100 YEARS
of Environmental Stewardship

1907 2007

AIR & WASTE MANAGEMENT
ASSOCIATION

A Partner in Your Success

www.awma.org

About A&WMA

- 100 years of environmental stewardship
- A global leader in environmental management
- A neutral forum for knowledge exchange and networking

History

For 100 years, A&WMA has played a vital and leading role on air quality and waste management issues for the public and professional communities. Since the earliest awareness of the burgeoning nuisance of smoke in the early 1900s, the growth of environmental consciousness and the Association's work have been closely tied.

History

As industrial cities grew, they saw the need to pass new coal-burning ordinances and require city smoke inspectors to be mechanical engineers. In order to share effective smoke-control strategies, many individuals who worked as these inspectors called for the formation of an association on an international scale.

“One of these days when the mischief is fully done, when our once pellucid and crystalline atmosphere is transformed into Chicago reek, and Pittsburgh smoke and London fog, men will begin to realize what they have lost, and will hold conventions, and pass resolutions, and enact laws, and spend great sums of money for the undoing of the mischief and the restoration of our atmosphere to its original state.”

Editorial, New York Tribune, May 1, 1899

1906-1910

Historical Highlights

1907 – Municipal smoke inspectors got together for the first time to discuss common issues. Formed International Association for the Prevention of Smoke

At the first meeting held in Milwaukee, WI, a resolution calls for the regulation of smoke by state legislation, rather than by municipal ordinances.

Historical Highlights

1909 – Figures quoted at the Association's annual meeting, in Syracuse, N.Y., estimate that smoke causes $6,000,000 of damage in the U.S.

1915 – Become the "Smoke Prevention Association of America"

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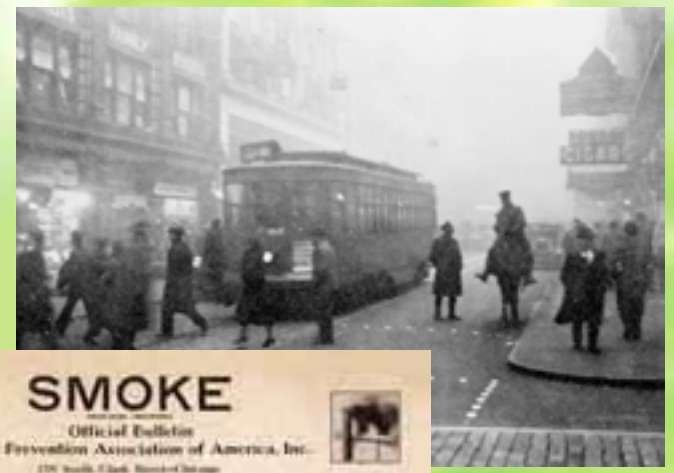
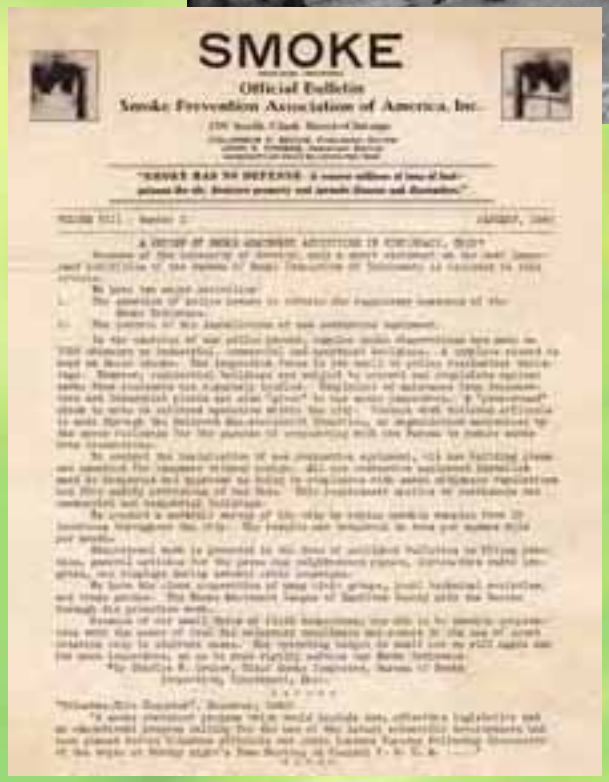




SMOKE

Official Bulletin

Smoke Prevention Association of America, Inc.

