

### RELIABILITY®

### THINGS TO THINK ABOUT AND DO

THE 2013 EDITION

### HOW TO USE THE THINK ABOUT AND DO

#### ORIENTATION

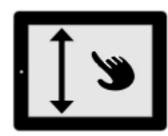
Read Things to Think About and Do (2013) in landscape orientation only.



Landscape

#### NAVIGATING THE MAGAZINE

Individual articles swipe vertically for all content related to that single article. To move to the next article, swipe horizontally.



Move within the article



Move to the next or previous article

#### Swipe to next article



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Website

#### SOCIAL LINK ICONS



YouTube



Blog

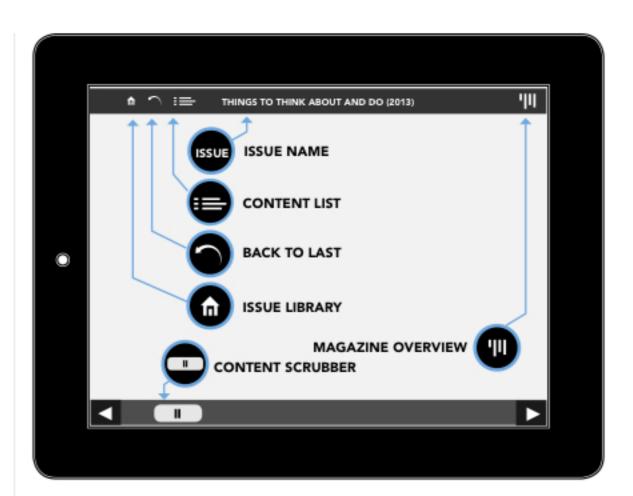


Twitter











#### HOME NAVIGATION BARS

Just tap on any non-interactive area on the screen and the bars will appear at the top and bottom of the screen. These tools are designed to navigate quickly around this app.



Big thoughts and small actions make a difference.

Here's what we're Working on and thinking about.

### What about you?

Feel free to share this... pass it along.
Things To Think About (and do) this year.



### Featuring

Tap on name to view.

David Williams Martin Tauber
Mike Fitch Abayomi Carmichael
Jeff Shiver Robert Kalwarowsky
Cliff Williams MARC YARLOTT Joe Swan
Bill Booth Terry Wireman Fred Schenkelberg
Tacoma Zach DEREK BURLEY Henry Ellmann
George Mahoney Boyd Helm Dieter Seidenthal
Gale Peterson Paul Lachance

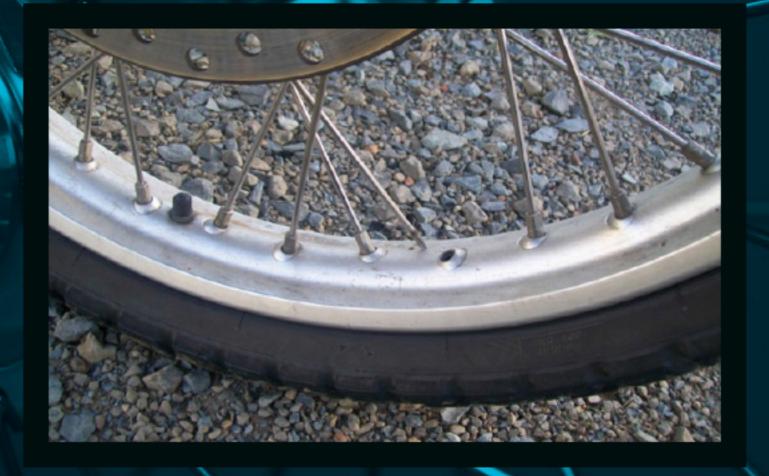


### AFFECTS PERFORMANCE

Terrence O'Hanlon

person, an object or a system has integrity when it is whole and complete. Think of the example of a bicycle wheel with missing spokes — it is not whole or complete. It will become out-of-round and will work less well and eventually stop working entirely. Performance is degraded. Integrity in a person means keeping your word and honoring your word by cleaning up the mess you made when you did not or could not keep your word. When a person lacks integrity they are not whole and complete. A person who lacks integrity will by extension not achieve the same performance of a person who is whole and complete.

Keep your word.





