



Local Section News

President's Page

Out-Going President –Bonnie Jenkins

I would like to take this time to thank all the officers and board members for their assistance through the past year. I hope we provided members with worthwhile and informative meeting, topics and tours for the year. We did meet many of the goals we set. I wish Jim well in his upcoming year as president. I want to thank all the members for your participation in making our local section successful and I hope to see you in New Orleans. ❖

Incoming President – Jim Tillery

I would like to thank Bonnie Jenkins for her dedication to the local section and all of the hard work she performed to make last year successful. I would also like to extend best wishes to Bonnie and her husband in the upcoming birth of their first child. Thanks are also extended thanks to Regi Jennings in his service to the local section as Secretary/Treasure over the past two years. We also wish Regi and his family well, as he will be leaving Alabama to accept a new position in Texas. Finally, special thanks to Brent Bailey and John Horwarth for their service on the board during the past year.

continued on page 2

INSIDE THIS ISSUE

- 1 Presidents Letter,
- 1 Local Section Meetings
- 2 News from the Board
- 3 Current Officers & Financial Report
- 4 2001 Calendar

March Meeting

“Strange and Unusual Stories” Nikki’s West, Birmingham, AL

On March 15 , fellow Industrial Hygienists shared their strangest or most Unusual IH Stories. Prizes were given to all who told stories. The things industrial hygienists encounter never ceases to amaze us .

We also conducted our 2001-2002 Officer Elections. Jim Tillery moves up to President Elect. Blake Knight was voted in as President Elect, John Horwarth as Secretary, Treasurer and Dr. Martin Harper as new Board Member. Other members that remain on the Board are Judy McBride and Joe Siegel Congratulations to our new officers. ❖

April Meeting

Student Presentations

Univ. of North Alabama, Florence, AL

We had three students present projects at our meeting, along with a short presentation from AIHA National.

Brain Muller, UAB Student, Dr. Martin Harper – Advisor

In 1998 the American Conference for Governmental Industrial Hygienists (ACGIH) proposed size selective sampling for wood dust based on the inhalable fraction. The proposed threshold limit values (TLVs) require the use of a sampler designed to meet the inhalable convention. The IOM and Button samplers have shown good agreement with the inhalable convention under controlled conditions. However, the IOM has been shown to collect projectile particles in wood working environments. The Button sampler has not been previously evaluated under wood working conditions. An alternative inhalable sampler that could exclude particles that are outside of the inhalable convention (>100 µm) is desirable in the wood products industries. This study compared gravimetric analyses (National Institute of Occupational Safety and Health Method 0500) of side-by-side personal samples using the Button, IOM, and 37-mm closed face cassette (CFC) under wood working conditions.

continued on page 3

I am looking forward to serving as your president for the upcoming year. A board meeting has been set to plan out the events for the next year, and as soon as they are finalized they will be added to the web page. If you have any suggestions, please let us know. – Jim . ❖

News from the Board

By-Law Amendment

In March you should have received a voting ballot to amend our By-Laws.

Proposed Amendment to Bylaws

Article III - Membership

Section 4. Student Membership

Students may become members of the American Industrial Hygiene Association -Alabama Local Section upon payment of the local section dues. They shall be afforded all privileges of members of the American Industrial Hygiene Association of the Alabama section.

As for non-member students, the section will provide information regarding meetings and other Section activities to the faculty at universities within the areas that have industrial hygiene programs. Students who wish to participate in activities may do so without joining the section. The section will subsidize student meals.

The results of the vote are 37 in favor and 2 against. The By-Laws will be amended to reflect the vote. ❖

Local Section Meeting Attendance

How well are we doing in setting up meetings and providing our membership with beneficial information ? Below part one of a two-part segment. It is a review of our meeting attendance for the past two years. This will be followed up with a short survey to members over the summer. As a board we want to ensure we meet the needs of our local section membership.

Type Of Meetings

Below is the average attendance for each type of meeting for the past two years (1999-2000 and 2000-2001)

	Members	Students	Total
Plant Tour	21	3	24
Speaker/Dinner	25	4	29
Student Presentations	28	9	37

Our student presentations drew the highest attendance, followed by speaker/dinner and plant tours. Some meetings may not have been attended well due to late notice, location or date due to students being out of school.

Year	Average Attendance
1999-2000	28
2000-2001	29

As you can see our average attendance went up slightly. This is comparable to other local sections with a membership of less than 100.

Watch for a survey this summer and give us your valuable input and suggestions.

Ergonomics Standard

Many of you may have started working on your Ergonomics Program at the first of the year. As you know the Ergonomics Standard was repealed. There are hopes in Congress to pass a bill required the Department of Labor to pass a new standard with two years. We see what happens. In the mean time, it is prudent to continue to address ergonomic concerns.

Recordkeeping, Needle Stick and Steel Erection on held for 60 days

Some of you may have been affected by the 60-day stay on these rules. See the OSHA home page (www.osha.gov) for updates. The needle stick rule continued forward. The steel Erection and Recordkeeping as far as I can tell are still on hold. The Recordkeeping rule may not pass this year, however OSHA hopes to get it through.

Articles of the Newsletter

If you would like to submit or write an article for our newsletter, please contact Bonnie Jenkins at her bonnie.jenkins@appl.ge.com.

