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# PFMA CONNECTION

**The Resource for Plant and  
Facilities Maintenance Professionals**  
[www.pfmainc.com](http://www.pfmainc.com)

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Maintenance Expo . . . . .pages 8 & 9**

**Volume 2, Issue 2**

**April 2003**



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# Milwaukee Area Chapter

## PRESIDENT'S MESSAGE MILWAUKEE AREA CHAPTER

Serving Southeastern Wisconsin

The auto mechanic stares out at you from the TV screen and states, "Pay me now or pay me later". This statement certainly captures the philosophy of preventive maintenance. However after spending my entire working career in maintenance and manufacturing, I don't always bring this mentality home with me. Without the benefit of a formal home maintenance program, I frequently miss recommended mileage-based oil changes and seasonal furnace filter replacements. Fortunately, for manufacturing and service industries these maintenance systems, either manual or computerized, are being used daily to protect and extend the useful life of our assets and providing a safe, healthy, and productive work environment for our employees. One of these days I will get around to designing my own program so I can practice at home what I preach at work. Pay me now or Pay me later!

In addition to preventive programs, the use of predictive technologies is becoming widespread in the industry. Ultra-sonic scanning of plant air compressor systems has the ability to identify leaks and help protect the integrity of the air distribution system. Correcting these leaks will reduce both the cycle-time of your equipment and energy costs. Also, maintaining an efficient air distribution system will reduce or prevent the very real possibility of adding an expensive compressor to maintain adequate capacity in the system.

Other useful technologies that can be added to the maintenance managers tool belt or briefcase are vibration analysis and laser alignment. At my company, we used these diagnostic techniques to evaluate and baseline the HVAC equipment during the commissioning phase of a new facility. The cost of the service is miniscule compared to the expenses experienced down the road in the form of reduced equipment life, repairs, and replacements upon expiration of warranties.

Your equipment, like ours, was shipped from the manufacturer by rail and truck. Cranes and forklifts handled the machinery multiple times before the on-site installation crew positioned it with Johnson bars. The contractors installed the couplings and belts, units were commissioned, and the one-year warranty began. However, employing both laser alignment and vibration testing, we identified serious alignment problems with many of the rotating mechanical components. Undetected, this would have caused premature and possibly reoccurring bearing failures. After a period of time the units were re-tested and compared to the initial baseline measurements. Five bearings were found to be faulty and a squirrel cage was out of balance inside an air handling unit. These items were detected and corrected, at no cost, within two months of the expiration of warranty.

As these systems become more complex and automated, maintenance managers are making critical assessments of their operations. Many are

making solid business decisions to focus on their core competencies and out-source other functions. A core competency is any activity that enhances an organization's competitive advantage in the marketplace. In manufacturing, maintenance is moving toward concentrating on functions that enhance the manufacturing process, increase product quality, and reduce operating costs. Mission critical functions, which an organization is unable to reliably provide, are being out-sourced to experts by forging mutually beneficial partnerships. Ancillary building tasks are increasingly being shifted to outside contractors who can perform the work more economically. This allows the in-house maintenance organization to focus on and add value to the core business unit.

Once again, I have taken a long-winded approach to make my point. Maintenance is alive and well, however we are changing. The PFMA will continue to be at the forefront of these changes by providing professional networking and educational training opportunities to our members. As members, we need to assist our membership committee and promote the organization. Growing membership is everybody's responsibility. I encourage you to attend our monthly dinner meetings, plant tours, expositions, training sessions and social events. Had you attended every meeting and tour since last fall, you would have been exposed to every item and maintenance practice detailed in my dissertation. Our committees are always looking for volunteers. Please contact any officer or me if you are interested in joining our team. We would appreciate your help.

Finally, as we approach the summer break, I would like to acknowledge all the Milwaukee Area Chapter officers and directors for their contributions in making PFMA the fastest growing maintenance organization in Southeast Wisconsin, throughout the State and beyond. See you in the fall or maybe at the summer golf outing. Watch the mail or check the web site for future events and training opportunities.

Kenneth Kieck

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### PFMA Milwaukee Area Chapter

#### 2<sup>nd</sup> Annual Golf Outing

#### Silver Spring Country Club

N56 W21318 Silver Spring Drive

Menomonee Falls, WI

Tuesday, June 10<sup>th</sup>, 2003

For additional information, contact:

Michael Sydor

PFMA

5986 Donegal Road

Hubertus, WI 53033

414-530-5304

Registration form: [www.pfmainc.com](http://www.pfmainc.com)

# Central Wisconsin Chapter

## PRESIDENT'S MESSAGE CENTRAL WISCONSIN CHAPTER

Serving Central Wisconsin

A number of things are needed to make PFMA Inc. and PFMA Chapters succeed. The key is members working together. These members come from many backgrounds but are predominantly maintenance personnel (Regular Members) and our Vendors (Affiliate Members). These members work together to promote the maintenance field by sponsoring educational seminars, maintenance & engineering shows and social occasions, like vendor golf outings where members and non-members can come together to exchange ideas.

