

## Things to think about and do

THE 2014 EDITION

#### **HOW TO USE** THINGS TO THINK ABOUT AND DO

#### ORIENTATION

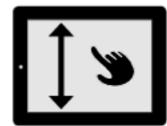
Read Things to Think About and Do (2014) in landscape orientation only.



Landscape

#### NAVIGATING THE MAGAZINE

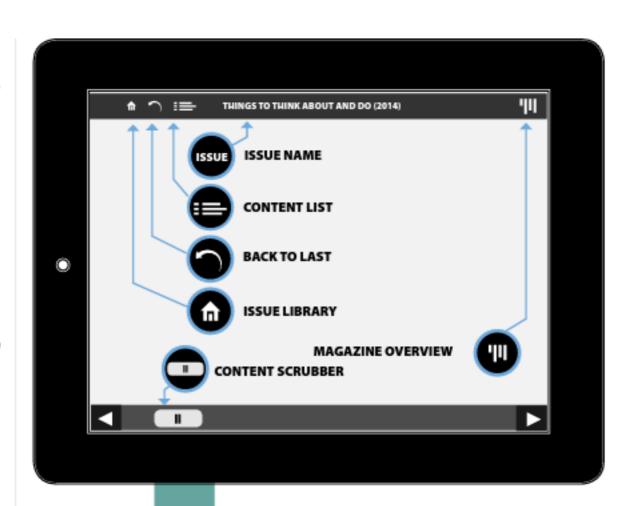
Individual articles swipe vertically for all content related to that single article. To move to the next article, swipe horizontally.



