The Happiness Factor; Happy Employees are Safer Employees

"Culture eats strategy for breakfast" **Dr. Peter F. Drucker** I would expand his words to include, "Especially when it comes/ to Safety!"

8:00 – 9:00 Patrick Terrance Ragan

The Happiness Factor; Happy Employees are Safer Employees

Cultures are foundations on which good and poor safety experiences are built. This presentation is a discussion of the impact of culture in general and on safety specifically. With a focus on how to benefit from positive (happy) culture and improve on all cultures. Based on September 2019 PSJ paper of the same title.

Speaker Patrick Terrance Ragan

Patrick T. Ragan, CSP, M.B.A., has more than 40 years' experience in quality, health, safety and environment positions. He is the current executive member at Ragan Safety Services, LLC. Previously, he served as Vice President of Quality, Health, Safety and Environment at Bayer. Ragan has coauthored and contributed to eight books and numerous published articles. He is a professional member of ASSP and currently President of the North Carolina Chapter.

2020 Region VI PDC schedule

My Virtual Presentation

- A PDF file of the ASSP September 2019 Professional Safety Journal article is included with the attachments to this presentation
- My good friend and coauthor of the PSJ article Brooks Carder has helped in this presentation with the addition of ideas from similar papers he has written. All attached
 - The Happiness Effect; New evidence suggests employees' emotions are directly correlated to their performance
 - A Positive Approach; Ditch the old methods of change management and give positive psychology a try
 - A Lesson From George Washington



SAFETY CULTURE Peer-Reviewed

assp.org SEPTEMBER 2019 PROFESSIONAL SAFETY PSJ 35

Δ Happy Employees Are Safer Employees

By Patrick T. Ragan and Brooks Carder

Key Takeaways

- The happiness factor is real, and it really works.
- Cognitive / Positive psychology has supplanted behaviorism as the dominant field in scientific psychology.
- Employee well-being and happiness can be measured and used to provide direction and support continuous improvement of safety efforts.

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It is not a new idea

One inherits a right to enjoy their work. Good management helps to nurture and preserve these positive, innate, attributes of people.

- W. Edwards Deming

It is not a new idea

A Captain cannot be too careful of the company the state has committed to his charge. He must pay the greatest attention to the health of his men, His first object should be, to gain the love of his men, by treating them with every possible kindness and humanity...... The attachment that arises from this kind of attentionis almost inconceivable; it will moreover be the means of preserving the lives of many valuable men.

Baron Friedrich von Steuben

von Steuben recognized that officers had to command and not simply demand the respect and obedience of their troops.

endorsed by Congress on March 29, 1779

Written at the behest of George Washington

In both Deming and von Steuben's cases their theories have strong anecdotal support.

Deming brought Japan's industry back from the devastation of war.

Von Streuben was arguably a key contributor to the creation of a new nation.

Deming also said, "In God we trust, all others bring data" More on that later.

If people are happier at their work do they make better decisions?

Do these better decisions translate to fewer accidents?

Happy employees who are satisfied with their jobs are;

- more engaged,
- more creative,
- more likely to do superior work,
- are less likely to leave the organization,
- are more likely to follow rules/procedures
- more likely to encourage others to follow rules/procedures
- are more willing to speak up when they feel something is not right or safe

Example of Happiness (positive feelings) impact on decision making; possible mechanism by which happiness improves performance;

Remote Association Test: RAT A fundamental test of creativity

To take the test you are presented with three words and asked to come up with a fourth word that is associated with all three. For example;

Cottage, Swiss, Cake.

This is an easy one. You probably came up with **cheese** rather quickly.

Try a harder one,

- Dive, Light, Rocket.
- Only about 20% of subjects came up with the correct answer in 15 seconds.
- The answer is **sky**.



Here comes the interesting part:

- Subjects appear to know there is a match before they know what it is.
- When asked to respond within two seconds they were 12% better than chance at predicting whether there is a solution or not.
- This is intuition in action.

There is more



In an altered test, before competing an intuition index subjects were made either happy or sad by being asked to think about happy events in their life or sad ones.

Happy subjects more than doubled their intuition index, while sad subjects totally lost the ability to intuit in this

test.