The PFMA is always looking for more good members. The more Affiliate and Regular Members that we can get together, the better this organization can function. To this end, we ask non-members to take a look at

this organization. Statewide membership is 600 plus with active Chapters in Milwaukee, Central Wisconsin and Fond du Lac. New Chapters have started in Madison and LaCrosse and will add to the membership by fall.

PFMA is a growing organization. We would like you as a member to help us grow into the BEST maintenance organization serving the maintenance field.

See you at an upcoming PFMA Chapter Membership Meeting in your area.

James L. Lang

## CHAPTER NEWS CENTRAL WISCONSIN CHAPTER

Chapter activity remains very high. A good turn-out was treated to one of the best tours that we have had. The staff at Jarp Manufacturing in Schofield gave us a very in-depth look into the engineering and manufacture of hydraulic cylinders and components. Time was taken to explain how the simple task of changing the location and/or orientation of machines has lead to greater efficiency and plant through-put. Our thanks go out to Jarp Manufacturing.

Our February meeting was designed to show off to our bosses and significant others a bit of what PFMA is about. Our VIP Nite, held in Stevens Point, did just that. Several of our scholarship recipients were in attendance. The evening was capped off under the illusions of a magician.

March's meeting finished the quarter with a dinner seminar on Vision Systems, sponsored by Control Specialists.

Work continues on the promotion of the Plant Engineering & Maintenance Expo scheduled for May 13 at the Holiday Inn & Convention Center in Stevens Point. This is a critical year for the Central Wisconsin Chapter to promote the show and increase the attendance at the show and seminars. The PFMA name is better known this year and different advertising efforts are being made to at least double show attendance. Booth space is still available. To confirm your booth space, contact Stefanie Dow at ph: 262-695-5725, fax: 262-695-7518 and e-mail: [dow@execpc.com](mailto:dow@execpc.com). To pre-register to attend, visit the PFMA website: [www.pfmainc.com](http://www.pfmainc.com).

Dates to remember:

- April 8<sup>th</sup>** Tour of Sunrise Medical
- April 28<sup>th</sup>** Board meeting 6:00pm Runway Restaurant
- May 13<sup>th</sup>** Plant Engineering & Maintenance Expo, 9:30am to 5:00pm, Holiday Inn & Convention Center, Stevens Point
- May 27<sup>th</sup>** Board meeting 6:00pm Runway Restaurant
- June 2<sup>nd</sup>** Vendor Golf Outing at Ridges in Wisconsin Rapids.



### Central Wisconsin 2<sup>nd</sup> Annual Golf Outing RIDGES GOLF COURSE

2311 GRIFFITH AVENUE, WISCONSIN RAPIDS

**MONDAY, JUNE 2<sup>ND</sup>, 2003**  
REGISTRATION 9:00AM  
SHOT GUN START 10:00AM

Fee: \$75.00 per golfer or \$300.00 per foursome  
Includes: 18 holes golf/cart, Flag events,  
Refreshments on course  
Dinner @ 5:00pm – Buffet style  
Dinner only guests \$25.00

Vendors and others are encouraged to donate prizes.

**For additional information, contact:**

Tom Ticknor  
5421 30th Street South  
Wisconsin Rapids, WI 54494  
Ph. 715-424-2476



PFMA Expo

## Advertiser Index

*Please support these advertisers that support PFMA!*

Advertiser	Phone	Page
Wenniger Compressor Company	414-372-5320	2
Wisconsin Lift Truck	800-236-2379	6

## Marshland Chapter

### PRESIDENT'S MESSAGE MARSHLAND CHAPTER

Doug Prunty  
Serving Northeastern Wisconsin

As I sit here typing this message it's hard to believe that the first quarter of 2003 is almost over and spring is just around the corner. Oh- did I mention that last night we got our first 6 inch snow fall this season?

The Marshland Area Chapter held elections for the year 2003. I was elected as President, Bonnie Holden- Secretary, Dave ( Dyno ) Draves-Treasurer and a board which consists of Education Chair, Membership Chair, Program Chair, Golf / Expo Chair, along with eight board members. As you can see we are prepared for a successful chapter.

Our January meeting and program was Fire Equipment Maintenance Procedures presented by BELPRO Fire Specialist Inc.

Our February meeting and program was Geo- Thermal heating and cooling systems presented by Alliant Energy.

The March meeting program was on the 19th and the program will be on Commercial & Industrial Roofing Solutions presented by Johns-Manville Company.

**Upcoming events:**

June 20, 2003 – Golf Outing – Mayville Country Club.  
For addition information, contact Dave Knapp at Stainless Steel Fabricating, Inc.  
1-920-623-3003 x 215.