Move within the article



Move to the next or previous article



#### **SOCIAL LINK ICONS**



Tap for

More





Website



YouTube



Blog Twitter



Facebook LinkedIn



#### **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.

## Things to think about and do

Doug Plucknette James Reyes-Picknell

**Heinz Bloch** 

**Terry Wireman** 

**Tacoma Zach** 

**George Williams** 

**Dean Lofall** 

**Cliff Williams** 

**Derek Burley** 

**Gary Helm** 

**Martin Tauber** 

**George Mahoney** 

**Terrence O'Hanlon** 

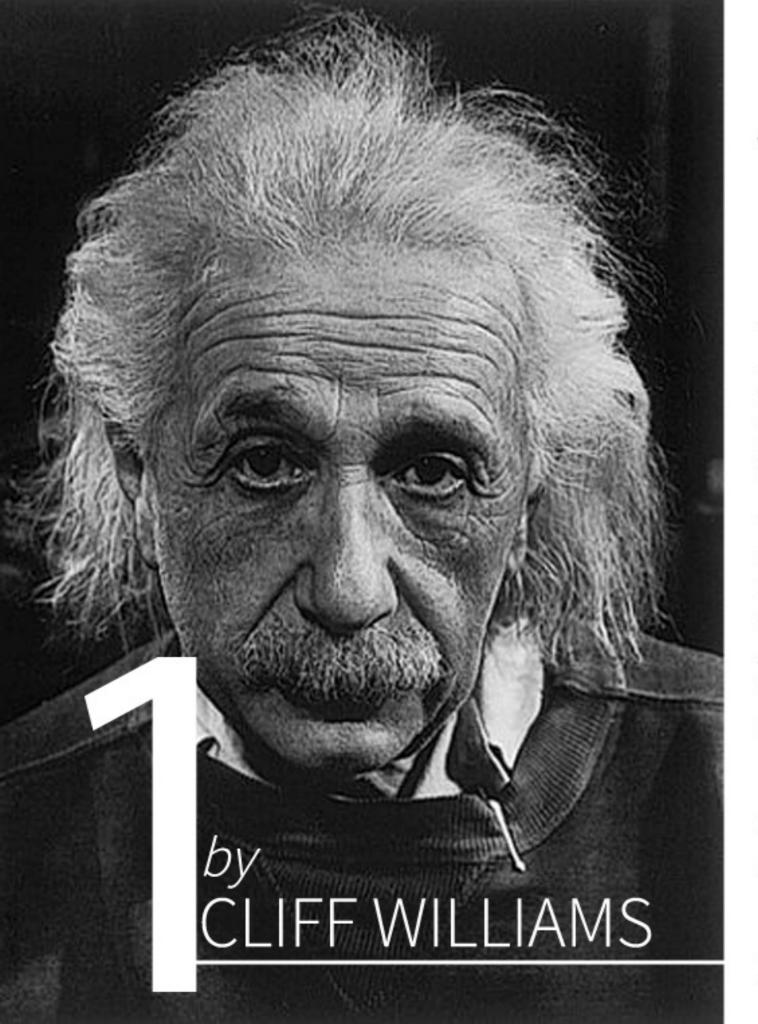
**Jason Tranter** 

**Ron Moore** 

**Thomas Smith** 

**Winston Ledet** 





## IF AT FIRST YOU DON'T SUCCEED...

...try, try again. Or so we have been told. Too many times I've seen people continue to try to solve a problem using the same approach and failing time after time.

So does the mantra "try, try again" make sense?

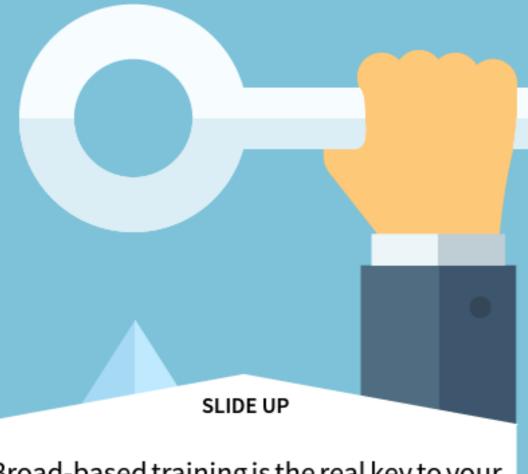
Surely a better mantra should be: If at first you don't succeed... figure out why and do something about it.

Access to alternative solutions can be endless: look up a web site, start a blog, call someone on Skype or e-mail someone the other side of the world.

"The definition of insanity is doing the same thing over and over again and expecting different results."

Albert Einstein

## DON'T OVERLOOK THE IMPORTANCE OF TRAINING



Broad-based training is the real key to your program's success. Take the time (and effort) to brief management, train your reliability leadership, develop precision maintenance skills and remove resistance to change with awareness training for the plant floor.



# USETHE

Blend together component methods from Uptime Elements, ISO55000, RCM, RCA and other reliability tools into a balanced and effective approach to maintenance & reliability.

Combine some of the best parts of current methodologies, enabling us all to get the best, cost-effective and robust reliability programs in place while addressing environmental and safety issues.

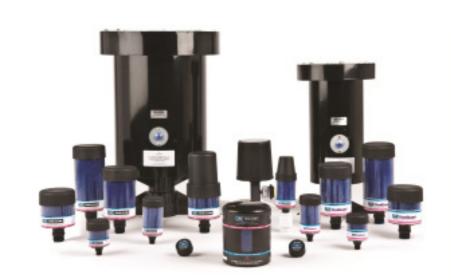
by DEREK BURLEY



#### 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.





#### **BREATHERS**

Des-Case desiccant breathers incorporate moisture adsorbent and high capture-efficiency filters to protect equipment headspace from dirt and water particles, reducing production downtime and costly equipment repairs.

With an array of models and sizes to choose from, our desiccant breathers have been designed to work in a wide variety of industries and applications.



## INVESTED IN THE IMPORTANT THINGS

Invest some of your time in building relationships and have some real conversations with people about hunting, fishing, high school sports and scouting.