### FIND & FILL A GAPI

Tedd Weitzman

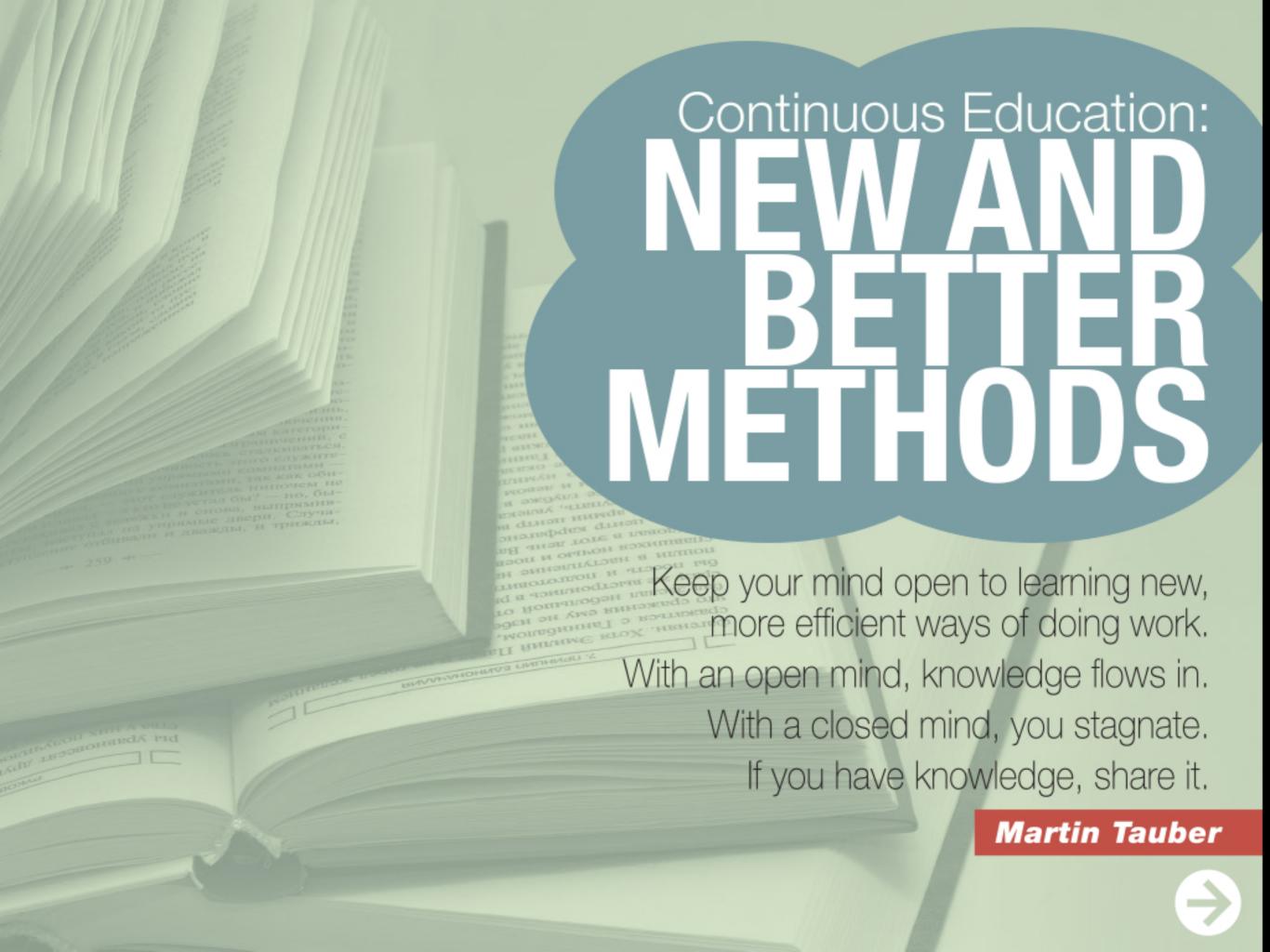
Success is dependent upon three things: **Process, Technology and People.** Find a process gap and fill it with a procedure by clearly defining the process and thoroughly documenting it with the procedure. Support it with technology, standards and guidelines. If you do, it is likely that people problems will vanish.

#### **David Williams**

Take the time to express and share your 'vision for the future.' Doing so will have a big impact on the people you are asking to join you in change, helping them see the big picture and removing a lot of anxiety. But remember to also include the first few steps towards the vision so it doesn't come across as an insurmountable task.