POSITIVE, NEGATIVE & NEUTRAL SUBJECTS

	Correctly identified coherence	Incorrectly identified coherence	Probability
Positive mood	62%	31%	0.05
Neutral	61%	48%	Not significant
Negative mood	53%	50%	0.001

Intuition is important to creativity and likely important to safety as well.

How many incidents have you investigated where a person involved conveyed, they felt something was wrong they just didn't stop to figure out what.



Teach people to listen to that little voice that tells them

- that motor sounds a little off, Ins
- the color of the effluent is a little darker, WV
- an unusual demeanor of a coworker, Chi

Port

their own mood is off

U.S. Army 2008 Example:

Problems observed in many soldiers after deployment—suicide, drug abuse, posttraumatic stress disorder (PTSD), panic, depression and divorce

Applying positive psychology Seligman recomended that resilience training could insulate more soldiers from the negative effect. Basically, a form of optimism (Happiness) training that teaches cognitive coping mechanisms.

U.S. Army Example:

The eventual effect on deployed troops has been profound.

For soldiers who received the resilience training before deployment, the subsequent diagnosis rates of PTSD, anxiety and depression were reduced, and the rate of substance abuse was halved.

Master-level resilience training has been given to more than 40,000 trainers in the Army.

Straight up safety example from Pat Ragan and Brooks Carder;

- Since 1993 over 100,000 employees surveyed in a variety of companies.
- The surveys are highly reliable, and all of the questions are valid, meaning they correlate with safety performance.
- Some of the questions on our survey have no explicit relationship to safety but an obvious relationship to employee morale.

Straight up safety example;

- Following are 3 example questions from our initial validation study
- These and other similar questions are strong influencers on the culture of these sites and the company
- The questions speak to respect, trust and confidence in the company. All strong elements in employee satisfaction/happiness in the workplace

Straight up safety example; VALIDATION STUDY DATA: WEAK VS. STRONG SITES

Job satisfaction factor	Strong sites % yes	Weak sites % yes	<i>p</i> value Yates corrected chi- square
Supervisors treat subordinates with respect	93%	83%	0.030
Managers treat subordinates with respect	91%	76%	0.002
Employees trust the information that management provides about the company	95%	66%	0.000

Not Convinced?

Ask yourself if you have ever been involved with a group that "Clicked" in a way that they just got things done?

Going to playoffs. 1972

- Sports
- Task team
- Volunteer effort
- Student Study group
- Professional group
- Church group

Happinessfoctor It works on an individual basis too.

- Fixed a faucet
- Read a story to your kids
- varisit! • Finish a 20 mile bike ride

How did it feel.

Key Takeaways

• The happiness factor is real, and it really works.

 Cognitive / Positive psychology has supplanted behaviorism as the dominant field in scientific psychology.

 Employee well-being and happiness can be measured and used to provide direction and support continuous improvement of safety efforts.

Cognitive / Positive psychology has supplanted behaviorism as the dominant field in scientific psychology.

Behaviorism

Skinner Pegion Training

Dinner Conversation



Cognitive/ Positive psychology has supplanted behaviorism as the dominant field in scientific psychology.

"While behaviorism has been largely abandoned in psychology, it continues to be the basis of much strategy in business.

Individuals and groups are still viewed as machines that can be adjusted simply by changing contingencies. Reward them for this and they will do that."



Brooks Carder, PhD

Principal Carder and Associates

LLC

Cognitive/ Positive psychology has supplanted behaviorism as the dominant field in scientific psychology

Because it needs to be said;

- One of the failings of BBS was that some companies felt they could do behavior based safety and ease off on traditional safety efforts.
- If it works at all it only works for a short time
- much of the success BBS has had is more related to the Hawthorne effect than behavioral science.
- It has a real weakness in dealing with High Consequence Low Frequency events

Cognitive/ Positive psychology has become dominant field in scientific psychology.



positive psychology, very simply the study of psychological wellness, rather than illness.

Lawrence M. Miller

Cognitive / positive psychology has become dominant field in scientific psychology.



"positive psychology explores ways to help people flourish rather than simply function.

This view provides rich possibilities for executives who want to improve organization performance by encouraging, promoting, and expanding human potential.