#### Become an old-fashioned boss!

The guy who plays on a work softball team

Who invites his crew and their families to his house for a BBQ

The one who takes one night a week to watch other people's kids play sports or helps build a wheel chair ramp for an employee's elderly parents

Who can write a heartfelt letter of recommendation for someone's child who wants to attend West Point



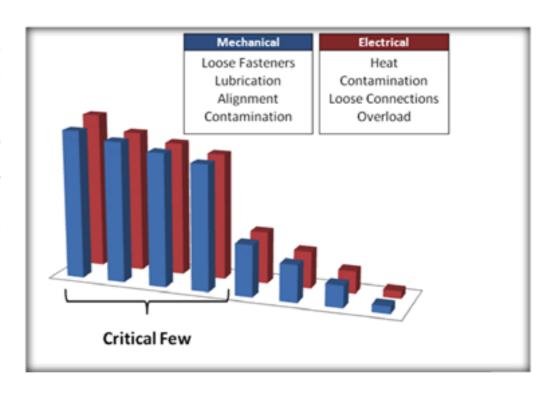
## Inproving Reliability Without Data



### Use What We Already Know

Many industries have studied failures for decades. A "critical few" comprise the large majority of failure causes.

Study, analyze and fix your work processes that control and manage these known high Pareto causes and your breakdowns will mysteriously reduce. Aggressively controlling your work processes for these causes will quickly produce the greatest reward in reducing your equipment losses.



# EALE FROM THE FILL OF THE FILL

• Don't make decisions from your office.

 Work with the people getting their hands dirty... while they are getting their hands dirty.

• **Experience** their frustration so you can remove the obstacles stopping their productivity.

*by*GEORGE MAHONEY

### IMPROVE

### ASSET

GEORGE WILLIAMS

Rank assets by failure rate, cost of corrective, and cost of PM/PDM sum rankings and attack lowest total number.

	Asset	Most Reactive	Cost by Corrective	Cost of PM/PDM	Total Rank
	10001	100	20	520	640
-	10002	25	8	7	40
	10003	436	546	276	1258
	10004	398	276	112	786
	10005	78	1	389	468
	10006	20	143	472	635
	10007	1.00	242	1	500

### DON'T SETTLE





#### Don't settle for:

- Professionals that abandon or fall short on their promises.
   Violations put human lives at risk and cannot be allowed.
- Consultant-conceived generalities.
   Insist on details that add real value to the reliability profession.
- Deviations from best practices.
   Normalization of deviance is sure to follow if you allow deviations to persist or propagate. Own your responsibilities and never shift blame on others.

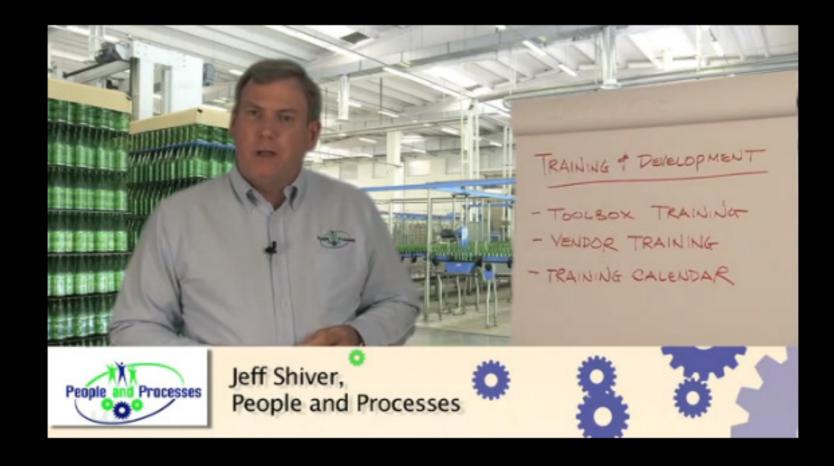
## Maintenance and Reliability Consulting and Education



People and Processes, Inc. is an education and consulting services firm dedicated to Maintenance and Operations enhancement. We help our manufacturing and facilities clients by utilizing industry recognized best practices and processes in a holistic site approach.



#### Your productivity experts.





## DON'T TAKE CHANCES

by JAMES REYES-PICKNELL

Don't dress for comfort, dress for a fall-because you never know when a fall might happen.

#### SLIDE UP

Personal Protective Equipment (PPE) reduces consequences, now lower the risks:

- ✓ Know what you are doing.
- ✓ Know how to do it right.
- ✓ Practice so you can do it well every time.
- Keep your eye on where you are going.
- ✓ Keep your equipment in top shape.
- ✓ Don't work distracted.
- Don't work impaired.