Share Your



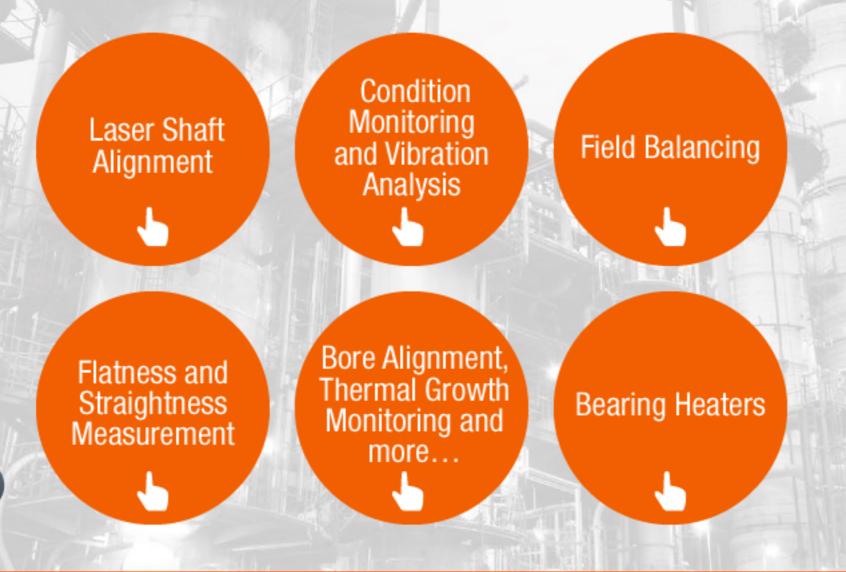




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A leading provider of Preventive, Predictive and Corrective Maintenance Solutions including machinery laser alignment, vibration analysis and balancing equipment as well as software, rentals, services and training.





### DOCUMENT SUCCESS

Mike Fitch

Condition monitoring efforts provide direct and positive contributions to key indicators like:

- ✓ Reduced downtime
- ✓ Reduced repair costs
- Reduced parts inventory
- ✓ Increased production capacity ....and more.

It is very important that we keep our management team apprised of the value they are getting from us, our tools and our training. Document your efforts and make your management team aware of the value your efforts and technologies provide.

### GOT A STRATEGY?

**Jeff Shiver** 

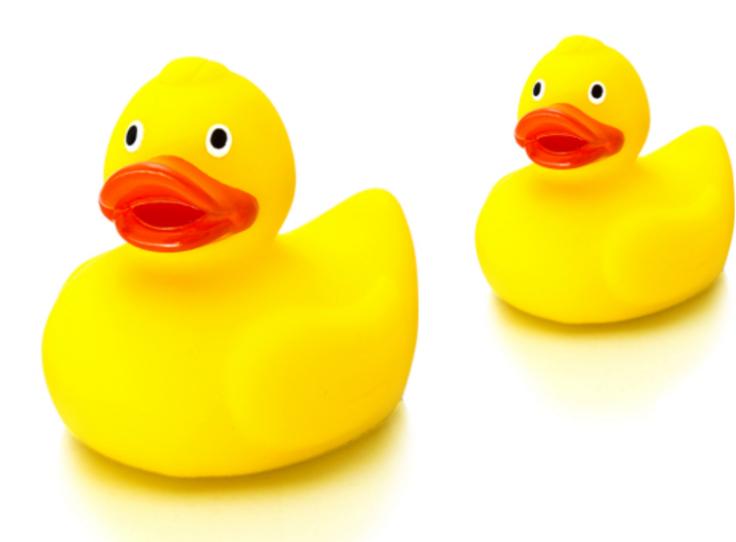
reating a proactive, reliability-centered culture is culture change. You can't do it by yourself. When others are involved, buy-in occurs more quickly. Want to make a difference? Create a project plan that lays out the strategy for change. Post it in public places throughout the work site and keep it updated. Work the plan one bite at a time, line

by line. Encourage people to ask questions about it and to help with the tasks. You might be surprised how far you get!



#### Abayomi Carmichael

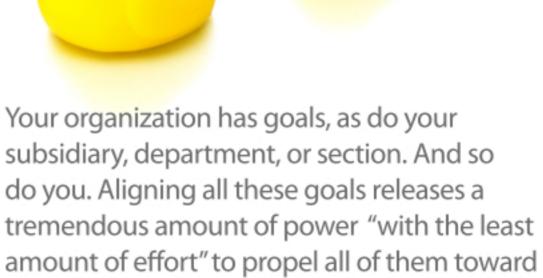
# Align







maximum success. Contemplate alignment.



Then do it.

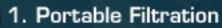




### Count on Us

You can count on Des-Case's unique contamination control products to help your company achieve a new level of performance in maintenance and reliability and to help keep your equipment investments lasting longer.







3. HydroGuard™ Hybrid Beather

4. VentGuard™ Hybrid **Breathers** 

5. Breather Adapters & Accessories

6. Standard Disposable **Breathers** 

7. Water Removal

8. Rebuildable Steel Breathers

9. Extreme Duty Disposable Breather

10. Non-Desiccant **Breathers** 

11. Filter Elements

12. Lubricant Storage & Lifteration

13. Dedicated Filtration



Protect and clean your industrial lubricants with our filtration systems-which are ideal tools to remediate contaminated systems, flush new equipment during commissioning, or periodically decontaminate systems that have inadequate on-board filtration to meet target cleanliness levels.

With industrial-duty pneumatic tires, sturdy frames, and customizable components, our filtration systems are flexible and ideal for easy maneuverability around plant floors.