Applying positive psychology can have a direct effect on employee and customer engagement and loyalty—and thus the bottom sinerry Donald O. Clifton, Ph.D. Martin Seligman, Ph.D., and Mihaly Csikszentmihalyi, Ph.D.,

Key Takeaways

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 Employee well-being and happiness can be measured and used to provide direction and support continuous improvement of safety efforts.

Because it needs to be said;

The Happiness Factor can help all organizations, but Trust is a hard thing to build if employees see;

- maintenance slipping,
- relaxing skill needs safety training,
- hazards going uncorrected,
- overtime being piled on in excess,
- people are being reprimanded for reporting safety issues or
- other base line safety needs not being taken care of.

- Paying attention to the happiness is not just reacting to noticing a negative.
- It is proactively an important step to take you to a higher level of safety performance.
- Improving happiness is important to achieve a culture in which people want to
 - use safeguards,
 - follow training,
 - understand and maintain process design.

- A culture in which PPE is worn and rules followed because people believe it is the right thing to do, not just to satisfy their boss.
- A belief-based safety culture is much More reliable and better than a rule-based safety culture.
- A belief-based culture is one that promotes, caring about coworkers, respect roles and value up, down and across the organization.

- People are Happier when they believe the culture, they are in, aligns with their values and they are valued members of that culture
- Belief Based cultures can not be turned of and on
 - Dupont neighbor
 - Dow friend
 - Grocery store ladder

"In God we trust, all others bring down of the standard structure of the standard structure of the standard structure of the structure of the

Now it is time to talk about data.

- You have to keep OSHA Records.
- Unless you have about 1,000,000 exposure hours per year, look at them but don't believe they are an indication of your safety performance.

Riding with the president to Jacksonville

Now it is time to talk about good data.

- Teach people to be their brother and sister's keepers don't count "I Got Ya"cards
- Do observations to help be sure you are doing things right not to win an umbrella.
- If a life critical rule is violated or serious near miss occurs, treat them as if the accident occurred and act to correct the system that allowed/caused it to happen.

Now it is time to talk about good data.

- Hold everyone to the same standard. A supervisor going into a PPE required area needs to follow the same rules as others.
- Recognize people for doing things right. Thank them for wearing their safety belt if it is 20 feet up in a structure on the one in their car as they leave the site.

Use practical devices.

- Rob Fisher of FIT came up with a Simply Brilliant way to get JSAs done. In stead of filling files with JSAs that may not be used for months or years, start each day with a "Most Hazardous Task of the Day" meeting or tailgate. It builds the file, assures the information is fresh and reviews it in depth with the people that will be doing it that day. <u>A Happy culture cultivates innovation such as this simple effective tool</u>.
- You get the message

- How do you know if things are getting better?
- Measure it!
- What is it you want to get better? Your Culture Happiness Factor.
- How do you measure that?
- Ask the people that make up the culture what they think. They are the ones that are happy, lethargic or angry in that culture.

Remember this table?

VALIDATION STUDY DATA:

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<u>Good Data + Good Science = Good Results</u>

- The best Culture measurement tool is a well designed, developed and tested survey
- The design of the survey tool should incorporate
 - Cognitive Psychology
 - Quality Concepts
 - Statistics
 - Systems theory

<u>Good Data + Good Science = Good Results</u>

Systems Theory is about <u>the system of profound</u> <u>knowledge</u> is made up of four components through which the world is looked at simultaneously. These components function as lenses through which we see, and all four are related to each other:

1. Appreciation for a system,

2.Knowledge about variation,3.Theory of knowledge, and

4.Knowledge of psychology

Deming's System of Profound Knowledge Appreciation for a system Knowledge of Psychology Theory of knowledge