DON'T SAY IT, LADY —
WE'LL SAY IT FOR YOU ...
THERE OUGHTA BE A LAW!
Thanks to RUDOLF GOLLATZ,
239 S. FRONT ST, COPLAY, PA.
FAGALY & SHORTER
7-2
McCLURE NEWSPAPER SYNDICATE

Historical Highlights

1945 – The Association works with the U.S. Weather Bureau to participate in an extensive study aimed at the adoption of standard measurements on air pollution, as well as to determine the factors that affect the concentration and dispersal of atmospheric pollution.

1950 – Name change to “Air Pollution Control Association”

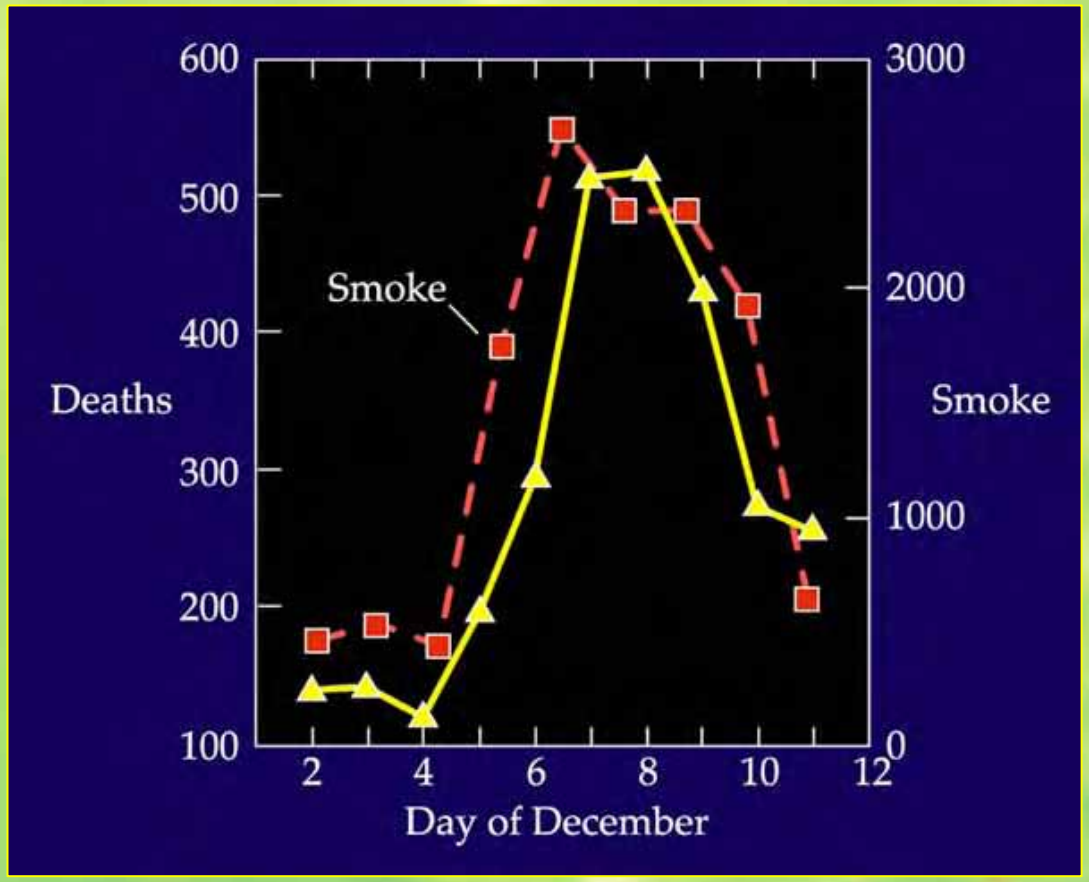
Welcome To Roanoke
Air Polution And Smoke
Prevention Assoc. Of America
We Knocked
The "L" out
of Pol ution