### Upcoming Advertising Opportunities in PFMA Connection

**PFMA Statewide Membership Directory**  
Published July, 2003  
Advertising Space Closes: May 2, 2003

**Madison Expo/September  
2003 issue**  
Advertising Space Closes: August 18, 2003

**Products & Services Directory/November  
2003 issue**  
Advertising Space Closes: October 13, 2003

**Milwaukee Expo/January  
2004 issue**  
Advertising Space closes: December 10, 2003

**Central Wisconsin Expo/March  
2004 issue**  
Advertising Space Closes: February 3, 2004

To confirm your advertising schedule,  
contact Stefanie Dow, Sales Manager,  
phone: 262-695-7479, fax: 262-695-7518,  
e-mail: [dow@execpc.com](mailto:dow@execpc.com)



### Marshland Chapter Golf Outing Mayville Golf Club Friday, June 20<sup>th</sup>, 2003

For additional information, contact:

Tom Curtis  
Grande Cheese Company  
1-920-583-1604

Dave Draves  
Grande Cheese Company  
1-920-583-1644

David Knapp  
Stainless Steel Fabricating, Inc.  
1-920-623-3003, ext. 215



### PFMA Connection

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**Marshland Chapter**  
Serving Northeastern Wisconsin  
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Phone: 920-923-1790  
Business Information:  
Phone: 920-921-0821x316  
Fax: 920-921-5409

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Serving Southeastern Wisconsin  
Mike Klaus  
BDI  
21850 Watertown Rd.  
Waukesha, WI 53186  
Phone: 262-797-6616  
Fax: 262-797-6623  
E-mail: [klausm@execpc.com](mailto:klausm@execpc.com)

**Tri State Chapter**  
Serving Western Wisconsin,  
MN & IA  
Carl Lange  
8058 223rd Street  
Cadott, WI 54727  
Phone: 715-289-3310  
E-mail: [cflange@core.com](mailto:cflange@core.com)

## Tri State Chapter

Acting President, Carl Lange is planning monthly meetings for March, April, and May. These meetings will be held on the second Tuesday of each month. For more information on these meetings or membership, please contact:

### Tri State Chapter of PFMA, INC.

Carl Lange  
8058 223rd Street  
Cadott, WI 54727  
Phone: 1-715-289-3310  
Fax: 1-715-289-3811  
[cflange@core.com](mailto:cflange@core.com)

Regular fall meetings will be scheduled also for the second Tuesday of each month and a schedule for these meetings will be available by May 28, 2003 at the Tri State chapter Golf Outing.



PFMA Expo



### Tri State Chapter

Invites you to their annual

### Golf Outing

Wednesday, May 28, 2003

**Cedar Creek Country Club  
LaCrosse, WI**

For registration information contact:

Carl Lange  
8058 223rd Street  
Cadott, WI 54727  
Phone: 715-289-3310  
E-mail: [CFLange@core.com](mailto:CFLange@core.com)

Dave Johnson  
Phone: 608-779-6353

## Calendar of Expositions

*Make plans to exhibit in and attend these upcoming expositions:*

### May 13, 2003

Plant Engineering & Maintenance Expo  
Sponsored By PFMA Inc. of Central WI  
Tuesday, 9:30 AM – 5:00 PM  
Holiday Inn and Convention Center  
Stevens Point, WI

### October 1, 2003

Plant Engineering & Maintenance Expo  
Sponsored By PFMA Capitol Area Chapter  
Wednesday, 10:00 AM – 5:00 PM  
Marriott Madison West  
Middleton, WI

### April 7 & 8, 2004

Plant Engineering & Maintenance Expo  
Sponsored by PFMA Milwaukee Area Chapter  
Wednesday & Thursday  
11:00 AM- 7:00 PM each day  
Wisconsin State Fair Park  
West Allis, WI

To confirm booth space in any or all of these expos, contact Stefanie Dow at  
phone: 262-695-7479, fax: 262-695-7518, e-mail: [dow@execpc.com](mailto:dow@execpc.com)

To pre-register to attend any of these shows, visit our website:  
[www.pfmainc.com](http://www.pfmainc.com).



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# Calendar of Upcoming Events

## 2003

Please Note: Table-Top displays are now available at PFMA Milwaukee Chapter meetings. Please contact Al Tredo at phone: 414-788-8912 or e-mail: [atredo@lselectric.com](mailto:atredo@lselectric.com) for details on the remaining dates.

Cost is \$75 per table. Two table displays will be featured at all regularly scheduled PFMA Milwaukee Area Chapter dinner meetings.

### April

- 4/2 & 4/3/03** Plant Engineering & Maintenance Expo, sponsored by PFMA Milwaukee Area Chapter, Wisconsin State Fair Park, New facility!  
Show Hours: 11:00 AM- 7:00 PM each day.

#### National Electrical Code Seminars:

PFMA will sponsor two 4-hour electrical code sessions on 4/2 & 4/3 in conjunction with the Expo. Visit our website to register:

[www.pfmmainc.com](http://www.pfmmainc.com).

No PFMA Milwaukee Area Chapter membership meeting due to Expo earlier in the month.

- 4/29/03** PFMA Milwaukee Area Chapter Operating Committee Meeting, 5:30 PM, Legacy Fine Dining, New Berlin.

### May

- 5/13/03** PFMA Plant Engineering & Maintenance Expo, sponsored by the PFMA Central Wisconsin Chapter, Holiday Inn & Convention Center, Stevens Point, 9:30 AM – 5:00 PM.

#### National Electrical Code Seminars:

PFMA will sponsor two 2-hour electrical code sessions during the Central Wisconsin Expo. Visit our website to register:

[www.pfmmainc.com](http://www.pfmmainc.com).

