



SWPD

Solid Waste Processing Division Newsletter

John Heffernan, Editor

2000 Program Year

Chair's Message

Solid Waste Management will be faced with new challenges in the new millennium. What impact it will have on us will be anyone's guess. Will future waste be recycled over and over again, will it be turned into a useful resource like energy, or will a new technology be invented? We will have to wait and see...

As we look into the future, our division is challenged to continue to provide a technical service to the solid waste industry. While the focus of the past has been on the building and operations of waste-to-energy facilities, current technical issues on air pollution, material recovery and regulations & standards have taken the forefront.

As we move into Year 2000, we will look for continued advancement of newer technologies for processing solid waste. It is up to us to provide technical support and solutions to the problems we are faced with today and tomorrow.

Plans for this year include our sponsoring of the 8th Annual North American Waste-to-Energy Conference. This year's meeting will be held in Nashville, Tennessee from May 22-24. This has been a very good technical meeting for all that participated. More detailed information is included in this newsletter. We are also supporting the writing of a Waste Combustor Operator Handbook. This handbook will serve our profession and industry by providing a peer reviewed reference handbook. For more information please contact John Austin.

Results of the member survey in which some of you participated are reviewed in this newsletter. We are also taking advantage of the explosion of the Internet. This is a magnificent tool that we can use to exchange ideas, get research information and network with our colleagues. Please view our web page at www.asme.org/divisions/etg/swpd/index.html.

The Executive Committee is looking forward to serving ASME SWPD members. We welcome your input and new ideas on how to do this. Please feel free to communicate to us by contacting myself or any of the other members listed on the back cover of the Newsletter. This is your division and we need your input and support to keep it strong.

*John Heffernan
Chair*

John Austin is New Executive Committee Member

John Austin is the incoming member of the SWPD Executive Committee.

Presently, John is the manager of the Hampton / NASA Refuse-Fired Steam Plant. He is a registered Professional Engineer with 28 years of power plant and environmental experience. John has extensive experience in writing and teaching plant engineering and environmental programs. John has taken the place of Roger Beckham who has taken the position of Program Chair on the Executive Committee.

Waste Combustor Operator Handbook

This project is now getting underway with the support of the SWPD. This handbook will help solidify the knowledge base that is the legacy of many of the division's members, past and present. It will serve our profession and industry by providing a peer reviewed reference handbook. Volunteers for "Plant Operations" and "Medical Waste" topics are still needed. Anyone wishing to help should contact John Austin at (757)-865-1914 or Jaustin@city.hampton.va.us.

QRO Committee Doings

There are vacancies on the QRO Committee in several categories. The "Union/Employee" category could use as many as three new members and the categories for "General Interest" and "Insurance" could each use two. These positions require that incumbents attend two meetings per year in New York City. It would be good for the industry if these positions could be filled with sincerely motivated individuals during this lull in Waste to Energy (WTE) Plant construction. During the height of WTE construction activity in the early '90s, these vacancies were filled with indi-

(continued on page 5)

SWPD Survey Results

Waste-to-energy, which has been the emphasis of the SWPD's technical program, is a practice that has been in decline since 1990. As a result, the Division found it necessary to conduct a survey to ascertain if it needs to bring its focus into alignment with industry trends and provide a broader range of topics at its meetings.

ASME staff assisted in this endeavor by developing and administering a questionnaire that was mailed to 894 SWPD primary and secondary active members. Respondents were given the option of answering by mail, fax or online at the SWPD web site. A total of 186 responses were received, corresponding to a 21% response rate.

The responses to the survey reflect a cohesive community with focused interests and clear preferences. Survey respondents identify waste-to-energy as their primary concern, while indicating significant interest in air pollution controls, material recovery, and, to a lesser degree, regulations and standards (see Figure 1).