## Plan for Bottom Line Reliability

veryone can get caught up in day-to-day operations, but it's important to have a long-term, strategic reliability plan. This sharpens and keeps the focus on bottom line profitability and gives direction to reliability energy. The strategic plan should evolve over time and always be aimed at highly visible, highly beneficial reliability projects.

Robert Kalwarowsky

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# PINPOINT RELIABILITY FUNCTIONS

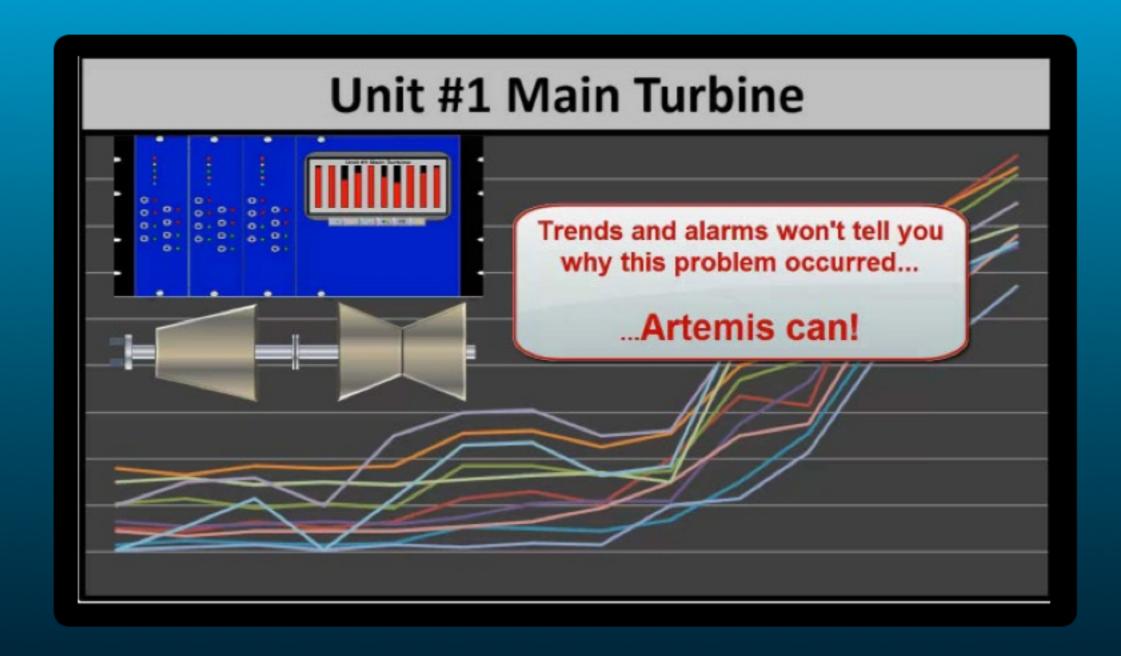


The old architectural engineering adage "Form follows function" can be applied to reliability.

Get your reliability functions of planning, predictive maintenance (PdM), preventive maintenance (PM) and performance down and your profit will always follow.