2001-02 OFFICERS

& BOARD MEMBERS

President – Jim Tillery

AL Power Co, 4250 Porter Rd SW, Quinton, AL 35130-9471

Phone: 205-488-2062, Email: jctiller@southernco.com

President-Elect –Blake Knight

AL Power Co, PO Box 2641, Birmingham, AL 35291-0234

Phone: 205-257-2009, Email: ybknight@southernco.com

Secretary/Treasurer – John Horwarth

113 Sweet Gum Lane, Chelsea, AL 35043

Phone: 205-870-5563, Email: jhorwarth@tmgroup.com

Board Member – Judy McBride

Phone: 205-934-2487, Email: jmcbride@uab.edu

Board Member – Joe Siegel

Email: joesiegel@aol.com

Board Member – Dr. Martin Harper

Email: mharper@uab.edu

Board Member - Past - President - Bonnie Jenkins

Email: bonnie.jenkins@appl.ge.com

Financial News

THE SECTION ACCOUNT BALANCE AS OF MAY 4, 2001 IS \$1425.58.

MEMBERSHIP DUES

THAT TIME OF YEAR AGAIN !

Dues for the year are \$10. If you have not paid your dues, please mail a check to the following address.

Attn: John Horwarth, 113 Sweet Gum Lane, Chelsea, AL 35043.

Dues are used for speakers, for subsidizing student meals, donation to the Vernon Rose Endowment Fund, newsletter and mailing costs. ❖

CHECK OUT OUR WEB PAGE

www.aiha.org/sections/websect.html

Contact Bonnie Jenkins to add items, such as job openings, meeting notices, etc. ❖

A total of 51 good sample pairs were collected from three wood products industries involved in the manufacturing of cabinets, furniture, and shutters. Paired t-tests were run on each sample pair using Statistical Package for the Social Sciences (SPSS) version 10. Results collected have indicated that the IOM and the CFC measured statistically different concentrations ($p < 0.0005$, $n = 16$). The IOM and Button measured statistically different concentrations ($p = 0.020$, $n = 12$). The Button and CFC did not measure statistically different concentrations of wood dust ($p = 0.098$, $n = 23$). This data suggests a relationship between the larger inlet size of the IOM to the collection of more and/or larger wood dust particles compared to the other samplers tested. Additionally, this data suggests that the CFC and Button samplers do not sample significantly different concentrations of wood dust.

Lynn Walters, UAB Student, - R. K. Oestenstad, Advisor **Determination of the Effect of Oil Mist Exposure on the Efficiencies of N, R, and P Series Electret Respirator Filters**

In previous studies it has been demonstrated that oil loading on fibrous filters decreases filter efficiency, and that efficiency decreases over time following loading. This study was designed to measure the effect of oil mist exposure on electret filter efficiency and the change of efficiency over time. The electret filter media evaluated were from the following types of filtering facepiece respirators: R95, N95, P95, N100, and P100.

Filter efficiency was tested with neutralized, 0.40 μm polystyrene latex beads generated from a Laskin-type nebulizer. A condensation nuclei counter was used to measure particle count before and after the filter. Pressure drop across the filters were also measured. All tests were performed at a continuous flow rate of 85L/min. Filters were tested at room conditions. Initial efficiency was measured on test and control filters. Test filters were then loaded with 200 mg of corn oil mist. Efficiency was then measured on all filters immediately after loading, and at four day intervals to 16 days post-loading.

Initial efficiencies for all control and test filters were found to be below the NIOSH criteria (i.e. 95% and 99.97%). Over time, all exposed filters except P95 had significant average mean efficiencies less than their control filters ($\alpha = .05$). Oil exposed N95 and R95 filters showed a significant decrease in efficiency ($\alpha = .05$), while efficiency for P95, N100 and P100 did not significantly change over time. Significant correlations were found between efficiency and post-filter aerosol concentration and pressure drop. There was a significant efficiency decrease for N95 and R95 filters, while the efficiency changes for the P95, N100, and P100 filters were non-significant. This would indicate that collection mechanisms other than electrostatic attraction were more effective in the other filters, or that fiber size and packing density were different.

CALENDAR OF EVENTS

Our 2001-2002 Calendar

September 13 Plant Tour

Topic: TBA

November 1 Dinner Meeting / Speaker

Topic: TBA

February 7 Plant Tour

Topic: TBA

March 14 Dinner Meeting, Birmingham, AL

Topic: "Strange/Unusual Stores" & Elections

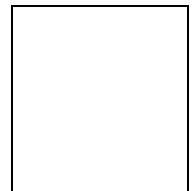
April 25 UNA, Florence, AL

Topic: Student Presentations

Amanda Creekmore, UNA Student, - Proposal for the study - Comparison of Methods for Personal Sampling of Inhalable and Total Iron- and Lead- Containing Aerosols in a Foundry Operation.

Several recent studies have compared worker personal exposures to total and inhalable metal aerosols in different industrial settings. These comparisons reflect the state of transition of the aerosol sampling technology following an international agreement that recommended that aerosol standards be based on particle size selecting sampling that accurately assesses the exposure hazard. The study described in this proposal is a continuation of a research initiated this year (2001) and currently under development at the University of North Alabama. The aim of this study is to compare a conventional method for sampling total aerosols (37-mm sampling cassette) and a method available for the sampling the inhalable particle mass fraction (IOM sampler). In this case, the comparison applies to the lead and iron content of these aerosols, which will be collected on workers performing typical foundry operations.

Bonnie Jenkins
GE Appliances
2328 Point Mallard Drive
Decatur, AL 35609



ADDRESS CORRECTION REQUESTED