In 1943 L.A., an eye-burning ‘smog’ event heralded a new and growing form of air pollution in sunny, healthy southern California

In 1948, an episode in the small town (13,000) of Donora left 20 dead, 6000 sick

These widely reported developments made transformed air pollution into a national problem

1952 London


600
500
400
300
200
100
Deaths
3000
2000
1000
0
Smoke
Smoke
2
4
6
8
10
12
Day of December

Historical Highlights

1952 – July, the first edition of “Air Repair” is published (quarterly). In 1955, this became Journal of the Air Pollution Control Association (JAPCA)

1958 – The Association forms the first national air pollution advisory committee to the U.S. government with representatives of government, industry, and consulting.

1961 – The first regional A&WMA Sections are formed, including the Ontario Section and Cincinnati

FLAMMABLE
CUYAHOGA
RIVER

ONE OF A SERIES SHOWING DUCON COLLECTION UNITS IN ACTION

DUST RECOVERY and CONTROL

save a mountain of usable product fines

At normal production rate, this typical installation of the Ducon Cyclones and Centrifugal Wash Collector will pay for itself in short order. These special Ducon "package" units are trained to provide maximum recovery and dust control for Rotary Dryer Operations. Type LD and SD Cyclones recover, at high efficiencies, usable product from the exhaust gases in the dry state. One of several types of Ducon Washers, employed for final stack clean-up, remove the extreme fines and discharge clean gas to the atmosphere. Washing liquid can be recirculated to effect complete recovery of all material processed. Perhaps your dust collection problem has a parallel among the many we have already solved in the 20 years of our specialization.

Write for descriptive literature.

the name is ducon

THE **Ducon** COMPANY

147 EAST SECOND STREET, MINEOLA, N.Y. • Sales Representatives in Principal Cities

Designers and Manufacturers of Dust Control Equipment Exclusively

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CUPOLA FUMES [illegible]

ELECTRIC FURNACE FUMES [illegible]

CEMENT DUST [illegible]

GRINDING DUST. [illegible]

CARBON BLACK [illegible]

ASBESTOS DUST. [illegible]

INVESTIGATE ULTRA-FILTRATION

If you have a plant area that must be absolutely dust free, Wheelabrator's new Ultra-Filtration can be built into your plant's ventilation system.

Regardless of the size of your plant, the concentration of fumes, or the types of solids involved, Wheelabrator engineers can show you how the same or similar conditions have been overcome successfully and economically by one of the many types of Wheelabrator's wet or dry collection systems. Write today, giving details of your requirements.

Ask for Catalog No. 313-D

WHEELABRATOR
CORPORATION

330 South Byrkit Street **Mishawaka, Indiana**

Executive Offices: Scarborough Tower • Rockford

Historical Highlights

1970 – The Association unveils its first “specialty conference” in Toronto, Ontario, and more than 230 individuals attend to learn more about the impact of air pollution on vegetation.

1971 – Bylaw to allow all committees, including Technical Council to be open to all members. Prior to that, Technical Council was restricted to industry.

1988 – Reflecting the Association’s new vision and expanded focus on hazardous wastes, the name is changed to the Air & Waste Management Association.

False Creek Vancouver, B.C. Canada

1939

2000

GVRD

1925
1957
1998

1966: New York City buried under a sea of smog.

But not yet every where..

Future

I’m not going to go there---

keep in mind that past predictions have not always been great;

Lets start with a simple one:

Who Said:

640K ought to be enough for anybody. (1981)

Some others:

But what ... is it good for? (commenting on microchip: 1968)

There is no reason for any individual to have a computer in their home.

Who predicted?