## DEFECT ELIMINATION AND CULTURE CHANGE

by JASON TRANTER

Improving reliability is not rocket science, but it does require a focus on two key issues: defect elimination and culture change.

Addressing common root causes, and the human factors, is required to truly transform the culture, practices and thus the profitability of the plant.

defect elimination

culture change

profitability

root causes

condition based maintenance

### PRESERVING AND PASSING ON KNOWLEDGE

### by MARTIN TAUBER

Good and accurate procedural documentation is essential for the preservation of optimum settings and mechanical procedures developed over the years. We need to pass on this knowledge to the upcoming generation of technicians if we wish to be competitive in the world market.



### Value and Invest in Your Human Assets and Intellectual Capital







At SEC of America sensors are not only our business, they're also our passion. We see vibration sensors as a vital tool in keeping your machines healthy and running at peak performance. That's why our singular mission is to ensure that each of our sensors that touch your machine are the highest quality and most reliable in the industry.

Our case-mount sensors are just one example of our commitment to supporting your operation with right-sized, rugged, and affordable sensor solutions.

- Accelerometers
  - Industrial: Top-exit, side-exit
  - Integral Cable: Standard and Submersible
  - Velocity-output
  - Intrinsically Safe
- Control-integrated Protection (CiP)
  - Loop-powered 4-20mA output
  - Simple, direct integration to PLC or DCS
- Transmitters and Accessories
  - Wide range of transmitters and signal conditioners
  - Relay modules and power pupplies
  - Digital integration modules (Modbus and others)
  - Wide variety of cables and installation accessories

SEC of America offers a comprehensive array of Machine Condition Monitoring products for equipment ranging from pumps and motors to mission-critical turbines and compressors. Our state-of-the-art solutions include:

- VM-5 & VM-7: API-670 Machinery Protection Systems
- Artemis Intelligent Protection and Diagnostic Monitor
- Axiom Online Transient Analysis Software
- h-Vector Portable Transient Diagnostic System
- FK-series Proximity Probe System: API-670 compliant
- CM-series Case-mount Sensors
- Complete Turbine Supervisory Instrumentation (TSI) System
- WK-series Non-contact Vibration Transmitters
- LS-series LVDT
- Onsite and Remote Analysis Services

#### SEC of America, Inc.

807 East Main Street Suite 2-250 Durham, NC 27701 p 919.877.586.5690 info@sec-america.com www.sec-america.com Website







### DECISION SUPPORT

Do the right thing, in the right order, for the right reasons, to get the right result.

#### by TACOMA ZACH

Quality decisions depend on having quality information and truly knowing where your limited resources have to be applied first.

Use decision support tools and processes to intelligently direct your AM efforts to get the best results out of your programs.

## THE POWER OF USING DECLARATION by TERRENCE O'HANLON

Action: Create a declaration of reliability so you and your team can live into the future it creates

- The future is created by language
- Declaration is a fundamental form of language
- The United States of America was created in one single instant by declaration – that was written in 17 days, signed by just 56 people and was opposed by Kind George III, the man with much more financial and military power at the time
- We live into the freedom and liberty created by that declaration 236 years later

### ISO55000 EDUCATION AND IMPLEMENTATIONS

SLIDE OUT

The journey to asset management will begin for many companies with the publication of ISO55000 this year.

Companies that have been successful with their asset management strategies will now be writing and preparing conference presentations about these experiences.

There are educational resources available – let's all get started and help our companies be successful with asset management and successful adoption of ISO55000.