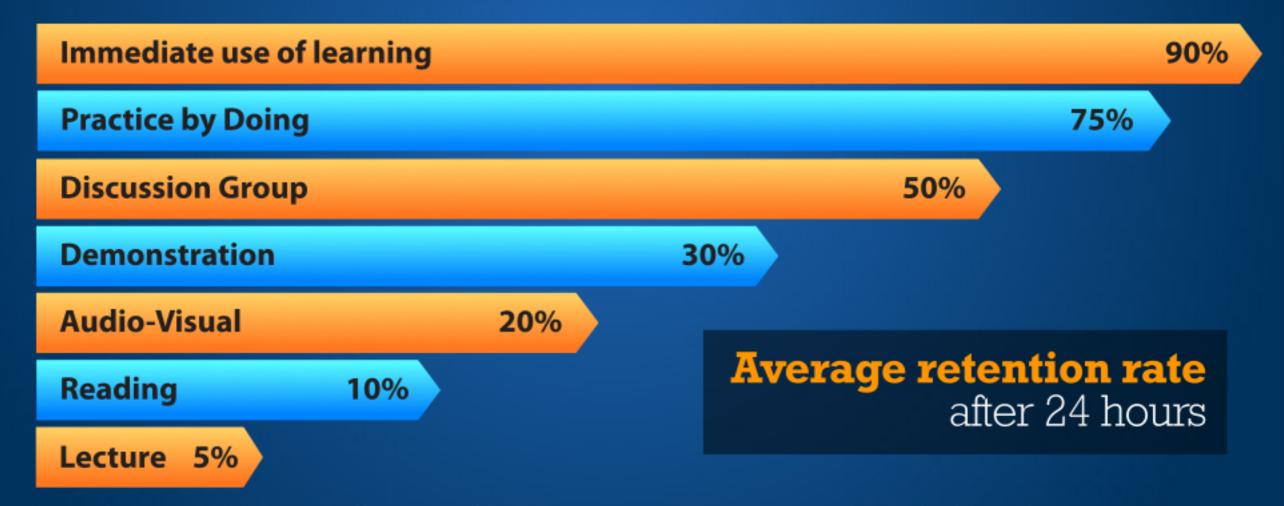




### Learn Effectively Dr. Bill Booth

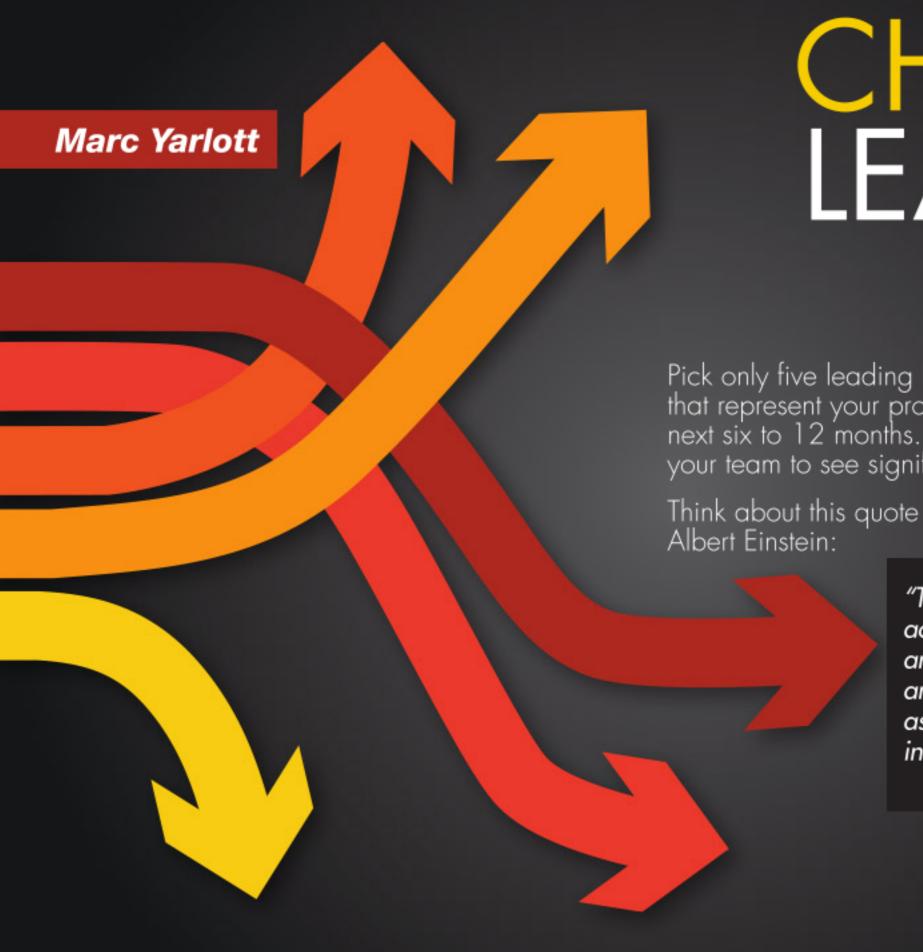
Lectures continue to be the most prevalent teaching mode in education and training in American business and industry classrooms despite overwhelming evidence that it produces the lowest degree of retention for most learners.





To make our training more effective and long lasting, managers, supervisors and others who conduct classes must learn and practice appropriate learning/training methodology. We have been marginally effective in the classroom for far too long.





### CHOOSE LEADING **KPIs**

Pick only five leading key performance indicators (KPIs) that represent your process improvement goals for the next six to 12 months. Track and celebrate them with your team to see significant organizational change.

Think about this quote from

"The main source of all technological achievements is the divine curiosity and the playful drive of the tinkering and thoughtful researcher, as much as it is the creative imagination of the inventor."

Einstein, 1930





Terry Wireman

With new ISO asset management standards soon to be finalized, will maintenance reliability professionals finally get the recognition that has escaped them for decades? Maintenance reliability professionals should properly educate themselves about asset management by reading articles, attending conferences and researching online. Becoming informed is the best way to ensure the maximum benefit of adopting the new standards.





#### Assessment

Got a strategy? We integrate the current state assessment, gap analysis against the Best Practices and facilitate the development of a customized plan of improvement into a single process.

The outcome? A strategic roadmap combining education and coaching to ensure your success, one step at a time.













