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SWPD

Solid Waste Processing Division Newsletter

John S. Austin, Editor *Summer 2002*

Chair's Message

John S. Austin

Since we last met in August our nation and our members have experienced great tragedy and a loss of many good citizens. Some members have been affected directly by the attack on America, and others are now sending family off to fight a war against this terrible threat that civilization is still facing.

As in the past, the will and determination for freedom shall win. As in the past many of us are wondering what we can do to help. And as in the past, the answer is to do what we do, and do it as best as we can. That is the strength of our nation.

We solid waste professionals deliver important services to the public, industry and the military. With the hostilities centered in the Persian Gulf, the energy our waste-to-energy plants deliver is even more important to sustain our society. The solid waste industry and our Division are now at important crossroads. It is us professionals that must apply our talents and technologies to get through those crossroads and move forward as best.

Over the past few years, our Division and members have achieved great successes retrofitting air pollution control systems at facilities providing most of the nation's waste-to-energy capacity. Almost all of our large municipal waste combustors have achieved full compliance with the regulations of the 1991 Clean Air Act Amendments. Yet many of the operating facilities, the small municipal waste combustors, still are planning their air pollution control retrofits. Achieving successful retrofits at these facilities is just one of the many challenges still ahead for the Solid Waste Processing Division and our members.

Mechanical processing of solid waste faces great competition from cheap land disposal. While we have had success competing at large scale facilities, even those big facilities now have difficulty competing with the mega-landfills and new 500 megawatt utility plants. Only our largest facilities have solid waste capacities that can compete with the more economically sized landfills. How many tons would we need to burn to generate 500 megawatts? Too many tons for any solid waste customer we know of. How can we design an economical waste to energy plant? We survived as an industry by dual revenue from disposal and energy.

Low energy prices are now only a memory, and adequate energy supply is an issue once again. Maybe energy prices will help us? Maybe the new political climate and energy policy will help us? Maybe, as creative engineers with new technologies will be able to help ourselves. The best answer may be to perfect the economic performance of the existing technologies.

The small municipal waste combustor retrofits may be our greatest economic challenge. Engineering economical "small plant" retrofits would be a first step toward expansion of waste to energy industry. Keeping as many existing plants operating in an environmentally sound and economical manner is essential, or we may become a vanishing industry.

Another challenge we continue to face are the demands upon us to do much more for less. We know this from our personal and organizational experiences. We have an advantage, we are engineers. It is our charge to apply engineering and economics to make it all work at an acceptable cost. Not just with waste to energy, but with all mechanical waste processing technologies need to be less labor intensive, and we must apply engineering to reduce costs. How we are going to do this is a big question. Where, is at the current operating facilities.

The Division is now reassessing what we can do for our members and their industries. How do we get more young professionals involved with our Division and our industries? We hope to develop a strategic plan for keeping the Division a great resource for our members. With the results of a member survey and your ideas, we hope to set targets to aim for. The year ahead will be filled with challenges and successes for each of us. I am confident that we can make the most of the opportunities to share with and support each other throughout the year.

John S. Austin, P.E.

NAWTEC 10, Philadelphia

Many members and industry experts gathered in Philadelphia, May 6-8, for the tenth Annual North American Waste To Energy Conference. Papers presented detailed current topics and new technology. To order your copy of the conference proceedings, call ASME at 1-800-THE-ASME.

Presentations included technology for inspecting and managing waste contaminated with anthrax or other possible hazards. Attendees completed the conference with a visit to the Montenay Montgomery County Waste-To-Energy Facility.

During NAWTEC 10 the Solid Waste Processing Division sponsored two events. The ASME Award Luncheon was the setting for awarding honors to individuals and facilities. At the ASME Author Breakfast two distinguished papers were honored and the NAWTEC paper process was briefly overviewed.

Division Honors, May 2002

Lifetime Achievement Award
Richard W. Seelinger, Covanta Energy Group
James D. Kilgroe, U.S. Environmental Protection Agency

Distinguished Service Award
Pete J. Waznys, P.E. for many years of serving as Administrative Treasurer of the Solid Waste Processing Division.

Special Award of Appreciation
Linda Ann Licata for many years of dedicated support to ASME Committees and activities.