WÍREMAN



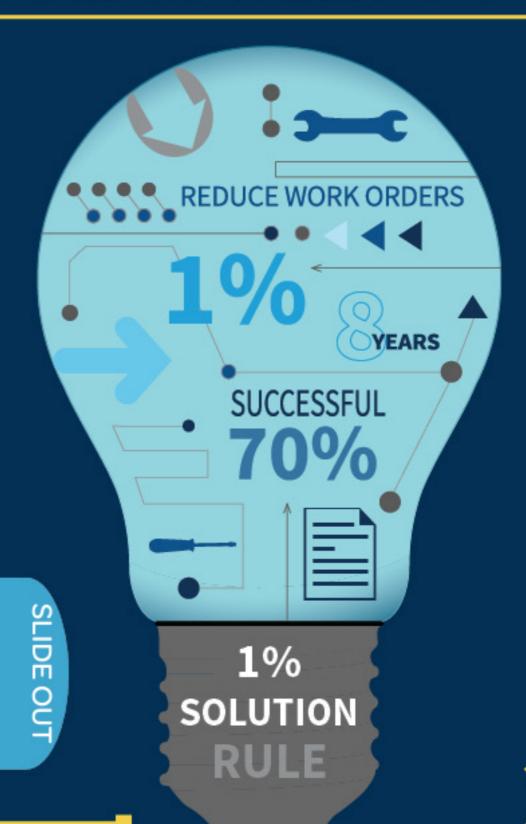
### THE 1% SOLUTION RULE

by WINSTON LEDET

One site reduced the number of work orders by 70% in 8 years using this 1% solution.

1%

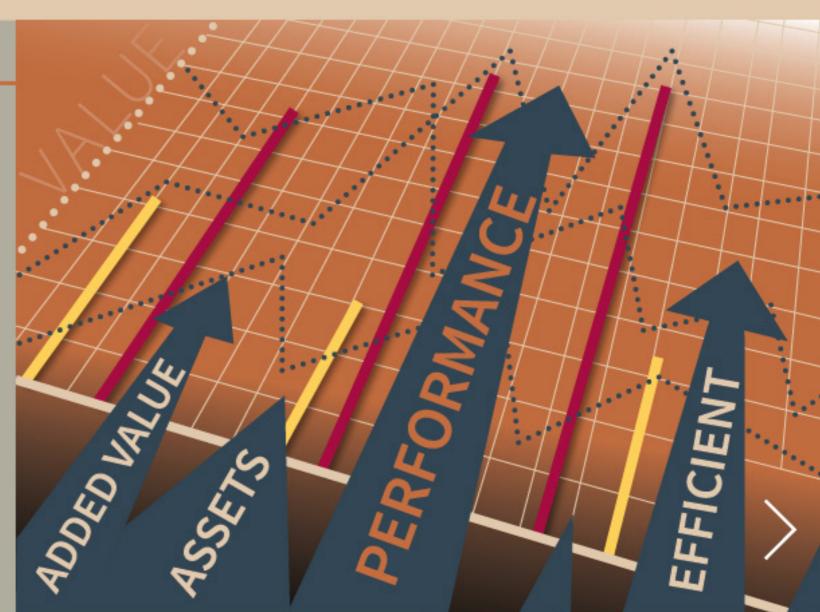
To be successful, every site must conduct one percent of their work orders as Defect Elimination Work orders, every single week.



## UNDERSTAND THE VALUE OF YOUR ASSETS

by THOMAS SMITH

Maintenance professionals tend to focus on how well an asset performs, rather than on how it adds value to the organization. Though we might not like to think of it, assets are bought, sold or traded continually and the machinery under our care might provide the most value in someone else's hands. Or the ground under the asset may be more valuable than the asset itself.



### Credits

All author contributions generously given by their creators.

Conceived by **Terrence O'Hanlon,** CMRP, Publisher, Reliabilityweb.com.

Designed by **Andrea Brito, Jocelyn Brown,** and **Apolonia Lemus**Produced by Reliabilityweb.com®.

## Make something happen. We need your help.

(Post this, e-mail it, tweet it—share it anyway you can.)

Spread it freely. Add your own idea.

But please don't sell this content or change any of the entries.

Do work that matters.

Join many of the contributors at an upcoming conference. Visit www.maintenanceconference.com for details.

© 2014 Reliabilityweb.com. This document may be freely distributed by e-mail (no spamming, please) or posted on the web with no registration required. Must be presented in its entirety. For those interested in contributing to 2015's THINGS TO THINK ABOUT AND DO and for special permissions, please send your request to crm@reliabilityweb.com