But what ... is it good for? (commenting on microchip: 1968)

Engineer at the Advanced Computing Systems Division of IBM

There is no reason for any individual to have a computer in their home.

Ken Olson
President Digital Equipment Corp.

Some more predictions:

Everything that can be invented has been invented.

Inventions have long since reached their limit, and I see no hope for future improvements.

Surprise:

Everything that can be invented has been invented.
Charles H. Duell U.S. Commissioner for Patents
1899

Inventions have long since reached their limit, and I see no hope for future improvements.

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1899

Inventions have long since reached their limit, and I see no hope for future improvements.

Julius Frontenus
10 A.D.

And a few more:

This `telephone' has too many shortcomings to be seriously considered as means of communication. The device is inherently of no value to us.

Western Union internal memo, 1876.

Even considering the improvements possible...the gas turbine could hardly be considered a feasible application to airplanes because of the difficulties of complying with the stringent weight requirements.

US National Academy Of Science
1940

About A&WMA

A&WMA promotes the effectiveness of organizations and individuals to make critical decisions that benefit society and enhances environmental knowledge and expertise by providing a neutral forum for technology exchange, professional development, networking, and outreach.

About A&WMA

- Nearly 9000 members in 65 countries
- Broad range of members:
  - Government
  - Industry
  - Academia
  - Consulting

Today's A&WMA

- Information to advance your understanding of environmental issues
- Networking to expand your opportunities
- Professional development to enhance your career

SO WHY BE A MEMBER?

- Direct – What we give you!
  - Information & Knowledge to advance your understanding of environmental issues and your career
- In-Direct:
  - Networking to expand your opportunities
- Obligation –
  - Development of the profession

Direct Membership Benefits

- Access to timely professional, scientific, and technical information through A&WMA's publications
- Members-only discounts on conferences, workshops, and courses
- Discounts on books, conference proceedings, and other educational materials
- Access to online Job Board, membership directory, and more

Publications

- Keep you abreast of the most current environmental management news and scientific research
- Two monthly magazines, in print and online
  - Journal of the Air & Waste Management Association
  - EM

Journal of the Air & Waste Management Association

- Latest original research papers from experts in pollution control and waste management
- Published since 1951
- One of the longest-running, most respected peer-reviewed environmental publications in the world

EM Magazine

- For environmental managers and other professionals
- Thought-provoking articles on topical issues
- Regular columns written by industry experts

Online Library

The Online Library provides a wealth of technical environmental education material, from books and CDs to downloadable PDF articles. It is a substantial and growing resource to environmental professionals around the world.

Covers all of Journal back to 1954

Conferences

- Annual Conference & Exhibition
- Specialty Conferences
- Workshops
- Audio + Web Conferences

Annual Conference & Exhibition

- One of the world's largest environmental management conferences, attracting thousands of environmental professionals
- 150 technical sessions on a range of issues, from air quality to integrated waste management strategies
- Exhibition is a dynamic showcase of environmental products, technology, and services
- Social programs and networking events

Specialty Conferences

- First held in 1970
- 250+ conferences held throughout the world
- Address timely, highly relevant issues such as:
  - Diesel technology
  - Climate change
  - Utility energy generation

Education

- Continuing education courses
- Online education courses
- Classroom education materials
- Scholarships

Continuing Education Courses

- Live professional development training by national experts
- Courses at conferences and by appointment
- Support the QEP and CHMM professional certifications
- Continuing education credit for a number of disciplines

Classroom Education Materials

Environmental Education Resource Guides (EERGs)

- A&WMA's award-winning teacher lesson plans
- Address ozone, acid rain, indoor air quality, and other important issues
- Geared toward students from kindergarten through grade 12
- Include supporting classroom materials for students
- Available on CD

E-Learning Center

- A&WMA brings the course to you
- Learn from the convenience of your home or office
- Stay abreast of rules, regulations, and research
- Eliminate travel costs associated with traditional face-to-face courses