Registering a clear preference for technical sessions on municipal waste (see Figure 2), they are most likely to attend the North American Waste-to-Energy Conference (NAWTEC) and conferences of the Solid Waste Association of North America (SWANA). Making a decision to attend a conference, they primarily consider technical content, while remaining mindful of location and overall cost.

Figure 1

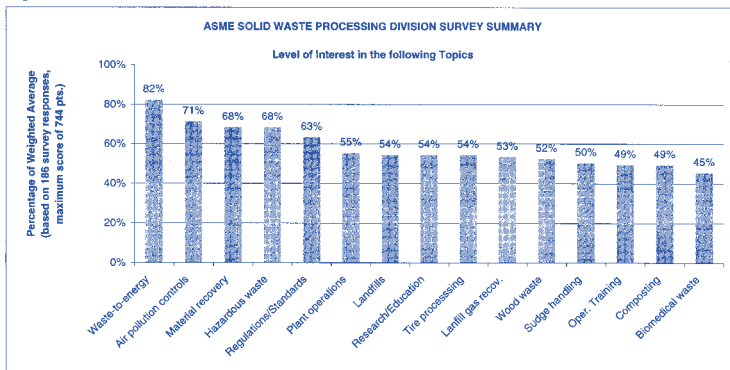
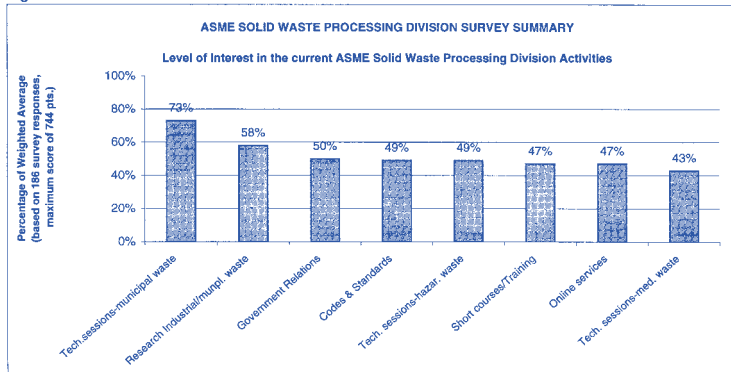


Figure 2



They are also most likely to submit a paper to the conference proceedings of either NAWTEC or the Air and Waste Management Association. Among journals, they cite the *ASME Journal of Energy Resources Technology* as a preferred publication for submissions.

Working primarily in engineering services or as contractors, they are only slightly more likely to work in solid waste processing than in another industry (see Figure 3). They tend to be either consultants or corporate managers (see Figure 4).

Figure 3

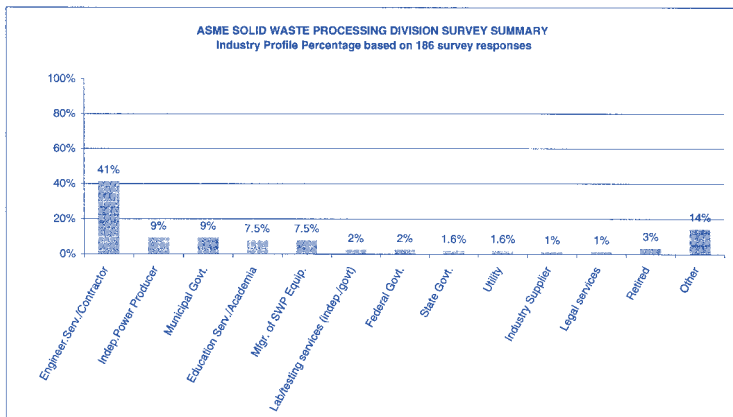
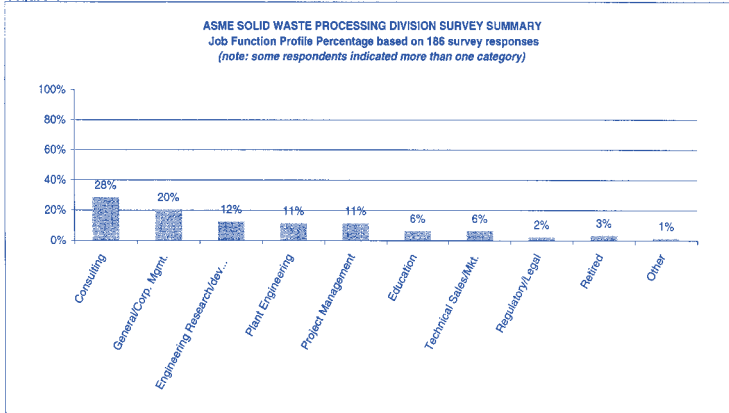