Facility Recognition Awards, May 2002

Large Waste-to-Energy Facility of the Year (three-way tie)
Miami-Dade County Resources Recovery Facility, Montenay Power Corp.
SEMASS Facility, American Ref-Fuel Company of SEAMASS, L.P.
Huntington Resource Recovery Facility, Covanta Huntington, L.P.

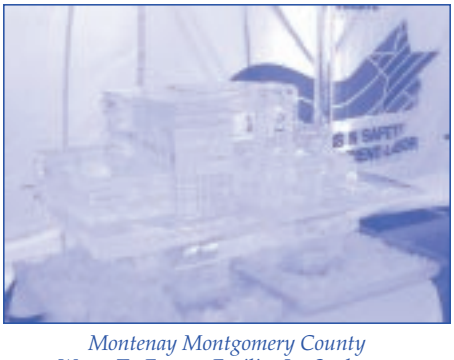
Small Waste-to Energy Facility of the Year
Resource Authority in Sumner County, TN

Material Recovery Facility of the Year
American Ash Recycling Corp. of Pennsylvania (AARPA)

Tour of Montenay Montgomery County Waste To Energy Facility

ASME Lifetime Achievement Award presented to Richard W. Seelinger

ASME Distinguished Service Award presented to Pete J. Waznys



Montenay Montgomery County Waste To Energy Facility Ice Sculpture

ASME Lifetime Achievement Award presented to James D. Kilgroe

ASME Special Award of Appreciation presented to Linda Ann Licata

SWPD Executive Committee Member Bio's

Christopher J. Neu

Christopher J. Neu is the Vice President of Operations Support for Montenay Power Corporation. Chris has over 19 years experience in the power industry, burning such resources as municipal solid waste (MSW), coal and No. 6 fuel oil. During his career, he has been responsible all aspects of a facilities operation, including the operational, mechanical, safety and environmental aspects of operating facilities.

Chris started with Montenay at the 500-ton per day Islip, New York Waste-to-Energy facility, where he worked for twelve years. Previously Chris had worked with the Long Island Lighting Company (LILCO), a public utility. Chris Neu holds a Bachelor of Mechanical Engineering from Manhattan College and a Master of Science in Energy Management from New York Institute of Technology.

Nathiel G. Egosi

Nathiel G. Egosi, P.E. is President and Chief Executive Officer of RRT Design & Construction, a leading developer of recycling facilities since 1989. Mr. Egosi has led the construction of over 60 material recovery facilities nationwide, and has pioneered the development of advanced technologies for the recycling, paper and solid waste industries.

Mr. Egosi is a frequent speaker and has authored numerous technical papers on the subject of solid waste processing and material recovery technologies. Mr. Egosi is a registered Professional Engineer in nine states, and he holds a degree in Civil Engineering from the Polytechnic Institute of New York.

Thomas C. Erikson

Thomas C. Eriksen is the General Manager of the 1,200 ton per day Lee County Florida Waste-To-Energy facility, operated by Covanta Energy. Tom began to working with in 1986 as a Shift Supervisor of the Hillsborough County Florida facility. He then transferred to Bristol Connecticut as Chief Engineer for that 600 ton per day facility.

Tom worked in the Florida phosphate industry from 1979 to 1986 manufacturing Sulfuric acid, Phosphoric acid, Hydrofluoric acid, and electricity. Tom Eriksen worked his way through college as a lab technician at St. Joseph's Hospital in Tampa, and he did receive a B.S. Degree in Chemistry from the University of South Florida in 1979.

Floyd L. Mitchell

Floyd L. Mitchell, P.E. is the General Manager for Nashville Thermal Transfer Corporation , where he started work as Plant Engineer in 1996. Floyd started his career as a First Lieutenant in the U.S. Army Engineer Command, where he served three years in Vietnam as a power project installation engineer. He worked many years in the electric generation industry with Missouri Public Service and several electric cooperatives. Floyd Mitchell attended the University of Missouri at Rolla where he earned a Bachelor Degree in Mechanical Engineering and a Masters in Engineering Administration.

Visit the SWPD Website!

http://www.asme.org/divisions/swpd/

to keep up with Division activities. Let us know how we can make it better to meet your information needs!