Scholarships

- Recognize the most promising environmental students
- Assist graduate students in air quality, waste management, and environmental policy or law
- Awarded every year for more than two decades
- More than 80 scholarships totaling more than $300,000

Networking and the Environmental Community

- Less tangible, but for many the MOST important aspect
- Connections in your field
- Regulatory and industry contacts
- A must for ALL professionals

Getting Involved

A&WMA's Three Council's Provide Ample Opportunities to Get Involved

Education Council

- Input into the Association's products and services
- Ensure educational and professional development needs are met

Technical Council

- Development of the technical programs
  - Annual Conference & Exhibition
  - Specialty Conferences
  - Workshops
- Peer-review process for technical articles and publications

Getting Involved

A&WMA's Three Council's Provide Ample Opportunities to Get Involved

Sections & Chapters Council

- Members meetings in your region to discuss common problems and solutions
- A&WMA's Participating:
  - 32 Regional Sections
  - 68 Local Chapters
  - 50 Student Chapters

Education Council

Developing Environmental Educational Resources

- Variety of products and services
- Professional development and educational needs of:
  - Environmental professionals
  - University students
  - General public
- Education Council members
  - Input into developing products and services
  - Key role in delivery and dissemination

Technical Council

Generating Programs

- Responsible for developing the technical programs for:
  - Annual Conference & Exhibition
  - Specialty Conferences
  - Workshops
- Provides peer review for technical articles and publications

Technical Council

Air Group

- Meteorology
- Particulate Matter
- Indoor Air Quality
- Visibility
- Emission Factors & Inventories

Technical Council

Environmental Management Group

- Health Effects and Exposure
- Risk Assessment / Management
- Power Generation
- Homeland & Environmental Security
- Federal Facilities
- Climate Change & Sustainability

Technical Council

Waste Group

- Integrated Management
- Municipal Waste Treatment
- Medical Waste Treatment
- Management & Remediation of Hazardous, Radioactive and Mixed Waste
- Site Characterization & Investigation

Sections and Chapters Council

Involvement at the Local Level

A&WMA has…

- 32 regional sections
- 68 local chapters
- 50 student chapters

Sections and Chapter Events

- Members meet frequently with colleagues

Involvement With Your Section & Chapter

- Cultivating closer professional relationships among members
- Promoting greater environmental awareness
- Participating in public outreach
- Hosting breakfast, lunch, and dinner meetings
- Hosting specialty conferences and workshops
- Publishing newsletters
- Providing funds for scholarships

Involvement at the Student Level

Student chapters are supported within the Section and Chapter framework to foster the needs and interests of students and to encourage their continued professional development after graduation.

Student Membership – Jumpstart Your Career

- Job openings through the Online Job Board
- Networking opportunities
- Scholarships
- Student chapters

Student Membership – Programs Designed for Students at the Annual Conference

- Student Career Tutorial
- Student paper/poster contest with cash prizes
- Student technical tours
- Student social
- Career center

Continue to Grow as a Young Environmental Professional

- Mentoring from the world's leading environmental experts
- Networking with managers, leaders in industry, government, and academia
- Discounts on materials and professional certification courses
- Access to timely environmental topics and current research

Your Professional Obligation

- Further the profession
- Train the future environmental professionals
- Give back to your profession!

Maximize Your Opportunities in your Environmental Career

- Access vital information
- Network with other professionals
- Tap into a wealth of professional development opportunities

Become a Member Today!

