the chain of command. Send a letter to the Dean and then to the President of the university if necessary.
- Q. How do I get my faculty to stop eating in the labs?  
A. Have a safety meeting about the dangers of eating in the lab. Use examples that make a point, like the salmonella outbreak in a cafeteria from owl pellet dissection. You have to make them realize that they could actually kill a student or fellow faculty member. You can also find out the school where they got their PhD, go to their website and print off the rules, then ask the faculty member if they were able to eat in the labs while they were there.
- Q. How do you monitor for formaldehyde?  
A. You can buy monitor badges from 3M for about \$60 a piece. Have the student wear these around their necks as they are working. You can use a formaldehyde detector and these are usually about \$2000. You can also use SKC monitoring tubes, these can be as low as \$10 a sample.
- Q. The company I get my preserved specimens from says to dispose of them according to my local city and county laws, but I heard EPA is saying you can't put any recognizable body part in a landfill, so what should I do with my cats, etc., after I use them?  
A. First of all, don't ever believe it unless you have it written down. Go to the EPA website and search this. If you find it, then you will have to find a different way of disposal; if you can't find it, then dispose of them how you think you should. If you can't find it and are still unsure, email the EPA question service. They will respond to you within a few days.
- Q. How much does it cost to have LSI come to my school and train my faculty?  
A. \$3100 a day for training, \$45 a person for books, plus travel, plus shipping of material both ways. The total cost is usually about \$5000. There are other ways to do this that might be cheaper, such as being a host school, getting together with another local college or university, or having a company help sponsor the event. Contact LSI for more details.

Overall this session was very helpful and answered some very important questions. Jim offered having another question and answer session at the San Antonio conference and I think it would be a wonderful idea. We have multiple situations arise during the school year and this would be a great time to have some of those questions we have on our minds answered.

Submitted by Kristi Rehauer, Elon University

## CSMM: How To BECOME CERTIFIED

Lori Keen, Calvin College  
Ed Graham, CSMM, Florida State University

Lori went through basics and some specifics regarding certification, outlining requirements and explaining examples of training. She stated that what on the surface appears to be a rather daunting undertaking, is actually not so difficult if taken one step at a time. She indicated that all members, at one time or another, have undergone training at their institutions which would fulfill requirements under the various sections needed for certification. She further pointed out that documentation should be provided showing course description, dates attended, and certificates of completion.

With regard to the paper, Lori and Ed said six topics were required with a good bibliography citing all references and that topics didn't necessarily have to be related to one's specific job or institution. They also noted that examples of papers were available on our website as well as old *NewsLines*. Some key pointers they gave were to gather and organize, develop a plan for taking one topic at a time, do research and write, start early, and keep plugging! Above all, label materials, send to committee, and don't forget to use the committee for help!

*Submitted by Phil Edwards  
University of Central Florida*



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## Jack's Chemistry of a DIFFERENT Flavor

Jack Whitney, CSMM

*(One of the Newline's favorite columnists is back with a new column. Jack Whitney will once again be providing us with fascinating and interesting information.)*

### THE WORLD'S MOST POPULAR BEAN JUICE BEVERAGE

Warning: If you love Coffee and cannot live without it every day, you might want to consider not reading the last half of this article unless you want to stop drinking so much coffee!

Ahh, Coffee. The wonderful aromas. The delightful tastes. We all love to sit around the coffee cup and socialize for hours. Sure the coffee's great steaming hot, but its not all that bad two hours later either. But what is coffee? How old is it and where did it come from? And what makes it taste the way it does?