- 5/13/03** PFMA Capitol Area Chapter Tour of Hellenbrand Water Treatment assembly plant, Waunakee. Contact the PFMA Capitol Area Chapter to register, e-mail: [pfmacapitol@hotmail.com](mailto:pfmacapitol@hotmail.com).

- 5/20/03** PFMA Milwaukee Area Chapter Membership Meeting, 5:30 PM, Legacy Fine Dining, New Berlin.

- 5/27/03** PFMA Milwaukee Area Chapter Operating Committee Meeting, 5:30 PM, Legacy Fine Dining, New Berlin.

- 5/28/03** PFMA Tri State Chapter Golf Outing, Cedar Creek Country Club, LaCrosse, WI.  
Visit our website for more details: [www.pfmmainc.com](http://www.pfmmainc.com).

### June

- 6/2/03** PFMA Central Wisconsin Chapter 2nd Annual Golf Outing, Ridges Golf Course, Wisconsin Rapids.  
Visit our website for more details: [www.pfmmainc.com](http://www.pfmmainc.com).

**No PFMA Milwaukee Area Chapter Membership Meeting**

- 6/10/03** PFMA Milwaukee Area Chapter Golf Outing, Silver Spring Country Club. Visit our website for more details: [www.pfmmainc.com](http://www.pfmmainc.com).

- 6/20/03** PFMA Marshland Chapter Golf Outing, Mayville Golf Club.  
Visit our website for more details: [www.pfmmainc.com](http://www.pfmmainc.com).

- 6/24/03** PFMA Milwaukee Area Chapter Operating Committee Meeting, 5:30 PM, Legacy Fine Dining, New Berlin.

### July

**No PFMA Milwaukee Area Chapter Membership Meeting**

- 7/29/03** PFMA Milwaukee Area Chapter Operating Committee Meeting, 5:30 PM, Legacy Fine Dining, New Berlin.

### August

**No PFMA Milwaukee Area Chapter Membership Meeting**

- 8/26/03** PFMA Milwaukee Area Chapter Operating Committee Meeting, 5:30 PM, Legacy Fine Dining, New Berlin.

### September

- 9/23/03** PFMA Milwaukee Area Chapter Membership Meeting, 5:30 PM, TBA.

- 9/30/03** PFMA Milwaukee Area Chapter Operating Committee Meeting, 5:30 PM, Legacy Fine Dining, New Berlin.

### October

- 10/1/03** PFMA Madison Expo, Marriott Madison West, 10:00 AM- 5:00 PM, Marriott Madison West, Middleton.

#### National Electrical Code Seminars:

PFMA will sponsor two 2-hour sessions during the Madison Expo.

- 10/21/03** PFMA Milwaukee Area Chapter Membership Meeting, 5:30 PM, TBA.

- 10/28/03** PFMA Milwaukee Area Chapter Operating Committee Meeting, 5:30 PM, Legacy Fine Dining, New Berlin.

### November

- 11/18/03** PFMA Milwaukee Area Chapter Membership Meeting, 5:30 PM, TBA.

- 11/25/03** PFMA Milwaukee Area Chapter Operating Committee Meeting, 5:30 PM, Legacy Fine Dining, New Berlin.

### December

- 12/16/03** PFMA Milwaukee Area Holiday Party for PFMA Members and their families, time and location TBA.

