

**Air & Waste Management
ASSOCIATION
Greater St. Louis Section**

***Gateway to the
Twenty-First Century***

OCTOBER LUNCHEON MEETING

Tuesday, October 17, 2000

**David Doyle
USEPA Region VII**

The St. Louis Community Air Project

Meeting Sponsored by T. L. Maddox Company

Favazza's
5201 Southwest Avenue
314-772-4454

\$19.00 Members/\$24.00 Non-Members
11:30 – 11:50 Registration/Networking
11:50 – 1:15 Lunch/Business Meeting

Your reservation must be received by
Noon, Friday, October 13, 2000

Please send the following information to Jennifer Markwardt:
Email: jennifer@turco.com Or Fax: 314-286-7857

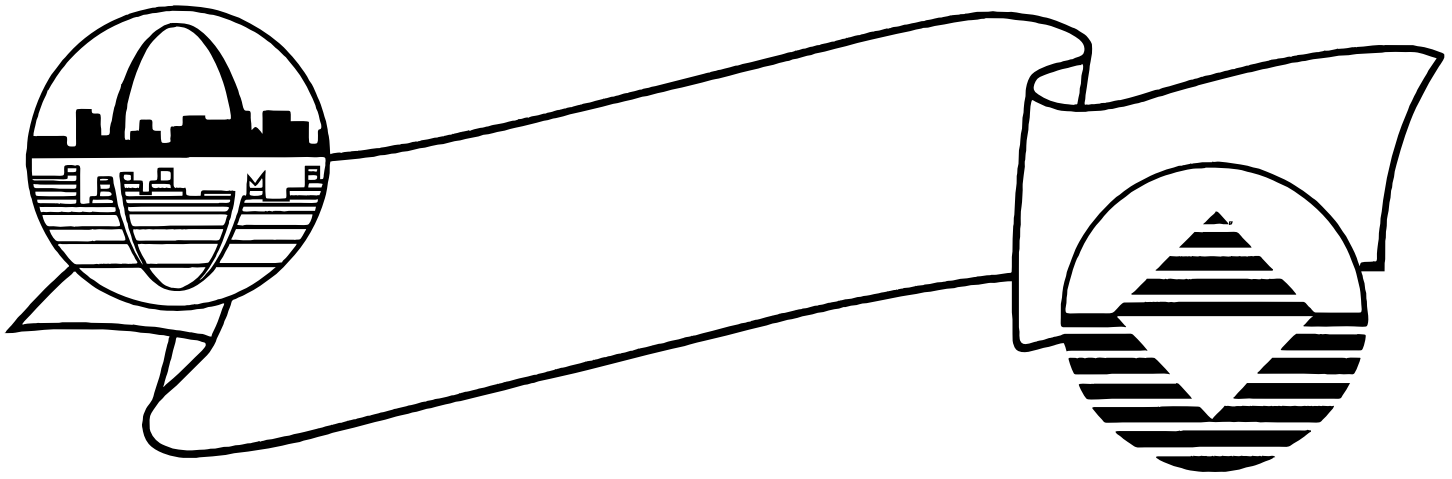
Member Name: _____

Non-Member Name: _____

Company Name: _____

Number of People: _____

Directions: Take Highway 40/64 to Kingshighway South. Take Kingshighway to Southwest. Turn right on Southwest. Proceed about one-half mile. Favazza's will be on the right at the corner of Southwest and Marconi. Parking lot available on Marconi.



BOARD OF DIRECTORS

Dennis Dubitsky, Chair

Husmann Corporation
Email: ddubitsky@husmann.com
314-298-6541, Fax: 314-298-6484

Joe Rubino, Vice Chair

Sverdrup Civil, Inc.
Email: rubinoj@sverdrup.com
314-770-4103, Fax: 314-770-5113

Susan Myers, Treasurer

Jacobs Engineering
Email: susan_myers@wssrap.com
636-441-8086, ext. 3113, Fax: 636-447-0803