#### A SHORT HISTORY OF COFFEE:<sup>3</sup>

- 500 A.D.: Ethiopian goat herder named Kaldi first discovered coffee. One day, he noticed his goats frolicking around in an unusually spirited manner. He observed that they were also eating the berries of a nearby shrub. Not being one to be left out of all the fun, he decided to try the berries himself. He was energized and pleased with the effects the cherries (red berries) had on him. He told his friends and soon word spread throughout the region.
- 1000 A.D.: Arab traders bring coffee back to their homeland and cultivate the plant for the first time on plantations. They also began to boil the beans, creating a drink they call "qahwa" (literally, that which prevents sleep).
- 1600: Coffee, introduced to the West by Italian traders, grabs attention in high places. In Italy, Pope Clement decides to "baptize" coffee, making it an acceptable Christian beverage.
- 1607: Captain John Smith helps to found the colony of Virginia at Jamestown. It's believed that he introduced coffee to North America.
- 1645: First coffeehouse opens in Italy.
- 1652: First coffeehouse opens in England.
- 1668: Coffee replaces beer as New York's City's favorite breakfast drink!
- 1672: First coffeehouse opens in Paris.
- 1721: First coffee house opens in Berlin.
- 1727: The Brazilian coffee industry gets its start when Lieutenant Colonel Francisco de Melo Palheta is sent by the government to arbitrate a border dispute between the French and the Dutch colonies in Guiana. Not only does he settle the dispute, but also strikes up a secret liaison with the wife of French Guiana's governor. Although France guarded its New World coffee plantations to prevent cultivation from spreading, the lady said good-bye to Palheta with a bouquet in which she hid cuttings and fertile seeds of coffee.
- 1773: The Boston Tea Party makes drinking coffee a patriotic duty in America.
- 1886: Former wholesale grocer Joel Cheek names his popular coffee blend "Maxwell House," after the hotel in Nashville, TN where it's served.
- 1900: Hills Bros. begins packing roast coffee in vacuum tins, spelling the end of the ubiquitous local roasting shops and coffee mills.
- 1901: The first soluble "instant" coffee is invented by Japanese-American chemist Satori Kato.
- 1903: German coffee importer Ludwig Roselius turns a batch of ruined coffee beans over to researchers, who perfect the process of removing caffeine from the beans without destroying the flavor. He markets it under the brand name "Sanka." Sanka is introduced to the United States in 1923.
- 1938: Having been asked by Brazil to help find a solution to their coffee surpluses, Nestle Company invents freeze-dried coffee. Nestle develops Nescafe and introduces it in Switzerland.
- 1940: The US imports 70 percent of the world coffee crop.

- 1942: During W.W.II, American soldiers are issued instant Maxwell House coffee in their ration kits. Back home, widespread hoarding leads to coffee rationing.
- 1946: In Italy, Achilles Gaggia perfects his espresso machine. Cappuccino is named for the resemblance of its color to the robes of the monks of the Capuchin order.
- 1971: Starbucks opens its first store in Seattle's Pike Place public market, creating a frenzy over fresh-roasted whole bean specialty coffees. If current trends continue, there soon there will be a Starbucks Coffee House on every corner of every city in the country!

There are two methods through which coffee is processed in today's world. There is the dry method through which coffee beans are sun dried for several weeks. There is the wet method through which the coffee beans are placed in a large fermentation vat after which they are dried, either mechanically or in the sun. The vast majority of so-called gourmet coffees are processed using the wet method.

Coffee is the second most valuable and widely traded commodity in the world today. Annual coffee sales top \$70 billion. More than 50 percent of all citizens of the United States begin their days with a cup of Jo'. The typical coffee consumer will take in three cups of the beverage each and every day.<sup>4</sup>

By comparison, annual per capita coffee consumption in 2000 was a whopping 11.26 kilograms in Finland, 6.72 kilograms in Germany, 4.07 kilograms in the United States, 2.38 kilograms in the tea-loving United Kingdom, and 1.31 kilograms in Ireland, Japan 3.17 kilograms.<sup>5</sup>

And now the important part:

## THE FLAVOR AND AROMA INGREDIENTS OF COFFEE

The ingredients in plain black coffee are water (98+%) and the roasted seeds of the coffee plant, *Coffea arabica* (<2%). The chemical constituents of coffee would be those compounds in the roasted coffee beans that are soluble in boiling water. According to Dr. Duke's Phytochemical Database<sup>1</sup>, these are the major flavor and aromatic ingredients of unroasted, green coffee beans:

2,3,5-TRIMETHYLPHENOL	HYPOXANTHINE
2-ETHYLPHENOL	2-METHOXY-4-ETHYLPHENOL
2,4-METHYLENEPHENOL	PUTRESCINE
DICAFFEYOYL-QUINICACID	SCOPOLETIN
4-ETHYLPHENOL	SPERMIDINE
4-METHOXY-4-VINYLPHENOL	SPERMINE
ACETALDEHYDE	SUGARS
CAFFEINE	TANNICACID
CAFFEOL	TANNIN
CAFFEYOYL-3-QUINICACID	THEOBROMINE
CAFFETANNICACID	THEOPHYLLINE
CHLOROGENICACID	THIAMIN
CITRICACID	TRIGONELLINE
DATURICACID	XANTHINE
GUAIACOL <sup>2</sup>	

Many of these compounds, like chlorogenic acids, will be destroyed by the roasting process, and many will be oxidized to form new compounds not listed above. Most of these, like the phenolics at the top, are responsible for the aroma of the coffee, while others, like the xanthine derivatives give coffee its stimulant qualities. The source of the bitterness associated with roasted seeds, such as in coffee, chocolate, and various malts have been isolated. The compounds that give these foods their distinctive bitteresses, are cyclic dipeptides, also known as diketopiperazines, or DKP's for short. In chocolates, most of these have phenylalanine as one of the two amino acids, producing benzoyl-diketopiperazines, while the flavorant cyclic dipeptides in coffee all contain at least one proline, producing the heterocyclic pyrrolidino-diketopiperazine. In coffee, the second amino

acid is either another proline (bispyrrolidino-diketopiperzine), or a hydrophobic amino acid, as in cyclo(pro-ile), cyclo(pro-val), or cyclo(pro-phe): this last one is particularly interesting, since it contains phenylalanine, tying the bitterness of coffee with the bitterness of chocolate. And, of course, each brand has just a little more of this or a little less of that or even a dash of this other compound making them all taste just slightly different. But you already know which brand tastes best! That doesn't stop you from looking for something just a little bit more...

*Please, enjoy your morning beverage more completely now knowing all that is in it.*

## NOTES

1. For a complete listing of over 100 ingredients in the coffee bean, go to the following web site: Dr. Duke's Phytochemical and Ethnobotanical Databases @ <http://www.ars-grin.gov/duke/plants.html>. Type in coffee as the compound being searched and then format the results as you like.
2. No quantities are listed so most of these are in the miligrams/cup range or even parts per million.
3. Timeline of the history of coffee from the UTNE READER, Nov/Dec 94, by Mark Schapiro.
4. <http://www.quotecoffee.com/coffeehistory.html>
5. <http://www.friedlnet.com/news/03031606.html>

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# NAOSMM 34<sup>TH</sup> ANNUAL BUSINESS MEETING

AUGUST 2, 2007

RENAISSANCE CLEVELAND HOTEL

CLEVELAND, OHIO

Note: On Monday, July 30, 2007, a short business meeting was called to order by President Joanne Brown at 8:03 am. President Brown made a motion to appoint Sue Viglione and Karen Grubb as auditors. Janice Westerling seconded the motion. No objections were made. The meeting was closed at 8:08 am.

The 34th annual business meeting of the National Association of Scientific Materials Managers (NAOSMM) was called to order by President Joanne Brown at 1:35 pm, Thursday August 2, 2007, at the Renaissance Cleveland Hotel in Cleveland, Ohio. Lamar Houston was appointed parliamentarian by President Brown.

**Minutes:** A motion to approve the minutes from the 33rd Annual Business Meeting from August 3, 2006, as published in the Fall 2006 NAOSMM *Newsline*, was made by Lori Keen, seconded by Mary Ann Stoll and approved.

**Election:** Claris Cupido, Chairperson of the Nominating Committee announced the slate of candidates for the following positions:

President: Heather McCollor and Linda S Perez-Saldaña

Vice President: Ed Graham and Ginny Sari

Secretary: Carol Bowman

Treasurer: Amy Aldridge and Teresa Arnold

The President called for nominations from the floor for each position. Hearing no nominations, the President closed the nominating procedure and the ballots were distributed and the election took place. The nominating committee then collected all ballots, and exited the room to count all ballots, proxies and absentee ballots.

**Auditors' Report:** Sue Viglione reported that she and Karen Grubb had reviewed all transactions for the period of July 1, 2006-June 30, 2007. They found neat and orderly records of all financial transactions. The records were in line with generally accepted accounting procedures. Jo Wagoner made a motion to accept the auditors' report as given, seconded by Sherrill Wolf, and approved.

