OSPREY Newsletter
SPRING 1995

INSIDE

IDEA '95 To Showcase Over 200 Exhibitors

5,000 Visitors Expected to Attend, to Learn About Latest Developments in Fabrics, Fibers, Chemicals, Machinery, and Services

by Steve Smith

IDEA '95, the International Nonwovens Conference and Exhibition, shall take place April 25-27, in Philadelphia, Pennsylvania. The exhibit portion shall include over 200 of the largest suppliers of materials, machinery, and services to the nonwoven industry. The conference portion shall highlight new products, trends, business opportunities, and innovative applications.

Osprey to Introduce a Loss-In-Weight SAP Metering Unit and Other Advances in Products for Process Air Systems

Osprey Corporation will announce several important new product developments at IDEA. The most significant is a precision SAP Metering Unit, which delivers SAP into a venturi in quantities to within 0.2—0.6% accuracy. This level of precision is made possible by the unit's unique combination of technologically advanced components, and enables the unit to pay for itself in material savings within a short time. (See "What's New?" on page 4.)

Our people at the Osprey Product Development Center are constantly at work on the centerpiece of our systems: the Osprey Rotary Drum Filter. Improvements are made continuously. These include recent changes to adapt the drum filter for high temperature applications and a complete re-design to minimize dust accumulation within the enclosure. Visit us at Booth #528 to find out more.

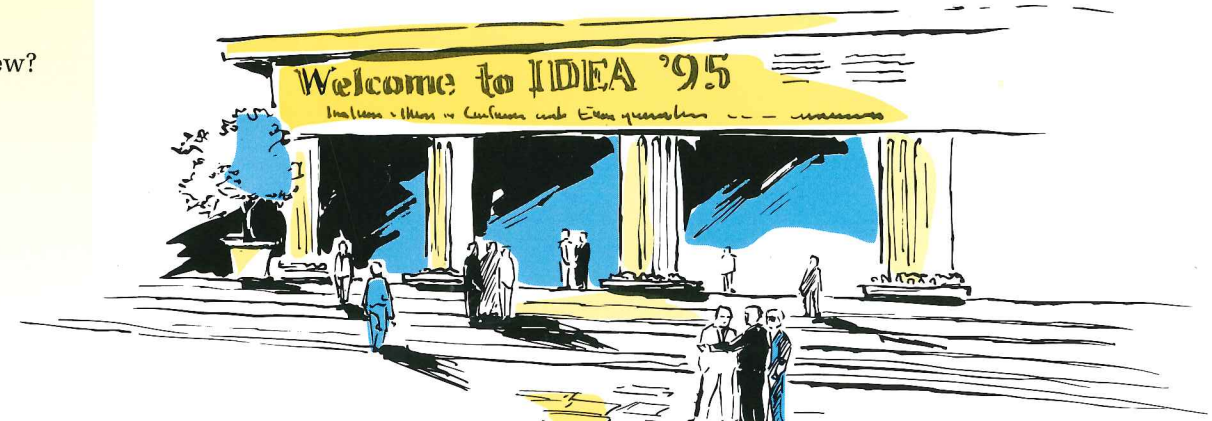
Osprey To Represent Firefly Fire Prevention Systems

Osprey shall also announce its new role as representative in North America for Firefly Fire Prevention Systems. Firefly AB is a Swedish company that makes a fire prevention system the industry acknowledges as state-of-the-art. The Firefly system detects areas at risk for fire and actually prevents the fire or explosion. (See "Firefly Fire Prevention Systems" on page 3.)

IDEA '95 is an ideal forum for Osprey to announce these developments to its customers. One of three major nonwovens shows worldwide, IDEA occurs once every three years, rotating with the other two shows under agreement by the major continental nonwovens associations. The table below shows the succession of shows and their associated nonwovens organization.

For more information on IDEA '95, call us for a free brochure. Or contact INDA by phone, (919) 677-0060, or fax, (919) 677-0211.

Location	Show	Year	Association
United States	IDEA	1995	INDA
Europe	INDEX	1996	EDANA
Japan	ENA	1997	ANNA



Osprey Gains an Air Emissions Specialist and State of the Art Equipment

Osprey Corporation recently added air emissions testing to the list of services our own people can offer you in the field. The arrival of our new field technician, Mark Wescott, lends experience in emissions testing to the already competent resume of our field service department. This addition to the company has created an ideal combination of abilities: design, manufacture, maintenance, and now emissions testing of process air systems.

Along with a new technician, Osprey has acquired the latest technology in emissions testing equipment. This equipment allows a trained operator to evaluate your emissions for comparison with local or national air emissions standards. Efficiency of particulate removal can be verified at the same time. A full report detailing the test results is available to you within 30 days of the sampling. Naturally, corrective action is also available. Diagnostic abilities are inherent in the service our field technicians provide.

Specifically, Osprey's emissions testing capabilities include NIOSH sampling methods to measure air contaminants in the workplace for OSHA compliance, EPA Methods 1-5, and particle sizing to determine the size distribution of particulate matter in the airstream. Please remember, however, that although we can use EPA Methods 1-5 to let you know if you are in compliance with EPA regulations, this is not the same as receiving approval from the EPA itself. It is a diagnostic service only.