Jennifer Markwardt, Secretary

Sigma Chemical Co.
Email: jmarkwardt@sial.com
314-286-7976, Fax: 314-286-7857

Tom Maddox, Director, YR-2

T.L. Maddox Cos.
Email: tmaddox@aol.com
636-394-8161, Fax: 636-394-6776

Michael Zlatic, Director, YR-2

St. Louis County DOH
Email: michael_zlatic@stlouisco.com
314-615-8910, Fax: 314-615-8951

Larry Waite, Director, YR-2

Mallinckrodt, Inc.
Email: Larry.waite@mkg.com
314-654-5616, Fax: 314-654-1251

Tom Blackwood, Director

Healthsites Associates
Email: Trblac@att.net
636-227-1534, Fax: 636-256-7027

Shyam Srinivas, Director

Sverdrup Civil, Inc.
Email: Srinivs@sverdrup.com
314-770-4956, Fax: 314-770-5113

Cynthia Pavelka, Past Chair

Ralston Purina
Email: cpavelka@purina.com
314-982-4716, Fax: 314-982-4199

MESSAGE FROM THE CHAIR

As we go into the new millennium, I am pleased to announce that “some things just don’t change”. For example, your Board was busy throughout the summer developing strategies for the St. Louis Section that will improve communication, increase membership value and provide services to meet the needs of our members. To that end, we have implemented a change in some of our monthly meetings. Throughout the year, you will have opportunities to attend ‘mini seminars’ at no additional fees beyond meeting costs. Attendees will have the option to stay after normal meeting times and interact with the presenter. You will be able to expand on the details of the topics in a more casual, personal setting. Look for these opportunities in the meeting announcements. This is just one change that we hope will demonstrate our commitment to our members.

As we go forward, I would like to acknowledge the work and contribution of the outgoing Officers and Board. It is because of your guidance and direction we have been able to continue with our growth and development as a Section. A special, well deserved, recognition and thank you goes to our immediate past Chair, Cynthia Pavelka. Through her tireless efforts and constant diligence, she led our Section to an extremely successful year. Cynthia set organization goals of membership benefits and education, public outreach and education and the quest for the Minasian Award. She achieved these objectives while financially strengthening our Section. Thank you, Cynthia.

Our Section has always believed that St. Louis has many members that exemplify the values and have achieved the objectives set forth in the vision of our organization. So it came as no surprise this past year when the National A&WMA conferred the status of *Fellow Member* on our very own, Dr. Thomas Blackwood.

As an active member for over 25 years, Tom has served on and chaired numerous committees, worked as session arranger for annual meetings and, as you know, served as Vice Chairman at the 1999 Annual Meeting in St. Louis. Tom continues his active role in A&WMA by participating on our Section Board as a Director. Congratulations Tom, and thanks for your continued interest and valued participation.

And, it wouldn’t be the beginning of our Section year without a “warning” for membership participation. Be careful when you are called to lend a hand on a committee. You just may find you get more out of participating than you put into it! The value and net worth of the St. Louis Section of the A&WMA is US.

Looking forward to a successful year.

Dennis

SPECIAL THANKS TO OUR SPONSORS

The Greater St. Louis Section would like to thank the sponsors of our April and May 2000 meetings. Sverdrup Civil, Inc. sponsored our April meeting and Burns & McDonnell Waste Consultants sponsored our May meeting. The support provided by these firms is a clear example of their continued dedication to furthering the environmental profession. If your company is interested in becoming a sponsor or you would like to find out the advantages of being a sponsor, please contact Susan Myers for more information.

OCTOBER 2000 MEETING PREVIEW

USEPA Region 7 is preparing to undertake a long-term program to assess hazardous air pollutants present in the ambient air in an area encompassing two zip codes in South St. Louis. The program is known as the St. Louis Community Air Project (CAP). EPA selected this area to study because of its combination of high residential population density, high levels of air emissions from mobile sources, and high levels of air emissions from stationary sources. The primary goal of the CAP is to include community members and stakeholders in a process to determine the levels of hazardous air pollutants in the project area, determine the general risk from these pollutants, and if the levels exceed acceptable health standards, attempt to reduce the pollutants to levels acceptable to the community.

The CAP is an outgrowth of EPA's Community-Based Environmental Protection Process, which seeks to bring people who live or work in a community together to (1) identify environmental concerns at the neighborhood level; (2) establish priorities among the various participants and governmental agencies; and (3) assist residents and partners in resolving environmental issues that will improve the quality of life in their neighborhoods.