**Boyd Helm** 

### WHAT IF

It is 8 a.m. on Friday and the weekend plan has been communicated. BUT, production has just decided to run over the weekend. Do your technicians know how to adapt to a change in schedule? Do they know which PMs are critical or what tasks can be rescheduled to maintain your reliability program?





#### **Derek Burley**

s the new standard nears completion, start compiling a flexible road map towards ISO55000 compliance.

As the economy shows encouraging signs of recovery, let's get ahead of the game and focus on the value generated by asset management!





# WHY MAKE THINGS SO DIFFICULT?

#### Gale Petersen

TAP

STRATEGY

Your business has a **STRATEGY** and deals with a complex and diverse set of **STAKEHOLDERS**.

**ASSETS** 

You must manage **ASSETS** and **FACILITIES** in distributed geographic **LOCATIONS**.

**SYSTEMS** 

There are **SYSTEMS** to help you out.

BUDGET

You must manage to a **BUDGET** and have **PROCESSES** to follow according to your business **REQUIREMENTS**.

METRICS

You have **METRICS** to measure your success.

This complex, day-to-day environment is managed by **PEOPLE**.

**DIFFICULT?** 

This is your world. This is our world. Why make things so difficult?

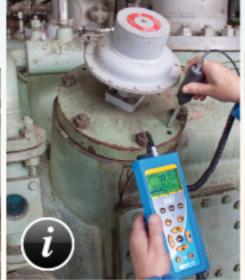




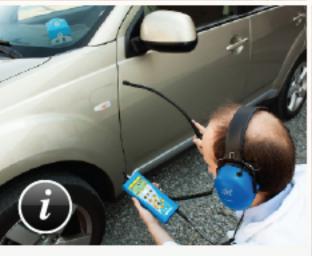
#### **SDT** Ultrasound Solutions

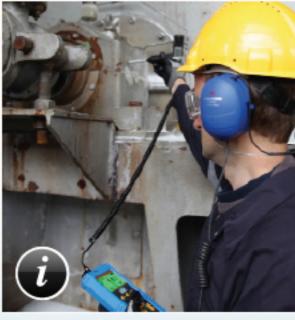


















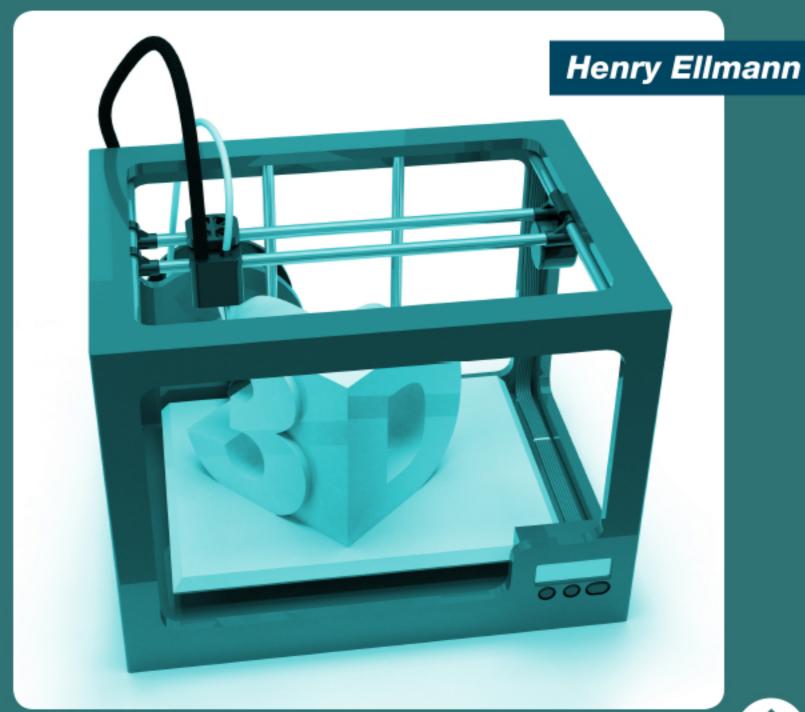




### REDUCE DOMNTIME WITH 3D PRINTERS

pare parts now can be produced faster, cheaper and safer on 3D printers. The process consists of adding thin, successive layers of material to build up a three-dimensional object based on a digital blueprint. Costs are decreasing rapidly, allowing 3D printers to revolutionize the entire spare parts procurement procedures.

Shorter lead time to acquire spare parts will reduce inventories, downtime and costs, thus improving the bottom line!





#### **George Mahoney**





Spend less time on the unimportant, so you can spend more time on what matters.

Just because you spend a lot of time on something, doesn't mean it is important or that you shouldn't stop doing it.