The following procedure incorporates EPA Methods 1-5 and particle sizing:

1. Sample and velocity traverses for stationary sources.
2. Determination of stack gas velocity and volumetric flow rate.
3. Gas analysis and dry molecular weight by fyrite analyses of grab samples.
4. Determination of moisture in stack gases.
5. Determination of particulate emissions from stationary sources.
6. Particle size analysis by Cascade Impactor.

Filtration '94

Conference Features New Developments in Filtration Media and Updates on Increasing Filtration Requirements

"Conferences like **Filtration '94** are good forums for exchanging information on the latest developments in the industry. They also allow us to maintain our contacts with experts in the field," remarked Jeff Hinson, engineering manager for Osprey. He and Dave Colburn, Osprey's field service expert, attended Filtration '94 in Baltimore, Maryland, this past November.

The conference showcased a variety of papers written by experts on fluid filtration processes and filtration media. Advances in filtration media have a direct bearing on the function of Osprey's process air systems, and on the development of new systems such as Osprey's high temperature drum filter.

One of the most relevant issues discussed at the conference was the growing demands being placed on filtration media, Jeff recalled. These rising demands are due to several trends:

1. Growing Environmental Consciousness

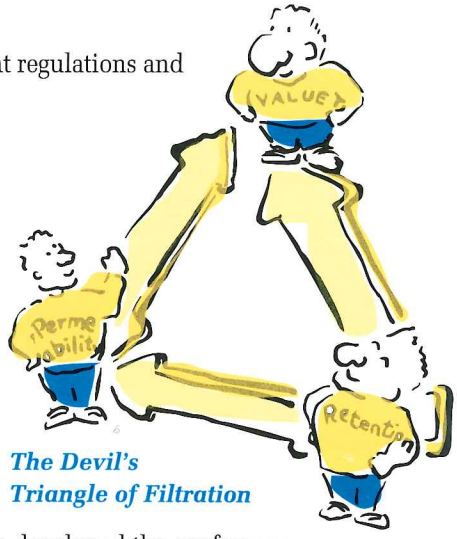
The EPA and the regulatory agencies of other countries have continued to set more and more stringent emission requirements for manufacturing processes.

2. Need to Filter Finer Particles

This trend is a result of both government regulations and changing needs in industry.

3. Rising Number of Processes with Harsher Filtration Conditions

Changes in manufacturing processes have dictated the need for filtration media that can withstand higher temperatures, harsher chemicals, and more mechanical stress.



The Devil's Triangle of Filtration

Other issues of particular interest were discussed in papers such as "The Range of Nonwovens for Filtration," "Metallic Filter Media: Product With a Future," and "Critical Needs of Filter Media," authored by Wells Shoemaker of Filterex Inc., who also developed the conference.

Shoemaker's paper addressed a problem all manufacturers encounter in filtration: balancing the need for value, retention, and media permeability. If you choose to emphasize any one of these factors, you must sacrifice one of the other two. He illustrates this principle with a figure he calls "The Devil's Triangle," the three corners of which represent the abovenamed three factors in balance.

If you are interested in the papers presented at Filtration '94, you can purchase them by contacting Misty Ayers at INDA at (919) 677-0060, or by sending your request by fax to her attention at (919) 677-0211.

Firefly Fire Prevention Systems Actually Prevent Fires and Explosions

Osprey Corporation Is New Representative for Firefly In North America

by Dave Colburn

Firefly AB of Sweden makes a fire prevention system that is generally acknowledged as an ideal solution for many industrial processes. Beginning in January 1995, Osprey Corporation became the representative for Firefly Systems in North America.

Firefly's Fire Prevention Systems are a natural extension of Osprey's products and services. For twenty years we have designed and manufactured process air systems for industries in which fire prevention capabilities are a necessity, industries where milling and other heat- or spark-producing processes are an integral part of manufacturing the product. Our systems perform a wide variety of functions by means of process air, including air filtration and dust collection. Many of these functions make fire prevention measures an absolute must for our customers.

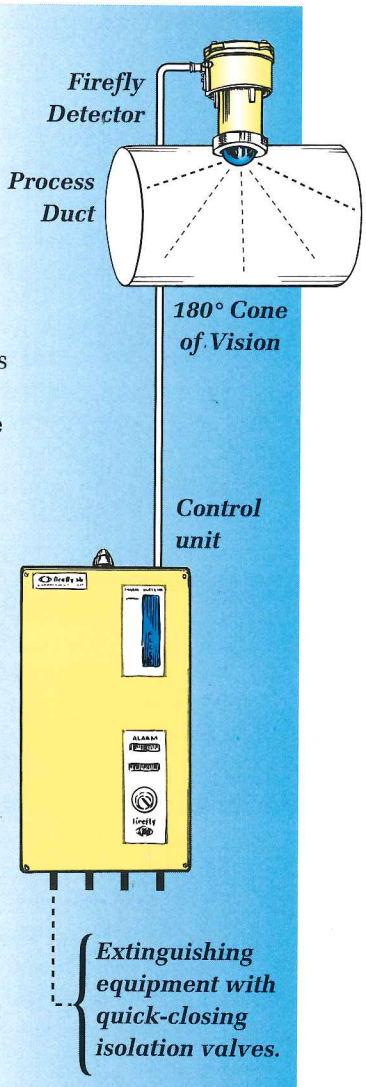
Firefly Sensor Detects Materials Heated to Only 400 Degrees Celsius