At our October lunch meeting, David Doyle of EPA Region 7 will provide an introduction to the St. Louis Community Air Project, and present overviews of the ambient air monitoring, dispersion modeling, air quality analysis, and community involvement segments of the project.

David Doyle is an Environmental Engineer with the Air, RCRA and Toxics Division of the U.S. Environmental Protection Agency (EPA) regional office in Kansas City, Kansas. David has worked for EPA for over 24 years. His assignments have included EPA's water program (NPDES and construction grants), air planning, Superfund and RCRA enforcement programs. For the last five years, he has focused his efforts on EPA's Community-Based Environmental Protection (CBEP) program activities in St. Louis, Missouri and Omaha, Nebraska. David has a Bachelor of Science degree in Environmental Engineering from Syracuse University and a Master of Science in Environmental Health Engineering from the University of Kansas.

Metro East News

Lewis & Clark Community College in Godfrey, Illinois (just north of Alton) is tentatively planning to host a two-day environmental conference in March 2000. A&WMA St. Louis Section Directors Tom Maddox and Larry Waite are members of the Steering Committee for the conference. Please contact Tom (636-394-8161) or Larry (314-654-5616) if you're interested in learning more or want to become involved.

Wanted: Technical Articles

Have you been working on an interesting environmental project or have some important research you would like to share with our local community? Would you like to demonstrate your area of expertise to other environmental professionals in the private sector or government? If so, consider writing an article for The Greater St. Louis Section's next newsletter. There are two more scheduled for this year (January and April) and we encourage all members to publish their latest findings. If you are interested, please contact Joe Rubino at 314/770-4103 or rubinoj@sverdrup.com. We look forward to hearing from you.

DEVELOPING A SUCCESSFUL CAM PLAN

by Julie Summers and Joe Rubino

Sverdrup Civil, Inc.

The United States Environmental Protection Agency promulgated the Compliance Assurance Monitoring (CAM) Rule on November 21, 1997. Even though this rule has been in effect for more than two years, most industrial facilities will not have to submit a plan until renewal of their initial Title V operating permit. Depending on the number of affected sources your facility has, it may be a good idea to start thinking about the components of your CAM plan. Early planning will make compliance with this rule a smooth transition rather than a burden on both plant management and equipment operators.

For purposes of a brief review, the CAM rule applies to each pollutant-specific emission unit (PSEU) which meets a three-part test. The PSEU must be subject to an emission limitation or standard; use a control device to achieve compliance; and, have pre-control emissions that exceed or are equivalent to the major source threshold under Title V regulations. Emission units which are subject to New Source Performance Standards or National Emission Standards for Hazardous Air Pollutants which are promulgated after 11/15/90, are exempt from the CAM rule since those standards have been and will be designed with monitoring procedures that provide a reasonable assurance of compliance.

The CAM rule requires facilities to maintain their control devices at levels that assure compliance. Flexibility has been built into the rule by allowing facilities to design CAM plans based on current requirements and operating practices. The rule also requires facilities to correct control device performance problems as expeditiously as possible. A CAM Plan must include at least two, and potentially three criteria elements. These elements include general criteria, such as performance indicators to be monitored and associated ranges; performance criteria, which includes data validation, QA/QC procedures, and monitoring frequency; and special criteria for those units employing continuous monitoring equipment such as CEMS (continuous emission), COMS (continuous opacity), and PEMS (predictive emission).

General criteria to be included in the plan can be work practice activities, such as records of solvent usage or recorded findings during maintenance activities; measured or predicted emission levels; control device operating parameters; or records of the VOC content of a coating material. Ranges required to be included may be the upper and lower pressure drop across a baghouse/cyclone or incinerator operating temperatures. If applicable, different ranges should be provided for different process loads.

Performance criteria provide information on how general criteria information will be collected while reasonably ensuring compliance with applicable emission limits. Location, minimum accuracy thresholds, installation, calibration, and operating requirements of the monitors are examples of performance criteria. QA/QC procedures are also included under performance criteria. These procedures should specify when routine checks or routine maintenance of monitoring equipment should be performed, and calibration frequency of monitoring equipment. The frequency of data collection, averaging periods, and data collection procedures are also required to be defined.