Formation of Waste-To-Energy Research & Technology Council (WTE RTC)

Waste-to-energy (WTE) facilities in the U.S. contribute to the national economy, by providing jobs and generating electricity, and to the environment, by conserving non-renewable fossil fuel resources and providing a method to dispose of trash. There are about 100 U.S. WTE facilities generating nearly 2800 megawatts of electricity from the disposal of 30 million metric tons of trash. This industry, represented by the Integrated Waste Services Association (IWSA), has joined hands with the Earth Engineering Center (EEC) of Columbia University to form the Waste-to-Energy Research and Technology Council (WTE RTC). The Council is co-sponsored by the ASME Solid Waste Processing Division, the Solid Waste Association of North America (SWANA), and the U.S. Conference of Mayors' Municipal Waste Management Association (MWMA).

The objective is to bring together engineers and scientists from the industry, government agencies, NGOs, and universities concerned with advancing both the economic and environmental performance of waste-to-energy technologies. The Executive Committee will consist of senior engineers and scientists of waste-to-energy companies; the Environmental Protection Agency, the Department of Energy, the National Recycling Council, environmental organizations, and academia. The Council will meet semi-annually to:

- Share information on technological advances in integrated collection, recycling, and waste-to-energy technologies worldwide.
- Report research on alternate energy recovery technologies.
- Review the results of research work conducted by organizations represented in the Council.

The spring meeting of WTE RTC will be held at the annual NAWTEC meeting that is also sponsored by ASME. The Council is chaired by Nickolas Themelis, Director of EEC, and co-chaired by Maria Zannes, President of IWSA. Professionals concerned with waste-to-energy technologies and their contribution to energy supply and the environment are invited to join the general membership of the Council. For more information, e-mail to Maria Zannes at ZannesWTE@aol.com.

Summer 2002 Division Meeting

The New Yorker Hotel, New York City

Monday, August 19, 2002

Registration & Continental Breakfast

Session I: Waste Combustion Challenges

Small Combustor Rules Update, **John Austin,** ASME Solid Waste Processing Division

APC Selection at Bay County Florida, **Jerry Gross,** Montenay of Bay County Florida

Dutchess County APC Retrofit Project, **John Rose, P.E.,** Dutchess County NY, Resource Recovery Authority

Hot Buffet Luncheon & Keynote Speaker

Session II: Solid Waste Management Technologies

History of the Fresh Kills Landfill and Lessons for the Future, **Nicholas Dmytryszyn,** Environmental Director of the Staten Island Borough President's Office

Life After Fresh Kills: Moving Beyond the NYC Current Waste Management Plan, **Nickolas J. Themelis, Ph.D.** and **S. M. Kaufman,** Earth Engineering Center, Columbia University

Lee County Florida Recovered Materials Processing Facility, **Thomas Eriksen P.E,** General Manager, Covanta of Lee County

Medical Waste Management: Off Site Disposal Options, **Charlie Allutto,** Vice President, Stericycle Inc.

Grows/Tullytown Scale Complex: Largest in the World, **Nathiel Egosi P.E.,** President, RRT Design Inc.

Welcome Reception & ASME Honors Dinner

Tuesday, August 20, 2002

Hot Buffet Breakfast With Sponsor Presentations

Session III: Operating Solid Waste Facilities

Training Operators for Technical Challenges, **John Austin P.E.,** Hampton/NASA Steam Plant

Gas Flow Distribution Studies at Islip NY, **Jayver Luque,** Plant Manager, MacArthur Resource Recovery Facility

Metals Recovery From Solid Waste, **Al Gedgaudas,** Manager of Applications, Eriez Manufacturing Company

Waste Facility Technical Tours

VISY Paper, Inc., Staten Island Paperboard Mill

This modern "post-consumer" paperboard mill uses New York City recycled paper products to produce 900 tons per day of high quality paperboard. The Staten Island mill utilizes a 297-inch Voith containerboard machine with low intensity dispersion to convert the recycled materials into new products. The facility is now looking at expanding, and may possibly use waste-to-energy in the future to produce the steam needed for the pulping process. VISY's investment in this paper mill was the largest industrial investment within New York City in over 50 years.

American Ref- Fuel, Essex County Resource Recovery Facility

This facility is the largest waste-to-energy facility in New Jersey, serving the disposal needs of 22 municipalities. The three process lines utilize the Duesseldorf roller grate technology to produce steam at 650 psia, 750°F. The facility's two turbogenerators produce approximately 62 megawatts of electricity for sale to the local utility

For more details and registration information, go to www.asme.org/divisions/swpd/events/index.html or call 1-800-THE-ASME (843-2763).