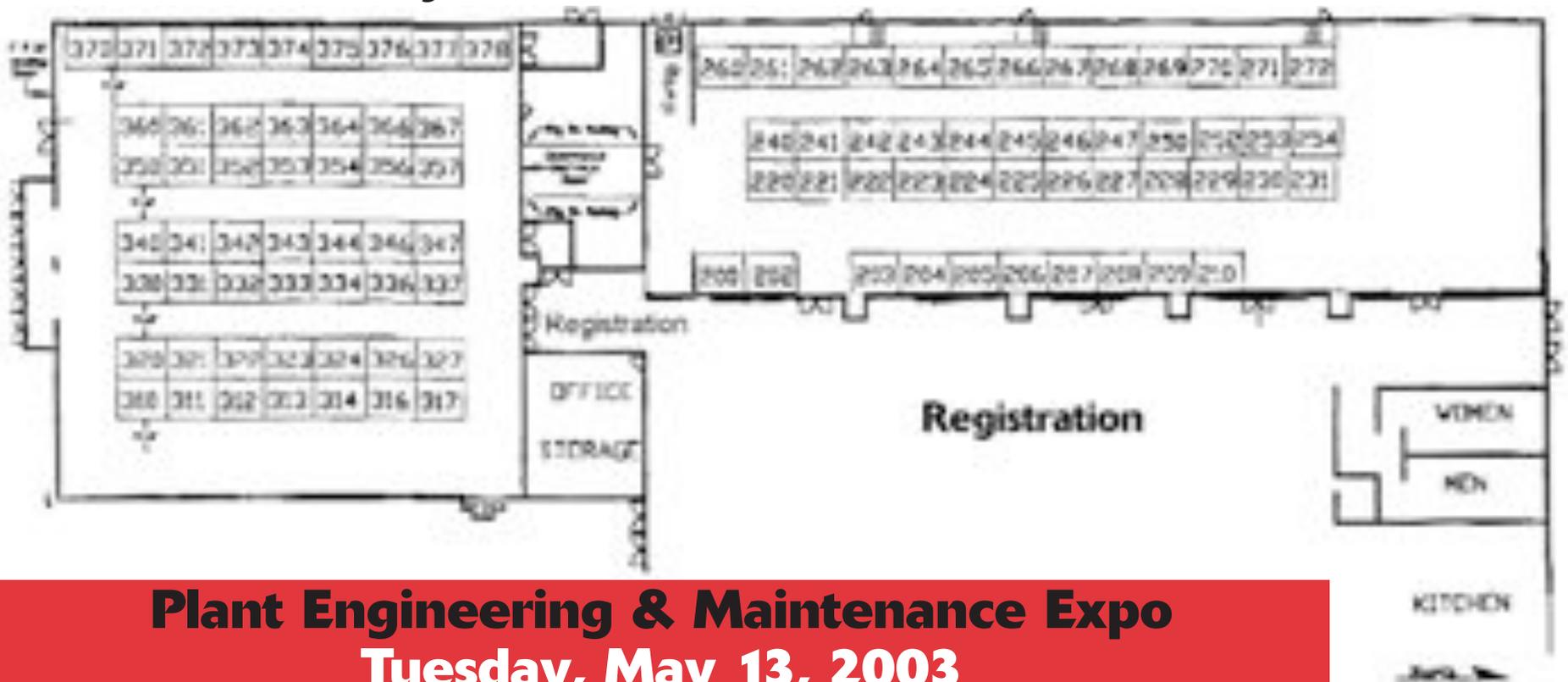
**Please note: Dates are subject to change. Generally, the PFMA Milwaukee Area Chapter membership meetings are held on the third Tuesday of the month and Operating Committee meetings on the last Tuesday of the month.**

**Also: It is very important for PFMA members and their guests to confirm the dinner portion of the membership meetings in advance. It is not cost-effective to the organization to order more dinners than attendees.**

**To add items to the Calendar of Events for future issues of PFMA Connection, please contact Stefanie Dow at phone: 262-695-7479, fax: 262-695-7518 and e-mail: [dow@execpc.com](mailto:dow@execpc.com).**

# PFMA Central Wisconsin 2003 EXPO

## Holiday Inn & Convention Center – Stevens Point



**Plant Engineering & Maintenance Expo**  
**Tuesday, May 13, 2003**  
**Holiday Inn & Convention Center, Stevens Point, WI**  
**Sponsored by PFMA Inc. of Central Wisconsin**  
**Show Hours: 9:30 a.m. – 5:00 p.m.**

### Reserve your booth space now!

To confirm your booth space, contact Stefanie Dow at phone: 262-695-5725, fax: 262-695-7518 and e-mail: [www.pfmmainc.com](http://www.pfmmainc.com).

Join these companies at the 2003 PFMA Central WI Expo. Your company will benefit from this "one stop shopping" environment for products and services sold to area plants and facilities. Given the broad geogra-

phy covered by this expo, your time spent at this show will put your company representatives in contact with prospective sales contacts within the 100-mile radius of Stevens Point. This will save you time prospecting in the field and add new qualified leads to your sales pipeline.

To pre-register to attend the show, see page 10 or visit the PFMA website: [www.pfmmainc.com](http://www.pfmmainc.com).

## 2003 PFMA Expo Exhibitors

Company Name	Booth Number	Company Name	Booth Number	Company Name	Booth Number
Abbott Plastics	223	Falk Renew	222	Mid-State Technical College	209
All-Vac Janitorial Supply	241	Fluid Handling	323	Midwest Electrical Testing	342
Anderson Pump & Process	331	Fox Valley Fittings & Controls	247	Northway Communications, Inc.	230
Appleton Electronic Distributors	347	Gross Automation	224, 225	NTC	208
Automation Solutions Plus	314	GWS Supply, Inc.	245	PLI, LLC	262
Badger Electric Motor, Inc.	350	High Voltage Maintenance	221	Power/mation	200
Badger Plastic & Supply Inc.	205	Industrial Equipment & Service Inc.	203	Quality Door & Hardware	226, 227
Batteries Plus	356	Industrial Protective Coatings, Inc.	316	Schaeffer Specialized Lubricants	372
Braun Elevator Company	228	Infrared Solutions Inc.	269	Storage Systems of Wisconsin	263
BSI Scales Inc.	251	In-Place Machining Company	250	T&A Industrial Dist.	252
Columbia Pipe & Supply	364	ITT-Flygt	202	TMI Coatings, Inc.	367
Control Concepts Technology	320	J. F. Harrison, Inc.	264	Town & Country Electric	357
Control Specialists Inc.	327	L P International Inc.	240	TW Masters	229
Courtney Industrial Battery	361	L&S Electric, Inc.	260	United Rentals (N.A.) Inc.	220
CPR Services Inc.	371	Lakeland Overhead Door	373	Victory Janitorial	229
E.L. Simeth Co. Inc.	333	Lift, Stak & Stor	330, 340	Wisconsin Control Corp.	376, 377
Energetics Industrial Distributors	310	Metal Surgery Milwaukee, LTD	265		
Enerpac	317	Midland Plastics	206		

Exhibitors confirmed as of March 21, 2003

**Visit our Website [www.pfmmainc.com](http://www.pfmmainc.com) for the most current listing of exhibitors.**

# PFMA Central Wisconsin 2003 EXPO Seminars

## Free Technical Seminars

### 9:00 a.m. Early Bird Special

**Topic:** Non-contact temperature measurement and thermal imaging for predictive and preventive maintenance.  
**Presenter:** Grant Thorstad  
**Sponsor:** Infrared Solutions Inc.