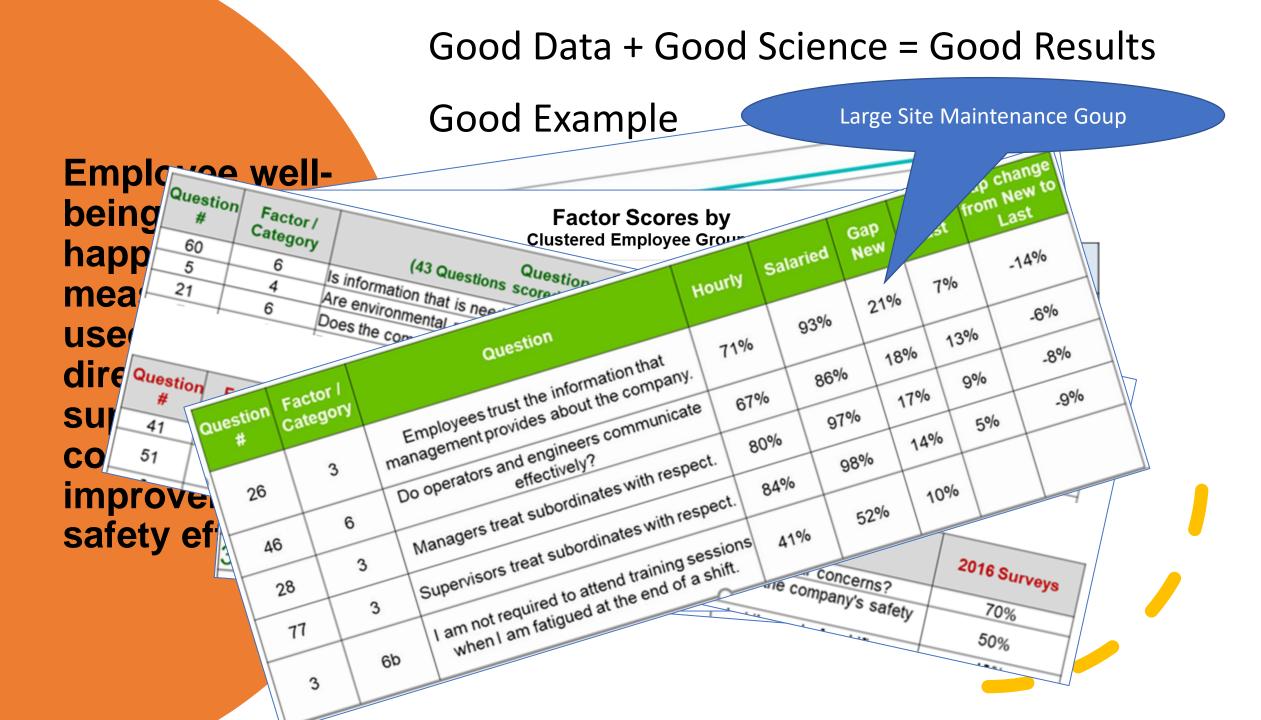
<u>Good Data + Good Science = Good Results</u>

- The development of the survey should rely heavily on
 - The Plan, Do, Study, Act Cycle. PDSA is central to good safety and quality continuous improvement processes.
 - Systems theory and application, recognizing the complexities of the systems being measured

<u>Good Data + Good Science = Good Results</u>

Every question on the survey needs to be

- Tested for reliability, validity, intra-tool relationships and quality of differentiation
- Written by experienced survey question authors
- Receive frequent statistically validation



<u>Good Data + Good Science = Good Results</u>

High level description of the process

- Develop a good survey.
- Administer the survey. Preferably to all employees. 78 Q survey took less than 15 minutes to complete.
- Report the raw results to management and all employees that took the survey.
- Define a cross sectional Focus Group
- Analyze the data
- Propose actions back to management.
- ACT....
- Repeat 2 to 3 year cycles. We did the survey every year for 12 years.

In Session Culture Survey

10 Question Survey

- The 10 Question Survey sample is made up of 10 of the most illustrative questions in the larger survey.
- It was designed as a gross measure to easily monitor macro system directions.
- While we believe it is illustrative of current culture it is very limited in ability to deep dive in the data.
- In this context it is for illustrative purposes only

Comparing 2019 NC Chapter PDC Survey to 2018 ASSP PDC

- The sample 10 Question Survey was completed at the 2018 ASSP PDC in San Antonio when Dr. Carder and I presented a very similar session.
- The survey respondent count at the 2018 survey was 103. For the NC 2019 session it was 22.
- To understand what these differences mean would require further evaluation.
- Assumptions should not be drawn from this example exercise.