**Treasurer's Report:** Amy Aldridge reported on Fiscal Year 2006. Total Income was \$103,219.38 and total expenses were \$104,392.76, with a year-end loss of \$1,173.38. Within the report there was also a summary of the income/expenses of the last six NAOSMM Conferences.

**Committee Reports:** Summary packets were handed out earlier in the week.

**Awards Committee:** Linda Perez-Saldaña announced that Ana Rodriquez will become awards chairperson.

**Newsline:** Barbara Neff reminded the NAOSMM members who volunteered to report on presentations given during this conference to send the reports to her before the end of August. She and Joanne Brown will co-chair this committee.

**2008 Host:** Ed Glumac announced that the next NAOSMM conference will be held in San Antonio, Texas, at the Crown Plaza Hotel River Walk. There is a room rate of \$109 plus a 16.75% tax. The event will be held a week earlier than the usual NAOSMM conference time, due to hotel availability: July 18, 2008 through July 25, 2008. Gypsy LindH will be program chairperson. There will be wireless internet access for about \$9.95 per day, and a parking rate of \$22 per day.

Conference committee members will be Carlos Cabello, Linda Perez-Saldaña, Kathryn Quashnock and Raymond Tyler.

**2009 Conference:** Mary Ann Stoll reported that the 2009 conference will be held in Boise, Idaho, at the Grove, A Coast Hotel, at a room rate of \$109 plus 13% tax. There will be a \$4.95 per day parking rate.

**Site Selection Committee:** Kevin Mautte announced that he is stepping down from chairmanship of the site selection committee but will remain on the committee. Joanne Brown is working with Kevin Mautte to pick a site on the east coast of the US. The Executive Board changed the national regions from six to three. Several preliminary proposals from hotels/conference sites have come in from Maine, Virginia and northern Florida.

**Survey Committee:** Heather McCollor handed out paper copies of the 2007 Conference Survey. She asked members attending the conference to use the paper copies as a template and to enter the data online when they returned home. There will be a new survey developed this year for questions of benefit packages in addition to salary range.

**Internet:** Phil Waite announced the inauguration of the new NAOSMM homepage which is graphically pleasing and easy to navigate. There will be an improved corporate members' page, with acknowledgement to corporate members who go beyond the basic corporate membership and offer programs, incentives and support to NAOSMM members and the conference.

Phil also discussed the ongoing effort to update the member database, through the database chair, Jerry Patterson. Obsolete data and old members will be purged in a timely manner.

**Program:** Gypzy LindH asked members to become active and promote and/or join the committee.

**Trade Show:** Cassandra Wong reported that there were 16 new vendors.

**New Member Recruitment and Marketing:** Kevin reported that the post card advertisement for new members worked well. There were mass mailings to academic stockroom managers as well as five post cards to members. There were 66 new members this year. 20 new members came to the conference. 8 other members were first-time attendees. NAOSMM needs to develop even more outreach programs.

No Old Business.

**New Business:**

Nomination Chairperson Claris Cupido announced the election winners:

President: Linda S. Perez-Saldaña

Vice President: Ed Graham

Treasurer: Amy Aldridge

Secretary: Carol Bowman

As per the bylaws of NAOSMM, the previous president becomes "past president" and is a member of the NAOSMM board.

Past President: Joanne Brown

Jo Wagoner announced that she is interested in inaugurating a new committee on Safety.

She was advised to research this idea and present information to the new board. The board would need specifics on the scope of the committee, designation of who would be included in the committee and overall goals of such a group.

Gypzy LindH noted that during the Chemical Facility anti-Terrorism Standard program, Wade Townsend, Federal Department of Homeland Security, invited NAOSMM to designate a NAOSMM member(s) to participate in the ongoing planning for Federal mandates for chemical storage facilities in all academic settings.

There was a motion to adjourn the meeting by Mary Ann Stoll, seconded by Kevin Mautte. The motion passed. Joanne Brown closed the meeting at 2:40 pm.

Respectfully submitted,  
Janice A. Westerling, CSMM  
NAOSMM Secretary

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SEE PAGE 2**