Figure 4



Their suggestions for new Division activities tend to fall into three categories:

- More emphasis on operations improvement in covering waste-to-energy.
- More focus on different waste streams and different waste treatments and uses, including...
 - MSW to alcohol
 - Anaerobic gasification of MSW
 - Pretreatment of industrial waste
 - Co-disposal (enhanced awareness of benefits)
 - Inter-discipline symbiosis
 - All phases of waste, including liquids and gases
 - Waste streams such as scrap ties, lumber, pallets, and construction rubble
 - "Swapping" by-products
 - Uses of solids after sewerage is treated (other than landfill)
 - Research and practical applications for recycling of ash and gas recovery
 - Pollution prevention
- An information clearinghouse to promote exchanges on various "mechanized" aspects of solid waste problems with types and manufacturers, field changes, and other variables. Methods include online mail prompts, bulletin boards, and chat rooms.

The Division thanks all members who responded to the survey. Your feedback is very important as we strive to structure future technical programs and meetings that continue to meet your professional needs.

NAWTEC VIII

May 22-24, 2000
Nashville, Tennessee
Renaissance Nashville Hotel

Sponsored by:

Solid Waste Association of North America (SWANA)
ASME Solid Waste Processing Division
Air & Waste Management Association
Integrated Waste Services Association

For registration information contact:

SWANA
P.O. Box 7219
Silver Spring, MD
Tel: (240) 494-2257 Fax: (301) 589-7068

Advance Program

MONDAY, MAY 22, 2000

8:00 am - 4:30 pm Registration
8:30 am - 9:30 am Continental Breakfast

Opening Plenary Session

9:30 am - 9:45 am Welcome by Maria Zannes, Integrated Waste Services Association
9:45 - 10:00 Welcome to Nashville, Roger Beckham, ASME Solid Waste Processing Division
10:00 - 10:15 European Market, John Skinner, Solid Waste Association of North America
10:15 - 10:45 The Expanding Market for Waste-to-Energy in Europe; Jorgen Haukohl, RAMBOLL
10:45 - 11:15 U.S. Trade and Commerce Department
11:15 - 12:00 Q&A

Lunch

12:00 pm - 1:00 pm

CONCURRENT TECHNICAL SESSIONS 1&2

1:00 pm - 4:00 pm

SESSION 1 - Retrofit, Rules and Regulations

1:00 - 1:20 Implementation of Emission Guidelines for Large Municipal Waste Combustors: The Status of Emissions Reduction; Joseph Puzio, HDR Engineering, Inc.
1:20 - 1:40 Pinellas County Waste-to-Energy Air Pollution Control Retrofit; Marc Rogoff, HDR Engineering, Inc.
1:40 - 2:00 Q&A
2:00 - 2:15 Break
2:15 - 2:35 Adjusting to the Clean Air Act and Marketplace...Update on the Alexandria/Arlington Waste-to-Energy Facility; Harvey Gershman, Gershman, Brickner & Bratton, Inc.
2:35 - 2:55 NOx Compliance Using the NOxOUT® SNCR Process in the 1200 TPD Montgomery County Resource Recovery Facility; Tom Murphy, Montenay Energy Resources of Montgomery County, Inc. (MERMCI)
2:55 - 3:15 New Trends in Flue Gas Cleaning Technologies for European and Asian Waste Incineration Facilities; Wolfgang Schuttenhelm, Reinhard Holste
3:15 - 4:00 Q&A