Special criteria may be required in the plan for sources already required to have a CEMS, COMS, or PEMS. For example, indicator ranges do not have to be specified for CEMS and PEMS that provide data in terms of the applicable standard because the level of the standard is the level at which an excess emission occurs. However when a COMS is used to monitor opacity as an indicator of compliance with a particulate emission standard, the source may choose a specified indicator range for PM that is different than the opacity limit. Another criteria specific to these monitoring systems is information on how the monitor is designed to allow for reporting of exceedances.

EPA has developed guidance for analyzing the selection of a monitoring approach to comply with CAM requirements. The first step in the analysis is to identify whether the affected source is currently being monitored. If the source is being monitored, then the next step is to summarize those procedures and determine if they meet CAM criteria. If the current monitoring does satisfy CAM, then they may be incorporated into the CAM plan. However, if it is determined that existing monitoring procedures do not meet the requirements of CAM, then the existing procedures must be modified. In a third scenario, if existing monitoring cannot be modified to meet CAM or if there is no monitoring being conducted on a source, then the most appropriate monitoring requirements must be identified. EPA has developed the Monitoring Approach Selection Process Worksheet, which is an evaluation tool that can be used to determine the most appropriate monitoring requirements by considering and rating several factors. These factors include frequency of monitoring, level of confidence with the monitoring approach, equipment needs, and costs associated with the monitoring approach. Once the most reasonable monitoring approach is identified, then it should be summarized and included in the CAM Plan.

CAM Illustration

EPA has provided illustrations of different types of monitoring

that may be used with emission control methods to provide reasonable assurance of compliance with emission limitations. These illustrations, including monitoring approach descriptions, are located in Appendix B of the CAM Technical Guidance Document. The extensive list of control devices included in the illustrations are fabric filters, wet and dry electrostatic precipitators, wet scrubbers, thermal oxidizers, catalytic oxidizers, flares, condensers, electrified filter beds, carbon adsorbers, cyclones, and selective catalytic reduction. The type of control technology, pollutants controlled, and examples of process/emission units are included to ensure the correct application of the illustrations. The monitoring approach description includes the indicators monitored, rationale for the monitoring approach, monitoring location, and analytical devices required. Information is also provided on data acquisition and measurement system operation, and specific QA/QC procedures.

An example of a CAM illustration is for an industrial process vent or fuel combustion unit which uses a baghouse to control particulate matter and toxic heavy metals. The emission unit is subject to statewide opacity limit. The monitoring approach used in this example is to demonstrate proper operation of both process and control equipment through monitoring of

visible emissions (VE). The parameter being monitored is opacity or VE. The rationale for monitoring VE is that changes in VE are indicative of process changes, changes in baghouse efficiency, or leaks. The monitoring location is as required by Method 9 or Method 22 and the analytical devices required are a trained observer for Method 9 or a no visible emission technique for Method 22. Measurements will be taken daily or as weather permits depending on the measurement method, and will be reported in percent opacity or visible/no visible emissions. The results will be recorded on appropriate forms and logged into a binder or electronic database. Specific QA/QC procedures include initial training of observer per Method 9 or Method 22 and semiannual refresher for Method 9.

The details which need to be included in the CAM plan for existing, controlled emission units having established monitoring systems may not be difficult to compile. However, large industrial source complexes such as a chemical plant or oil refinery may need significant time to develop a facility-wide CAM plan due to the sheer volume of sources. In some cases, monitoring approaches may have to be researched from the standpoint of cost and manpower. In those cases, getting a jump on compliance is strongly recommended.

INTERNATIONAL NEWS

by Cynthia Pavelka

Representing the Section at the Annual Convention in Salt Lake City this year, I heard both good and bad news regarding our Association's financial status. The bad news was the Association suffered another financial loss for this past fiscal year. The good news is the Association is off to a great start this fiscal year by having a successful Annual Convention in Salt Lake City. Richard (Dick) Scherr started as the new Executive Director in February. He immediately implemented cost-cutting measures to minimize losses for the year and to ensure a successful annual meeting. The Executive Director runs the Home Office, located in Pittsburgh, and reports directly to the Association's Board. Dick Scherr is very familiar with the Association by being a member for over 20 years, past president and board member. Mr. Scherr has a great resume that includes financially turning around environmental service companies and will use this experience to do the same for our Association.