2019 NC Chapter PDC and 2018 ASSP PDC Culture Survey Results

120% 120% 100% 100% 100% 91% 82% 86% 91% 86% 86% 86% 82% 81% 77%77% 80% 80% 65% 58% 51% 51% 60% 60% 48% 40% 40% 20% 20% 0% 0% 1) Do employees 2) Is off the job 3) Does the 4) Supervisors treat 5) Employees 6) Are safety rules 7) Do employees 8) When you are 9) Do you believe 10) Do employees trust the asked to do a new the equipment and understand the participate in safety a part of the company seek subordinates with effectively caution other information that enforced? employees about job do you receive facilities you work hazards of the jobs development of company's safety prompt correction respect. of problems found safe work practices program? unsafe practices? proper training? with are they perform? managemenr during inspections? maintained to provides about our ensure a safe company. 2019 NC PDC Count 22 operation? 2018 ASSP PDC Count 103 2019 NC PDC ASSP 2018 PDC **——**NC PDC Average 85% ASSP 2018 PDC 65%

NC Chapter 2019 PDC and ASSP 2018 PDC Attendee Culture Survey Results

Comparing 2019 National and NC Chapter PDC Culture Survey Results

Questions		ASSP 2018 PDC	National - NC Chapter Gap
7) Do employees caution other employees about unsafe practices?		58%	-33%
8) When you are asked to do a new job do you receive proper training?		54%	-32%
6) Are safety rules effectively enforced?		48%	-30%
2) Is off the job safety a part of the company's safety program?		54%	-28%
4) Supervisors treat subordinates with respect.		86%	-14%
5) Employees trust the information that management provides about our company.		65%	-12%
10) Do employees understand the hazards of the jobs they perform?		76%	-11%
1) Do employees participate in development of safe work practices		81%	-10%
9) Do you believe the equipment and facilities you work with are maintained to ensure a safe operation?		77%	-1%
3) Does the company seek prompt correction of problems found during inspections?		86%	5%

It was obvious during the presentations that the NC group was more positive, happy, than the National group.

We don't know why but the feel was obvious.

Question Results – Generally Speaking

Questions		Generally speaking	
4) Supervisors treat subordinates with respect.	100%		
7) Do employees caution other employees about unsafe practices?	 90% or more is very 		
1) Do employees participate in development of safe work practices	91%	good	
8) When you are asked to do a new job do you receive proper training?	86%	► • 80% to 89%	
10) Do employees understand the hazards of the jobs they perform?	86%	opportunity to improv	
2) Is off the job safety a part of the company's safety program?	82%		
3) Does the company seek prompt correction of problems found during inspections?	82%		
6) Are safety rules effectively enforced?	77%	 70% to 79% should be 	
5) Employyees trust the information that managemenr provides about our company.	77%	 70% to 79% should be considered for action 	
9) Do you believe the equipment and facilities you work with are maintained to ensure a safe operation?	77%	53	

Culture Effect

- Individuals may stray from the culture of their group, but the culture or peer pressure will steer them back and influence most of their decisions.
- Culture is more about what to expect from a group than individuals. However, the expectations of the group have significant influence on the decisions and actions of individuals.

Important Points to Consider and Why A Good Survey Helps

A Company's Culture Matters:

- Individuals act the way they believe their company wants them to act
- A good survey gives honest and open feedback on what employees believe they are being told
- This honest feedback and a good Focus Team effort is the most efficient and effective way impact the culture in a positive way, cultivating a Happier employee group

Important Points to Consider and Why this Survey Helps

Company Culture Matters:

- A good survey allows action <u>before</u> the failure, it is not waiting for failure trends
- By improving the "Safety Culture" you are not only preventing injuries and incidents, but taking actions that will help prevent Low Frequency / High Consequence events and improve company culture overall
- A strong, safe, risk averse, willing to stop and take the time to evaluate changes, culture is the best leverage you have against these major incidents

Progression vs Resistance

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Q&A

Control of the second secon

NEW GENERATION SAFETY

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events.

http://newgenerationsafety.com/

Thought for the Day

"The good thing about science is that it's true whether or not you believe in it."

Neil deGrasse Tyson



Thank you for your participation and choosing to prevent accidents as a career



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