SESSION 2 - Ash

1:00 - 1:20 Results of the SWANA Profile of Municipal Waste Combustor Ash Management: Survey; Marc Rogoff, HDR Engineering, Inc.
1:20 - 1:40 The Future of TCLP; Greg Helms, EPA Office of Solid Waste
1:40 - 2:00 Q&A
2:00 - 2:15 Break
2:15 - 2:35 Doug Smiley, American Ash Recycling Corporation

2:35 - 2:55 The Use of Municipal Waste Combustor Ash as a Partial Replacement of Aggregate in Bituminous Paving Material; Willard Wilson, Polk County Waste-to-Energy Facility
2:55 - 3:15 TBA
3:15 - 4:00 Q&A

Exhibition & Welcoming Reception

4:00 pm - 7:00 pm

TUESDAY, MAY 23, 2000

Registration
7:00 am - 4:30 pm

Continental Breakfast in Exhibit Hall

7:00 am - 9:30 am

CONCURRENT TECHNICAL SESSIONS 3&4

8:30 am - 12:00 pm

SESSION 3 - Dioxin

Moderator: Tony Licata

8:30 - 8:50 The PVC and Dioxin Issue; Christoffer Rappe
8:50 - 9:10 Dioxin Formation: The Burn Barrel Study; Paul Lemieux
9:10 - 9:30 Q&A
9:30 - 9:45 Break
9:45 - 10:05 Test Method Precision, Greg Rigo, Rigo & Rigo Associates, Inc.
10:05 - 10:25 EPA Dioxin Reassessment; Bill Farland, invited
10:25 - 10:45 Q&A
10:45 - 11:00 Break
11:00 - 11:20 Modern Technologies to Reduce Emissions of Dioxins and Furans from Waste Incineration; Hans-Ulrich Hartenstein, DB Riley
11:20 - 11:40 Context and Perspective: At Home and Abroad; Richard Anderson
11:40 - 12:00 Q&A

SESSION 4 - Bettering Plant Operations

8:30 - 8:50 The NESWC Story: Nothing Ever Succeeds Without Cooperation; Shawn Worster, The North East Solid Waste Committee
8:50 - 9:10 Preparing for Life After Your Current Service Contract; Marc Rogoff, HDR Engineering, Inc.
9:10 - 9:30 Q&A
9:30 - 9:45 Break
9:45 - 10:05 Materials Removal Facilities and Waste-to-Energy Plants: Do They Go Together; Willard Wilson, Polk County Waste-to-Energy Facility
10:05 - 10:25 Refuse-Fired Boiler Heat Balance; John Austin, Hampton/NASA Steam Plant
10:25 - 10:45 Q&A
10:45 - 11:00 Break
11:00 - 11:40 Plant Manager as a Communicator Panel, Felicia Walker Blow, SPSA
11:40 - 12:00 Q&A

Lunch (w/exhibits)

12:00 pm - 2:00 pm

CONCURRENT TECHNICAL SESSIONS 5&6

2:00 pm - 5:00 pm

SESSION 5 - Mercury

2:00 - 2:20 Mercury Control for Municipal Waste Combustors Using the Sodium Tetrasulfide Process; Tony Licata, Licata Energy & Environmental Consultants
2:20 - 2:40 Pilot Scale Testing of a COHPAC Fabric Filter at the SEMASS Waste-to-Energy Facility; Greg Gesell, American Ref-Fuel Company
2:40 - 3:00 Q&A
3:00 - 3:15 Break
3:15 - 3:35 Reduction in Mercury Emissions with Lignite Coke; Ing Wolfgang Esser-Schmittmann, Reinbraun Brennstoff GmbH
3:35 - 3:55 Application of Sorbalit® in the 1200 TPD Montgomery County Resource Recovery Facility; Tony Licata, Licata Energy & Environmental Consultants, Inc.
3:55 - 4:15 Q&A
4:15 - 4:30 Break
4:30 - 4:50 TBA
4:50 - 5:10 TBA
5:10 - 5:30 Q&A