For this fiscal year that ended April 30, the Association lost approximately \$485,000. Mr. Scherr and the Home Office were able to start the turn around for this fiscal year by cutting expenses at the Annual Conference to result in a profit of \$464,000, which is \$72,000 above budget. The Annual Conference typically accounts for 40% of the Association's revenue. Mr. Scherr is making other positive changes at the Home Office. One change that has led to a lot of discussion among the members is renewing the Association's office lease.

Although the Association's current office lease in Pittsburgh expires in 2003, the Board has voted to renew the lease for an additional five years, because of the immediate financial advantages to renegotiating it now. The lease extension includes a more favorable rental rate for a reduced amount of space compared to the alternative of moving to another location at the termination of the lease. This offer gives a positive net present value over paying the current lease and moving to less expensive space in 2003. In return for the renegotiation, and due to the current financial situation of the Association, the landlord is asking for a \$300,000 guarantee at the time of the execution of the amended lease, which will be on or about January 1, 2001. One potential method of providing this guarantee would be for the Sections and

Chapters to issue irrevocable letters of credit - for a five year term - to the Association in the aggregate sum of \$300,000. As of August 18, 10 Sections or Chapters had pledged \$56,000, which includes a \$5,000 pledge by our Section. The funds deposited by the Section will earn interest for the benefit of the Section for the duration of the commitment.

What can you do to help your Association stay financially sound? Pay your dues in a timely matter which can now be done through the website. Recruit a new member. Provide direct input to Dick Scherr, dscherr@awma.org, or our Board Liason - Joe Martone, martonej@battelle.org (435-831-7010). For additional international news check the website, awma.org, or contact me at 314-982-4716.

MINASIAN AWARD UPDATE

The St. Louis Section will again be applying for the **Minasian Award for Outstanding Sections** with even more enthusiasm. We are currently evaluating our past performance (see summary chart below) and 2000-2001 goals.

As a reminder, the Minasian Award (named in honor of George T. Minasian, Mid-Atlantic States Section, First Chair of Sections Council) is established to be awarded at the Associations' Annual Meeting for the section having the most outstanding record of activity and accomplishment. Applications are submitted for the twelve month period (May to April) ending in the calendar year preceding the Annual Meeting.

There are four categories where general membership can help our Section obtain this award. Those categories are:

- Articles by members published in the Journal and/or EM (3 points per article; 6 max points), or in the A&WMA News (1 point per article; max 3 points)
- Members who achieve the QEP Certification during the year. Home Office will verify this information with IPEP (1 point for each new QEP, max 10 points).
- Members who receive one of the Associations' annual awards or were elevated to Fellow Member status (1 point for each award).
- Total growth in membership for the section during the fiscal year (1 point for each 1% increase, max of 25 points).

| Topics | Max Points | 1999-2000 Points | 2000-2001 Goals |
|---------------------------------------|------------|------------------|-----------------|
| Host annual meeting | 10 | 10 | 0 |
| Association specialty conference | 12 | 0 | 6 |
| Local membership meetings | 12 | 8 | 9 |
| Education courses | 10 | 8 | 9 |
| EM or journal articles | 9 | 6 | 6 |
| QEP certification | 10 | 0 | 5 |
| Fellow member | unlimited | 1 | 5 |
| Growth/membership | 25 | 7 | 15 |
| Student chapter | 10 | 0 | 2 |
| Annual report/student chapter | 10 | 0 | 2 |
| Activity/increase member satisfaction | 5 | 5 | 5 |
| Newsletters | 10 | 9 | 9 |
| Board of Directors | 3 | 0 | 0 |
| Executive Committee | 5 | 0 | 0 |
| Serve on Tech/Educ/S&C Councils/Comm | 10 | 0 | 0 |
| Association leadership event | 3 | 0 | 0 |
| Pittsburgh officer training | 5 | 5 | 5 |
| Attend membership committee meeting | 5 | 0 | 5 |
| S&C council meeting | 5 | 5 | 5 |
| Officer training | 5 | 5 | 5 |
| Scholarships | 10 | 3 | 3 |
| ERG teacher training | 10 | 3 | 3 |
| Totals | 184 | 75 | 99 |