Several features make the Firefly System ideal for industrial processes that generate dust or small particles in the airstream. The first is the sensor. The sensor used most often in the Firefly System detects wavelengths emitted by materials at 400 degrees Celsius. This is a common ignition temperature range for the dust generated by many materials in the process of manufacturing, including wood, fiber, and even foods like sugar or flour. The Firefly sensor detects these materials at the glowing ember stage, before an actual flame has materialized. In contrast, many sensors used in other fire protection systems do not detect particles until they are heated to the range of 700 degrees Celsius. At that point the fire is already in progress.

Firefly Extinguishing System Minimizes Production Losses

How the extinguishing agents are applied is the other key factor in the Firefly System's effectiveness. Precision and force are the rule for Firefly's extinguishing process. Whether water, CO_2, dry chemical, or steam, the extinguishing agent is applied with great accuracy and a lot of force. The ember is extinguished immediately, less actual extinguishing material is used, and the production down time is none or minimal.

The scope of this newsletter doesn't allow a more through description of all of the superior features of the Firefly System. If you would like more information, contact me, Dave Colburn, here at Osprey.



Who's New at Osprey?

- **Sheryl Adams,** a native of Illinois, joined Osprey Corporation in January. Formerly a certified emergency medical technician, she now uses her emergency-coping skills to help keep order in our accounting department.
- Since serving as an intern in our exporting department, **Elizabeth Barron** has earned her Bachelor of Business Administration degree, with an emphasis in marketing and a minor in French, from the University of Georgia. This past December, she began assisting Osprey in International Sales and Marketing.
- **Crystal Swanson** is our newest hand in the drafting department. For many years, Crystal lived in California, where she received her A.A. degree from Glendale Junior College, and also survived to tell about the Northridge Earthquake of 1994.
- **Debra Taylor** is the owner of the cheerful voice you hear when you call Osprey on the telephone. Debra is a traveling woman, born in Mississippi, later a Texan, and an Atlantan since 1992. Debra is also the busy mother of a 7-year-old boy.
- **Mark Wescott** is our newest field service technician, a graduate of the United States Military Academy at West Point and an air emissions specialist. Fluent in written and spoken German, Mark loves to travel and recently completed his first field service trip to Europe for Osprey. Mark and Dixie, his wife of six months, come to us from Florida.

What's New?

by Marty Price

The Next Generation in SAP Metering Units

Precision is the key attribute of Osprey's new "Loss-In-Weight" SAP Metering Unit. A series of independent tests measured the feeding rates of the L.I.W. Unit at an accuracy to within 0.2—0.6%. Compare this to the 4—5% accuracy of a traditional volumetric SAP Dosing Unit. Some quick calculations show that the potential savings can quickly pay for the cost of a new unit.

The three main parts of the LIW are the feeder, the scale assembly, and the controller. The feeder has an electromagnetic drive and all stainless steel or white neoprene contact points. The scale consists of a load cell ring with three-point suspension. The load cell is environmentally protected and has temperature compensation and mechanical stops for overload protection. Finally, the controller is a 16-bit, Intel 80C microprocessor for monitoring continuous loss in weight.

New Product Brochures Now Available

We have just published new literature on five Osprey products:

- **Polyfilm Scrap and Trim Collection System**
- **Nonwoven Trim Handling System**
- **Osprey Baler**
- **Osprey Scrap Collector**
- **Osprey Air/Fiber Separators,** including the Rotary Screen Condenser, the Rotary Screen Separator, and the MS-4

Contact our sales department to make sure you receive these publications.

A Prototype for the Rotary Volumetric Feeder

We have just completed the design of the new RF-6 Rotary Volumetric Feeder. Its capabilities have been shaped for metering small amounts of material into a production line. Applications might include feeding specialty fibers into a diaper line, or small amounts of reclaim fiber into a sanitary pad line. The unit can handle quantities from 123 pounds/hour down to almost zero.

Marty To Speak About Product Advances at IDEA '95

Marty Price will be speaking at IDEA '95 to share information about other advances we've made at our Product Development Center. You can hear him on Wednesday, April 26, at 2:40 p.m., Room 201-A.

Be sure to come and catch up on the latest developments in filtration and other process air systems.

OSPREY NEWSLETTER

Osprey Corporation
1835 Briarwood Rd
Atlanta, GA 30329 U.S.A.
Ph (404) 321-7776
Fax (404) 634-1401

Bulk Rate
U.S. Postage
Paid
Permit No.
365
Atlanta, GA

The *Osprey Newsletter* is published quarterly by
The Osprey Corporation
Editor: Ann Litrel
Printed on Recycled paper
Entire contents © 1995 by The Osprey Corporation, design © by The Newsletter Factory®.