SESSION 6 - Utility Restructuring

Moderator: Katie Cullen

2:00 - 2:20	Case Study Electric Utility Restructuring -Massachusetts Renewable Energy Trust Fund; John A. Merritt, Merritt Environmental Solutions
2:20 - 2:40	The Impact of Electric Restructuring on Waste-to-Energy Projects; Freddi L. Greenberg, Attorney at Law
2:40 - 3:00	Q&A
3:00 - 3:15	Break
3:15 - 3:35	Congressional Hill Staff
3:35 - 3:55	Utility Perspective on the Changing Marketplace
3:55 - 4:15	Q&A
4:15 - 4:30	Break
4:30 - 4:50	Marketing Renewables
4:50 - 5:10	The Future of Tax Credits
5:10 - 5:30	Q&A

WEDNESDAY, MAY 24, 2000

Registration

7:30 am - 5:30 pm

Breakfast Roundtables

7:30 am - 8:30 am

CONCURRENT TECHNICAL SESSIONS 7&8

8:30 am - 12:00 pm

SESSION 7 - Health and Safety

2:00 - 2:20	Chris Andrews, EMCON/IT
2:20 - 2:40	Ergonomics in the WTE Workplace; Dr. Jeffrey Fernandez, Exponent Consultant
2:40 - 3:00	Q&A
3:00 - 3:15	Break
3:15 - 3:35	OSHA Update: Compliance and Recent Court Decisions; Steven Yohay, McDermott, Will & Emery
3:35 - 3:55	Case Study if how to get to VPP Status; John Simmons, Montenay Power Systems
3:55 - 4:15	Q&A
4:15 - 4:30	Break
4:30 - 4:50	Boiler Scaffolding and Fall Protection, Invited
4:50 - 5:10	TBA
5:10 - 5:30	Q&A

SESSION 8 - Finance

8:30 - 8:50	RFP or RIP: Tips on Analyzing Public Operation of Solid Waste Facilities; Janet Martin, Fitch IBCA
8:50 - 9:10	Above the Line Below the Line: All Expenses Are Not Equal; Janet Martin, Fitch IBCA
9:10 - 9:30	Q&A
9:30 - 9:45	Break
9:45 - 10:05	Larry Plitch, StratErgy on Re-Financing
10:05 - 10:25	Financing Waste-to-Energy in an Eco-Park; Pat Mahoney, Energy Answers
10:25 - 11:00	Q&A

Technical Tour

11:30 pm - 5:00 pm

QRO Committee Doings

continued from page 1

viduals whose motivation was to stop or delay construction of new WTE plants.

If anyone in these categories is interested in being nominated, they should call John Norton for details at (937) 225-5896, or better yet, e-mail him at jnortons@aol.com.

The QRO Committee, which used to report to the Board on Safety Codes and Standards, now reports to the recently renamed Board on Conformity Assessment. While important to the Codes and Standards Division of ASME, this distinc-

tion will cause no changes in the certification procedures that any operating plants experience.

Anyone may submit questions for the QRO certification exam test bank to Gus Miller, Fax (516) 471-7807. Ideally, these questions should be accompanied by some authority citation (i.e. textbook, or peer reviewed paper reference). The bank is particularly in need of "Material Handling" questions.

Facility Awards

The Solid Waste Processing Division has periodically presented an award for individual plant facilities to recognize outstanding design, excellence in construction, and operational capabilities.

A nomination for a particular plant can be submitted. For a nomination application you can contact Tony Licata at:

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