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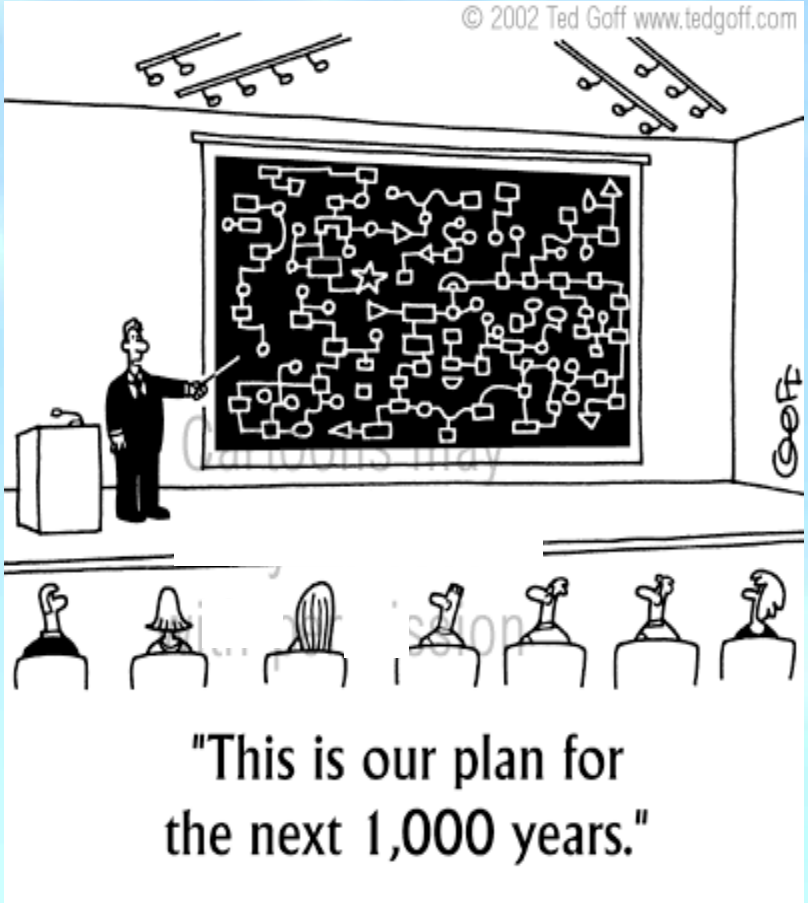
Overview

- Few quick general comments
- Survey discussion and results
- Major issues
- Tomorrow..
  - some A&WMA History and where are we going?
  - And my appeal to “be a member”



Overview

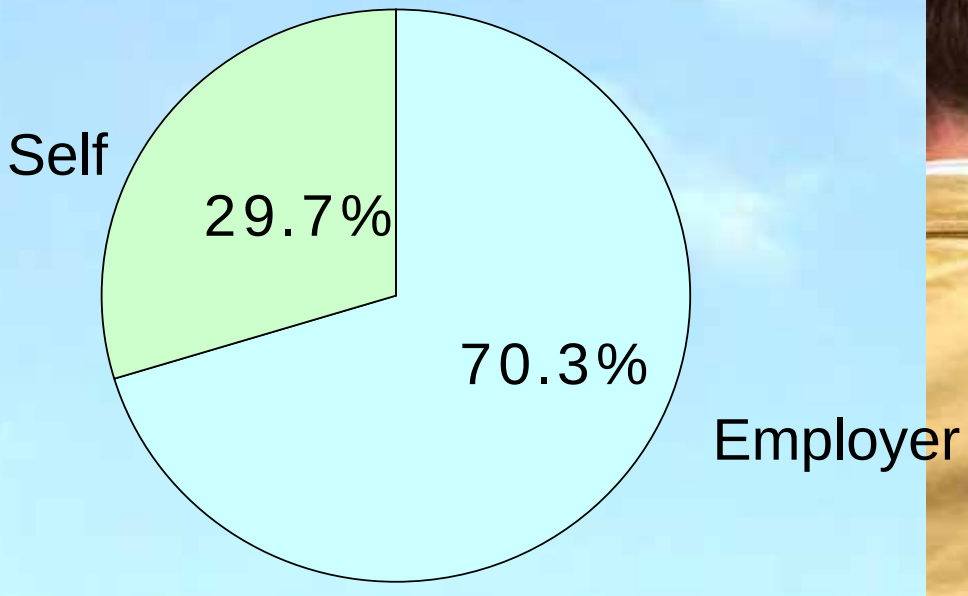
- Pittsburgh ACE this year was excellent – attendance, papers, exhibits way up over previous years; with some fascinating key notes:
  - Charles Bunch, Chairman and CEO of PPG Industries,
  - former administrator of the EPA and governor of NJ, Christine Todd Whitman, and
  - John Bachmann, Former Associate Director for Science/Policy and New Programs, Office of Air Quality Planning and Standards, at the US EPA.
- Financially very stable – achieved our reserve fund goal
- Still some over-riding issues of membership levelling off (we hope!)
- Less volunteer time; less commitment to face-to-face conferences