As chairman of the "Minasian Award" committee, I am asking if you have any interest or wish to obtain more information on this subject, please call me at 636-394-8161.

| 1999-2000 Minasian Award Results | Total Points |
|----------------------------------|--------------|
| Southwest Section | 98 |
| Allegheny Mountain Section | 94 |
| Upper Midwest Section | 92 |
| Louisiana Section | 83 |
| Greater St. Louis Section | 77 |
| Florida Section | 76 |
| West Coast Section | 56 |
| Lake Michigan States Section | 47 |

By Jennifer Markwardt, Secretary

Hope everyone had a great summer. The A&WMA Greater St. Louis Section has been idle most of the summer of 2000 after all the excitement last summer (annual meeting, etc.). The Board, however, has been busy making plans so the 2000/2001 year will be a great success. Since the April Newsletter, I have several important items to report.

Summary of Meeting Minutes

The Section held its last monthly meeting of the 1999/2000 year on May 23, 2000 at Ramon's Jalapeno Grill and Cantina in Clayton. No speaker was featured, but we enjoyed a fabulous taco/burrito buffet. Annual elections of officers and board members were also held at the May meeting. The 2000/2001 fiscal year elected officers are: Chair – Dennis Dubitsky; Vice Chair – Joe Rubino; Treasurer – Susan Myers and Secretary – Jennifer Markwardt. New directors elected to the board include Tom Blackwood and Shyam Srinivas.

The Board of Directors met twice over the summer to plan for the 00/01 year. The treasurer's report identified that the Section, as of July 2000, has a balance of approximately \$22,000 with one outstanding debt. The Board voted on August 11 to extend a letter of credit in the amount of \$5,000 to assist International in their efforts to renegotiate their lease at a better rate for the next few years. The money will be placed in an interest-bearing CD and International will be able to use the funds for a five year period. See the International News feature in this newsletter for more information.

The Greater St. Louis Section finished 5th among contenders for the Minasian Award at the Annual Meeting in Salt Lake City. This award is given to the top three performing Sections for outstanding achievement in serving the mission and the membership of the Association. The competition is based on points earned for various section and Association activities. We put forth a valiant effort as host of the 1999 Annual Meeting, but fell a little short. See the article contained in this newsletter for more details.

Everyone should have received invoices for the 2000/2001 fiscal year around the middle of September. Although it may seem like you just received an invoice from us earlier this year, those invoices were for the 1999/2000 fiscal year and were simply sent out late. Please return your invoices and payments as soon as possible if you have not already. Some of you may have submitted your dues to the International A&WMA. However, due to the lag which occurs from the time International A&WMA receives your payment and the St. Louis Section is reimbursed, your statement may not reflect the payment. In those cases, please mail your invoice to the address shown, indicating in a brief note that the payment has been made. We appreciate your patience and apologize for any inconvenience.

Other Notes

The Section would like to encourage all members receiving our mailings via "snail mail" to consider switching to receive all correspondence via electronic means. We have a web site and mailing list for information to be distributed to the membership electronically. Please sign up for electronic notification only via the web site (www.awma.saint-louis.mo.us) or by contacting me via e-mail (jennifer@turco.com). Reducing the amount of mail we have to send out every month cuts Section costs considerably --and is environmentally friendly! Please consider e-only. Thanks.

This writing is only a summary of the Board Meeting Minutes. Please contact Jennifer Markwardt, Secretary, for a copy of the meeting minutes.

ARE YOU MOVING, OR HAVE A CHANGE OF ADDRESS?

Name: _____

Title: _____

Company: _____

Address: _____

Phone Number: _____

Fax Number: _____

Email: _____

Contact: Jennifer Markwardt

Email:

Phone Number: 314-286-7976

Fax Number: 314-286-7857

A&WMA Greater St. Louis Section
c/o Engineers Club of St. Louis
4359 Lindell Boulevard
St. Louis, MO 63108

jennifer@turco.com