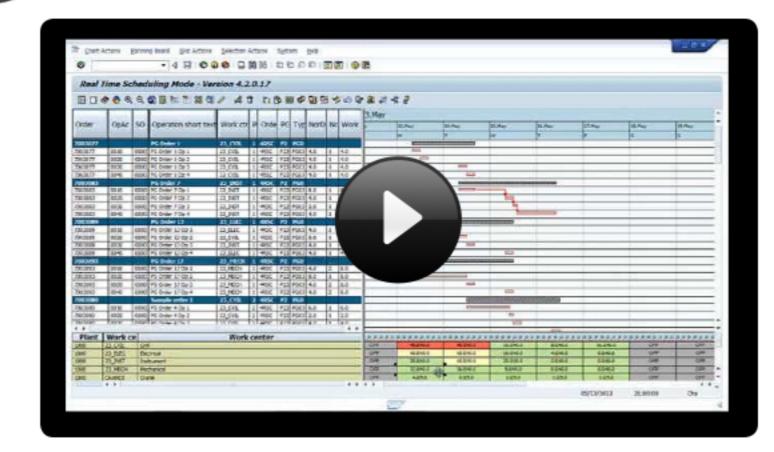


### KNOWLEDGE: PASS IT ON

any Baby Boomers occupy key positions in plant maintenance and operations in all major industries. When they retire, they will take with them an enormous wealth of information and knowledge, which many are calling "the huge knowledge gap." Let's make sure replacements are trained and knowledge is transferred. Baby Boomers can serve as consultants while replacements are fully entrenched. Job sharing or flextime can encourage Baby Boomers to stay in the workplace and help close the gap.







#### **Scheduling**

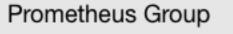
- Effective plant maintenance is the foundation of an asset management strategy.
- Our best-in-class planning and scheduling solutions help increase availability, reduce costs, and manage risk.
- Leaders in oil & gas, chemical and utilities trust us to increase productivity, retain institutional knowledge and facilitate cross-functional collaboration.