WE ARE PLANNING FOR THE FUTURE, NOT JUST SURVIVAL!

Survey

- 1000 professionals
- New and loyal
- “Old” and loyal
- New and lapsed (disloyal?)
- “Old” and lapsed

Who Pays for Membership?



Did You Join as a Result of...

Conference/Event	43%
Just Joined	31%
Colleague Recommendation	23%

Varies with the categories…

for example, colleague recommendation: for “active”, both loyal and new, is about double “new lapsed”;

When Asked What Could be Improved or Added?

- Over 70% indicated nothing we could add.
- Over 92% indicated nothing that we should take away

Which of the following age ranges are you within?

	Total of all Segments		Active/Loyal		Lapsed/Loyal		Active/New		Lapsed/New	
	# of Responses	% of Total	# of Responses	% of Total	# of Responses		# of Responses	% of Total	# of Responses	% of Total
Total Number of Responses	974		258		208		237		271	
<25 yrs	2	0.2%	-	-	-	-	2	0.8%	-	-
25-30 yrs	75	7.7%	12	4.7%	1	0.5%	38	16.0%	24	8.9%
31-35 yrs	86	8.8%	16	6.2%	11	5.3%	26	11.0%	33	12.2%
36-40 yrs	119	12.2%	17	6.6%	27	13.0%	29	12.2%	46	17.0%
41-45 yrs	132	13.6%	18	7.0%	22	10.6%	41	17.3%	51	18.8%
46-50 yrs	165	16.9%	44	[illegible]	[illegible]	[illegible]	37	15.6%	44	16.2%
51-55 yrs	151	15.5%	[illegible]	[illegible]	[illegible]	[illegible]	37	15.6%	36	13.3%
56-60 yrs	138	14.2%	[illegible]	[illegible]	[illegible]	[illegible]	21	8.9%	22	8.1%
61-65 yrs	56	5.7%	[illegible]	[illegible]	[illegible]	[illegible]	4	1.7%	11	4.1%
> 65 yrs	50	5.1%	[illegible]	[illegible]	[illegible]	[illegible]	2	0.8%	4	1.5%

Total: 40% over 50 years!

10% over 60 years!

Major Issue Faced with Currently and In Future

Climate Change/Global Warming

- Tremendous confusion and misinformation about this issue.
- Expectation for A&WMA to take a leadership role on this specific issue.
- "A&WMA needs to be at the center of the debate internationally and serve as the neutral forum."
- "A&WMA must debate the issue from a scientific and the political position, and as such, help determine a clear path for professionals to follow."
- Compared to all other issues, there was an expressed tone of anxiety in individuals about this issue. The fear is that an uninformed public will drive the legislators/regulators into action, and without representation the impact on industry would be dramatic.

OVER 50% provided this response

Today's A&WMA

- No major areas to change
- Cost was not seen as a major deterrent
- 81% of the lapsed members would rejoin if their positions changed

Some Major Issues Being Dealt With by the Leadership as a result of the survey:

- Young Professionals - Advisory Committee to the Board
- Membership Retention and recruitment – active task group
- Annual Conference – Exhibits/Product Marketing
- And as of June, Climate Change Steering Committee – to take lead on this issue….

Other areas we are or have focused on:

- New and improved web site!! Go there!
- On-line library back to 1954!!
- Focus next year on membership retention and value.
- Broader out reach as the “neutral” forum

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