### 10:30 a.m.

**Topic:** The World-Wide-Web and your maintenance program. Using a web site to host your maintenance program archives and drawings.  
**Presenter:** Scott Ladwig  
**Sponsor:** Midwest Electrical Testing

### 12:30 p.m.

**Topic:** Knowledge to properly protect your facility's electronic infrastructure. Field applications. Proper use of surge and UPS products for industrial, commercial and residential applications.  
**Presenter:** Brian Lotto  
**Sponsor:** Control Specialists

### 2:00 p.m.

**Topic:** Crack Repair-Latest technology, equipment and products for sanitary, food and general plant applications.  
**Presenter:** J. Brosteau  
**Sponsor:** Industrial Protective Coatings

**Special Thanks to the following  
 for their support of the  
 2003 PFMA Central Wisconsin Expo:**

Wisconsin Public Service for their supplemental promotion of the expo.

Control Specialists & L&S Electric for their bulk distribution of expo brochures.

## National Electrical Code Seminars

PFMA Inc. Of Central Wisconsin will sponsor two 2-hour electrical code sessions on May 13, 2003 in conjunction with the Plant Engineering and Maintenance Expo at the Holiday Inn & Convention Center, Stevens Point, WI. These sessions offer CEU credits, with a fee for each participant.

**Session One,** 2-hours on the changes taking effect in Comm 16 and the National Electrical Code.

**Session Two,** 2-hours on the International Building Code (IBC) and the National Electrical Code (NEC) requirements.

Joe Hertel, Department of Commerce Supervisor, will be presenting this valuable information at both sessions.

### What a great deal!

A two- or four-hour learning experience, with beverage breaks and free admission to the biggest maintenance expo in this area. A free lunch buffet ticket is included for those attending both sessions.

### Why attend these sessions:

There are over 500 changes in the NEC and the introduction of the IBC in the state of Wisconsin. This type of learning experience is necessary for survival in the electrical business. CEUs will be offered for re-certification of your electrical licenses.

**To Register:** call Jim Lang at 715-359-5682 or visit our website [www.pfmainc.com](http://www.pfmainc.com) (Central WI trade show section) or e-mail [lazepine@dwave.net](mailto:lazepine@dwave.net)

**Session One:** 9:30 a.m. Registration  
 10:00 a.m. - 12:00 noon Classroom  
 PFMA Member\* \$25.00 Non PFMA Member \$35.00

**Session Two:** 12:30 p.m. Registration  
 1:00 p.m. - 3:00 p.m Classroom  
 PFMA Member\* \$25.00 Non PFMA Member \$35.00

Both Sessions, including lunch buffet ticket:  
 PFMA Member\* \$40.00 Non PFMA Member \$50.00

For multiple attendees from the same company, please list all names attending and note address for confirmation notification.

**Send form with payment to:**  
 PFMA Inc. Of Central WI  
 2504 Wood Road, Mosinee, WI 54455

Please charge my  MasterCard  Visa:

Card #: \_\_\_\_\_

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Name \_\_\_\_\_

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Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Phone \_\_\_\_\_

Fax \_\_\_\_\_

Email \_\_\_\_\_

## Industry Articles

# Best Practices: Compressed Air Systems

By Timothy S. Dantoin, Energy Advisor, Focus on Energy

Running compressed air systems is frequently one of the most significant operating expenses in an industrial facility. The energy cost to operate an air compressor for one year can equal the capital cost of purchasing the air compressor. Optimizing existing compressed air systems can provide energy efficiency improvements in the 20 percent to 50 percent range.

By maximizing the efficiency of existing systems and making careful purchases, a company can save energy and money, reduce pollution and emissions, and operate more efficiently. Outlined here are the best practices for compressed air systems. These are the energy efficiency technologies, policies and practices for compressed air systems that the best in the industry are employing to economically reduce their energy costs.

### Checklist for Improvement

- A diagram of the compressed air system is posted showing all system components and their performance specifications.
- Meters are used that quantify electrical use, compressed air pressure throughout the distribution system, and volume of compressed air produced and used.
- Proper control systems are in place and, after any system change, system control is re-established.
- Equipment and systems are maintained for optimal performance.
- On a regular schedule, leaks are repaired, inappropriate uses are corrected and restrictions are repaired.