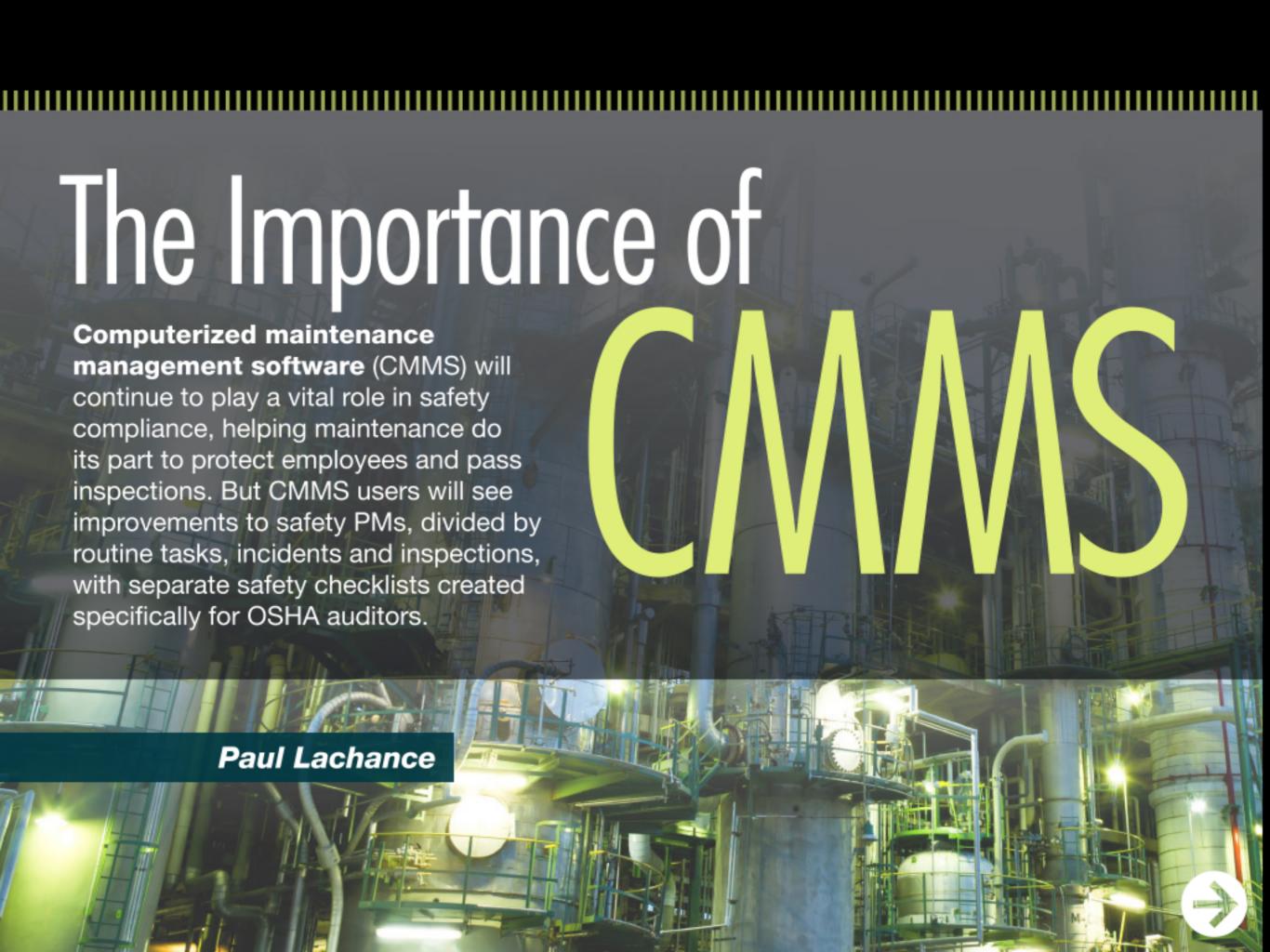


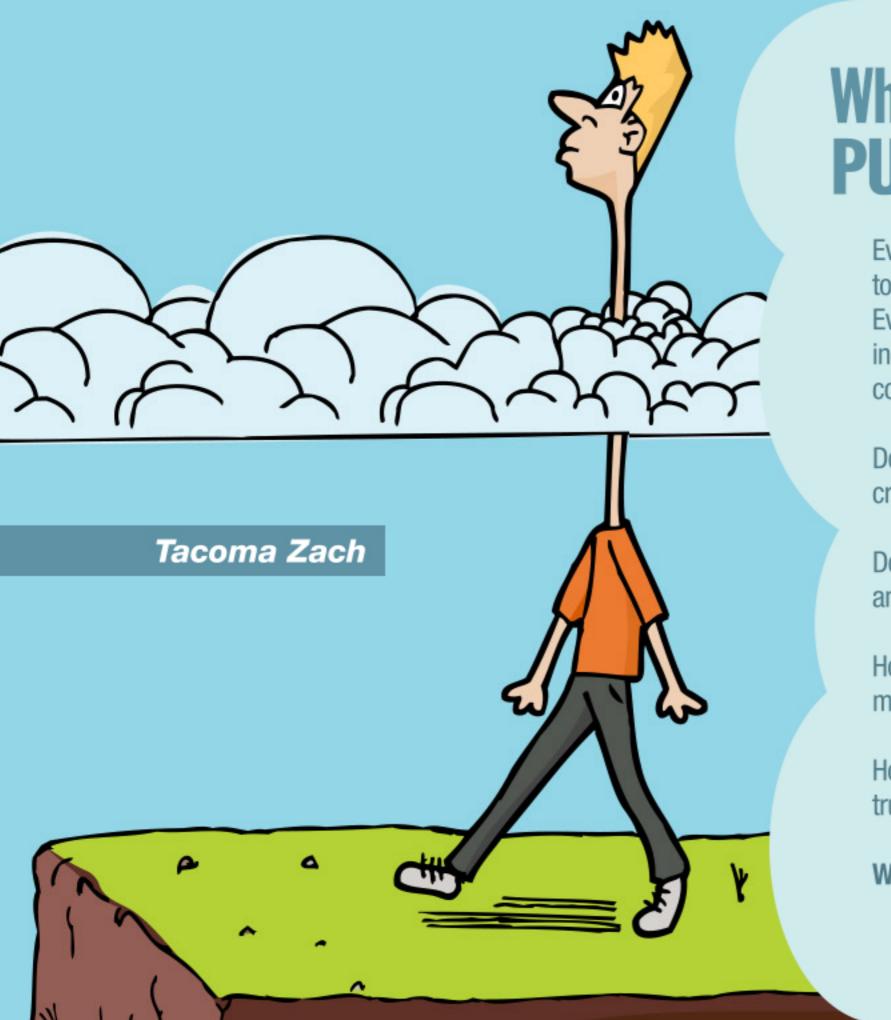


### DETERMINE YOUR VALUE

Fred Schenkelberg

Business managers speak in terms of money. Profit, expenses, investments and return on investment (ROI) are common business concepts, but they are not commonly used by maintenance reliability professionals. By estimating and measuring the value of every task, maintenance reliability professionals will justify upfront costs and build credibility in their program.





### What You Don't Know PUTS YOU AT RISK

Even the best laid plans can go awry due to a lack of understanding or discovery. Every asset management program is incomplete without an accurate and comprehensive risk analysis.

Do you really know what systems are critical?

Do you know what really puts you at risk and in what ways?

How do you know you are spending your money in the most efficient way?

How do you know you are working on the truly important maintenance tasks?

What you don't know puts you at risk.



### Credits

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