About the New Yorker Hotel

The historic New Yorker hotel located in the heart of New York City. This famous art deco hotel first opened its doors in 1929, and at the time it was the largest hotel in the world. The hotel is conveniently located on 34th Street, just a block from the world's largest department store, Macy's. Every November the most famous lineup of marching bands, twirlers and clowns in the nation gather at the New Yorker, the host hotel for the Macy's Thanksgiving Day Parade. Through its doors swept great political leaders such as John F. Kennedy and Hubert Humphrey. Since then, it has undergone many changes, and has now newly decorated rooms and lobbies. This hotel offers beautiful views of Manhattan and beyond. It is just three blocks to the Empire State Building and a block to Madison Square Garden. All major Broadway theaters, movies, and Times Square are a short five-minute walk away. It is across the street from the Penn Station, and parking is available. We all look forward to seeing you in the "Big Apple".

Special Room Rate of $109 per night

(800) 764-4680

or

(212) 971-0101

New Division By Laws

The Executive Committee has recently approved proposed new bylaws. The Division has been overdue to review and update the bylaws, and meetings over the past year that were used to develop bylaws that will best serve the members needs. The proposed bylaws have been to the ASME committees and boards who need to also approve them.

The time of volunteers has become a premium in the busy world of industry. The proposed by laws reduces the time demands and parliamentary procedures the volunteers have to fulfill. Three officers will pair with a second executive committee member to provide for specific functions and fewer committees with no regional chapters. These will help free volunteer time for technical projects and engineering achievement. The executive committee will appoint Regional Co-Chairs, as needed, to organize and represent geographical areas. Soon the proposed bylaws will be available for your review at ASME.org.

Call for New Executive Committee Members

Due to retirements and plant closures we will be looking to add two or three new members to the executive committee. Do you want to make a significant contribution to the profession and the industry? Do you want the opportunity to work with experts and top executives of industry? Are you ready to make the commitment to become a more active professional? If you answered yes to any of these questions please contact John Austin for more information: (757) 865-1914 or e-mail to jaustin@hampton.gov.

Secretary/Treasurer	Chair	Vice Chair
Meeting Minutes & Reports Newsletter Publishing Review & Report Finances Membership & Honors	Chairs Executive Committee Manages Finances & Programs Facilitates Meetings & Reports Papers & Newsletter Articles Provides for Inter-Society Relations	Plans & Manages Programs Coordinates Committee Programs Arranges for SWPD Meetings Training and Scholarship Funding

Solid Waste Processing Division
Business Plan for 2002 -2003

Over the past years the Division had been able to provide meetings and other activities to members at little or no cost. This was possible due to revenues from sponsors and exhibitors that got value from the events. As member attendance dropped exhibitors and sponsors got a lesser value, and revenues disappeared. This culminated at the ANACON'98 meeting, when exhibitors out numbered attendees by two to one.

Furthermore, the Division has begun to loose its identity since most of our activities are co-sponsored by various industry and government groups. We need to increase our recognition by sponsoring events, activities, publications and programs.

The following two year business plan is proposed to reverse that trend by increasing attendance and returning value to the sponsors and exhibitors.

- Subsidize events by offering large member discounts and comps to new members.
- Subsidize events by directly paying for meeting rooms and other costs.
- Meeting sponsors will be asked to make a donation within a specified range at the end of the meeting, to ensure they feel the proper level of value.
- Until meeting attendance increases, the number of sponsors and exhibitors will be limited to ensure they get proper contact time.
- Meetings will be held at low cost locations with small guarantees, so the actual costs subsidized would be low if attendance is low; a successful meeting would cost more.
- Continue to sponsor two ASME events in conjunction with NAWTEC and develop plans to participate in other similar events where participation of Division members is expected.
- Expand and broaden the focus of the division to non-WTE activities to provide value to all members.
- Identify and recruit new members and encourage student members and internships
- Re-establish the scholarship program for college and technical training.
- Move forward with the Waste Combustor Operator Handbook Project.
- Recruit and develop members for positions on the Executive Committee

The success of this plan will be measured in several ways:

1. Actual paid attendance at the meetings.
2. Level of support from sponsors and exhibitors.
3. Division Primary Membership increases.

SOLID WASTE PROCESSING DIVISION

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