- An audit is conducted periodically to identify opportunities to improve performance and reduce the operational cost.
- System improvements are quantified and reported to management.
- Metered system performance is monitored to pursue continuous improvement.
- When more air is needed, maximizing the current system is fully explored before buying new equipment.
- When new air compressor equipment is needed, operational costs are factored in and the highest efficiency equipment that makes economic sense is purchased.

You can use these best practices as a benchmark to determine whether your organization is receiving the full benefit of savings opportunities. Be certain you know what your compressed air is costing and how efficiency improvements can result in savings that enhance the bottom line.

Focus on Energy is a public-private partnership offering energy information and services to energy utility customers throughout Wisconsin. These services are delivered by a group of firms contracted by the Wisconsin Department of Administration's Division of Energy. The goals of this program are to encourage energy efficiency and use of renewable energy, enhance the environment, and ensure the future supply of energy for Wisconsin. Focus on Energy services are available to the customers of the participating utilities which includes 85 percent of the homes, local governments, schools, farms and businesses in Wisconsin. The remaining 15 percent are customers of certain municipal utilities and rural electric cooperatives that have currently chosen not to participate in Focus on Energy. Those served by municipal utilities and cooperatives should check with their utility to determine if they are offering similar programs. For more information, visit [focusonenergy.com](http://focusonenergy.com) or call 800.762.7077.

## Pre-Registration Form for the PFMA Central Wisconsin 2003 Expo

To speed entry, type or print this form in advance and return it to the registration desk. This form must be completed.

Name \_\_\_\_\_

Company Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Phone ( ) \_\_\_\_\_ Fax ( ) \_\_\_\_\_

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Sponsored by PFMA Phone 715-359-5682

To have your badge waiting for you at the registration desk, mail this form to:

**PFMA Inc. of Central Wisconsin**  
**James L. Lang**  
**2504 Wood Road**  
**Mosinee, WI 54455**

Indicate your job function.

- |   |   |
|---|---|
| <input type="checkbox"/> Maintenance (Supervisor) | <input type="checkbox"/> Maintenance (Trades) |
| <input type="checkbox"/> Engineering (Other)      | <input type="checkbox"/> Quality              |
| <input type="checkbox"/> Owner/President          | <input type="checkbox"/> Safety               |
| <input type="checkbox"/> Engineering (Plant)      | <input type="checkbox"/> Production           |
| <input type="checkbox"/> Electrician              | <input type="checkbox"/> Sales                |
| <input type="checkbox"/> Purchasing               | <input type="checkbox"/> Other                |
| <input type="checkbox"/> Manager                  |   |

## Industry Articles

# Keep Your Manufacturing Equipment On-Line, Efficient and Accurate

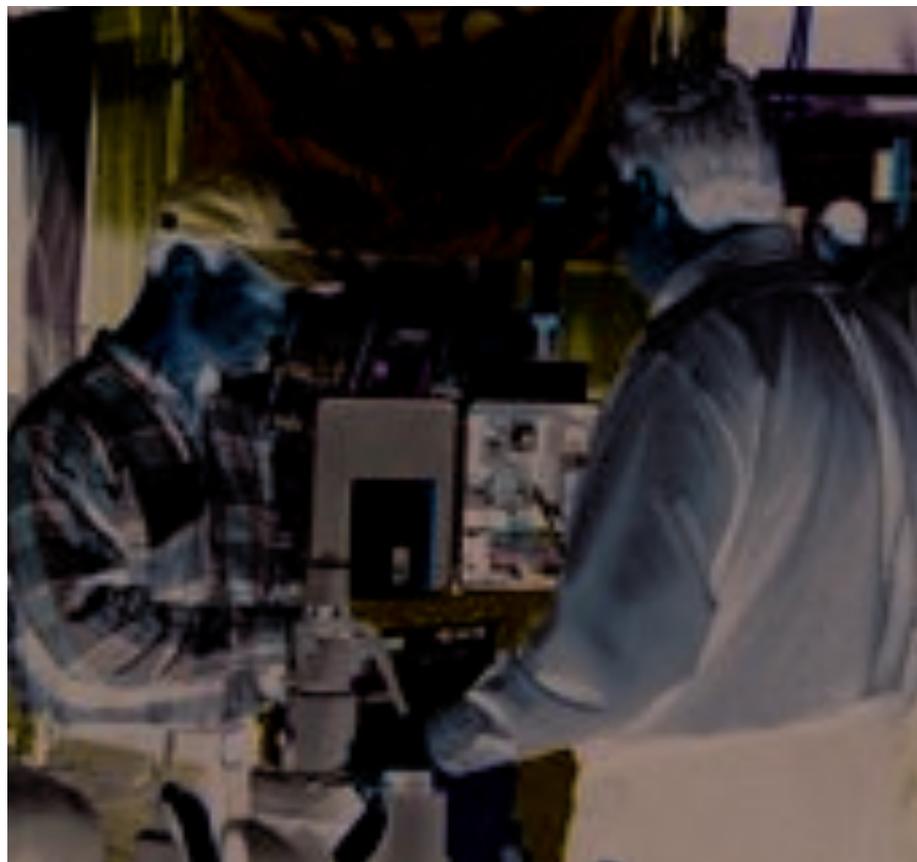
By Dan Rich, President, Wisconsin Industrial Machine Service, Inc.

Service is never more paramount than when it's needed. Whether it is a breakdown or planned outage, the goal is to keep your manufacturing equipment on-line, efficient and accurate to your tolerance requirements. Service should be looked at as the old three R's theory:

### REPAIR -- REBUILD -- RETROFIT

#### REPAIR

Breakdowns can create havoc with any manufacturing schedule. Whether the repair requires component replacement, part manufacturing or reconditioning, experienced technicians will ensure the quality and long-term repair of your machines. Lost production = Lost profits.



PFMA Expo

#### REBUILD

Rebuilding begins with analysis. All machines must be completely disassembled and inspected to assess damage or wear factors. This is done to determine tolerance variables, qualify component replacement needs or part remanufacturing, condition of motors, status of hydraulic systems and electrical controls, recondition or replace.

#### RETROFIT

By definition, is the "upgrade rebuilding" of the capacity, accuracy and repeatability of the machine. This is accomplished by upgrading the machine with new computerized controls and the latest mechanical technology available. Understand and analyze the benefits of a retrofit versus the purchase of a new machine.

Dan Rich can be reached at phone: 262-784-2300,  
Website: [www.wims-inc.com](http://www.wims-inc.com) and E-mail: [wims@wims-inc.com](mailto:wims@wims-inc.com).

## PFMA Connection Article and Photo Submissions

Gain greater recognition for your company's expertise in the marketplace.

### Submit an article and/or photo for publication!

PFMA Connection is looking for articles and photos for publication within upcoming issues. This is an excellent opportunity to showcase your objective knowledge of plant and facilities maintenance-related topics while earning valuable publicity for your company.

#### Content ideas can include (but are not limited to):

- Highlights of an industry trend
- Technical product applications
- Pending legislation and its impact on the field of maintenance
- Opinion column on an industrial topic
- Problem Solving/Trouble-shooting ideas

#### Guidelines:

Articles should be of an objective nature, minimum 250 words, maximum 500 words.

#### Please submit your articles on disk or e-mail for the editor's consideration to:

Stefanie Dow  
dow@execpc.com  
Or mail to: PFMA, 5105 Scott Lane, West Bend, WI 53095

Questions?  
Contact Stefanie Dow, phone: 262-695-7479, fax: 262-695-7518,  
e-mail: [dow@execpc.com](mailto:dow@execpc.com)  
Visit our website: [www.pfmainc.com](http://www.pfmainc.com)

## Haberdashery

Wear your PFMA pride on your sleeve!  
Purchase your PFMA clothing items now

PFMA polo shirts and blue denim shirts are on sale through haberdasher Bob Salentine, PFMA member.  
Order yours now!  
Call Bob at 262-798-5000.

We will also have an inventory of these items for sale at all PFMA membership meetings, trade shows and special events.

We accept cash, check, MasterCard and Visa.

# Membership Application



## Membership Application\*

The PFMA is a non-profit organization born to foster an exchange of information among maintenance professionals and provide technical information on emerging trends in plant and facility operations. A goal of the PFMA is to provide premier resource training, education, and other professional development skills that contribute to the ongoing success of a member's career or occupation.

**Plant & Facilities Maintenance Association, Inc.**  
**5105 Scott Lane, West Bend, WI 53095**  
**Phone: 262-644-6287 Fax: 262-644-6528**

\*PFMA Inc. membership committee must approve all applications

### Membership Type (Check one)

- In-Plant/Regular Membership  
Annual Dues:  
\$50.00/U.S. Funds
- Academic Membership  
Annual Dues:  
\$40.00/U.S. Funds
- Vendor/Affiliate Membership  
Annual Dues:  
\$60.00/U.S. Funds

### Chapters (Check one)

- Capitol Area (Madison)
- Central WI (Wausau)
- Marshland (Fond du Lac)
- Milwaukee Area
- Tri State Chapter (LaCrosse)

### Membership Description

Any person whose career or occupation is directly involved in plant or facilities maintenance, such as a maintenance supervisor, engineer, or accredited craftsperson.

Any person whose career or occupation is directly involved in the education and/or training of the maintenance professional or craftsperson.

Any person whose career or occupation supports a plant or facility maintenance function, such as sales, service, or consulting.

Mr.  Ms.  First Name \_\_\_\_\_ MI \_\_\_\_\_ Last Name \_\_\_\_\_

Company Name: \_\_\_\_\_

Position: \_\_\_\_\_

Job duties/Responsibilities \_\_\_\_\_

Company Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Phone Number: \_\_\_\_\_ Fax Number: \_\_\_\_\_ Email: \_\_\_\_\_

Home Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Phone Number: \_\_\_\_\_ Fax Number: \_\_\_\_\_ Email: \_\_\_\_\_

<b>Payment Method</b>	Check or Money Order <input type="checkbox"/>
	MasterCard <input type="checkbox"/> Visa <input type="checkbox"/> Expires: <input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/>
	<input type="text"/>
	Print Name on Card: _____
	Signature: _____ Date: _____

**Send this form and mail with payment to:**

PFMA, Inc.  
 5105 Scott Lane  
 West Bend, WI 53095

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