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Can forensic laboratories reduce contextual information bias and increase happiness at work?

FORENSIC SCIENCE ERROR MANAGEMENT INTERNATIONAL FORENSICS SYMPOSIUM July 24-27, 2017 @NIST, Gaithersburg, MD



Scientists role requires their work focuses on the science and be isolated as much as possible from the adversarial judicial system and the criminal investigation.

I.E. Dror, Cognitive neuroscience in forensic science: understanding and utilising the human element, Phil. Trans. R. Soc., B 370: 20140255 (2015).

Limiting Contextual Information

Solutions

- Role of forensic examiner is administrator of laboratory test
- Identify/limit task relevant/irrelevant information
- Still have examiners involved with investigation but they are not the same examiners performing the testing (case manager approach)

Objections

- Examiners view themselves as investigators
- Forensic examiner cannot be isolated due to practical and pragmatic considerations
- Forensic examiners need to contribute to the investigation from initial stages through court
- Could hurt rapport with stakeholders
- Case manager could bias examiner doing testing

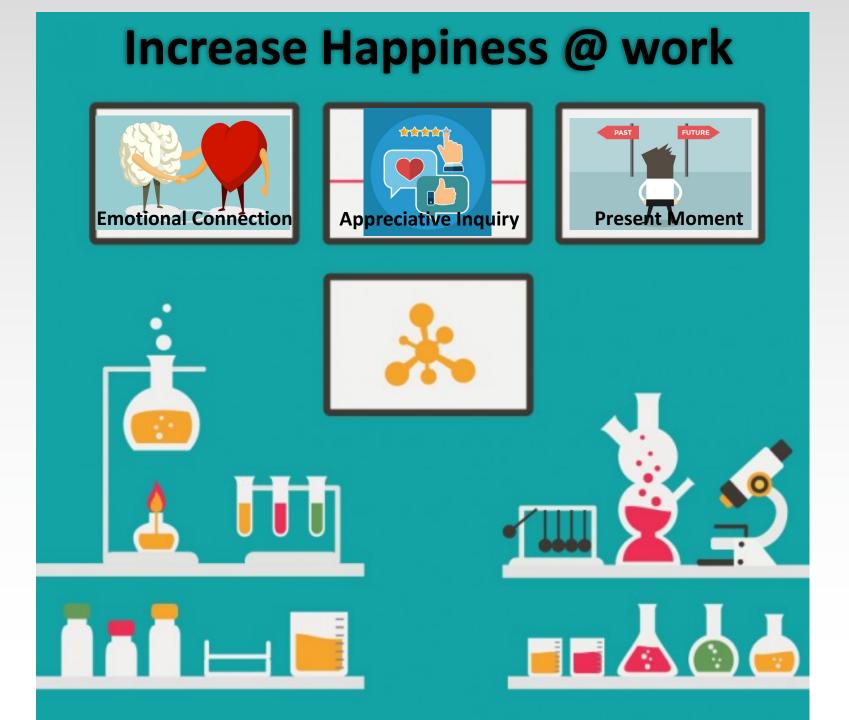
Limiting the role of the forensic examiner makes their job BORING

"...examiners want to read investigative reports or talk to investigators before or while they examine a case... such interest merely provides some personal satisfaction which allows them to enjoy their jobs... admittedly, many tasks performed by forensic examiners can be tedious, mundane, and to many people just not interesting or diverse enough to interest them in doing it."

Butt L. (2013). Forensic confirmation bias: problems, perspectives, and proposed solutions: commentary by a forensic examiner. J. Appl. Res. Mem. Cogn. 2, 44-45.

Why happiness at work matters







Convey Connection

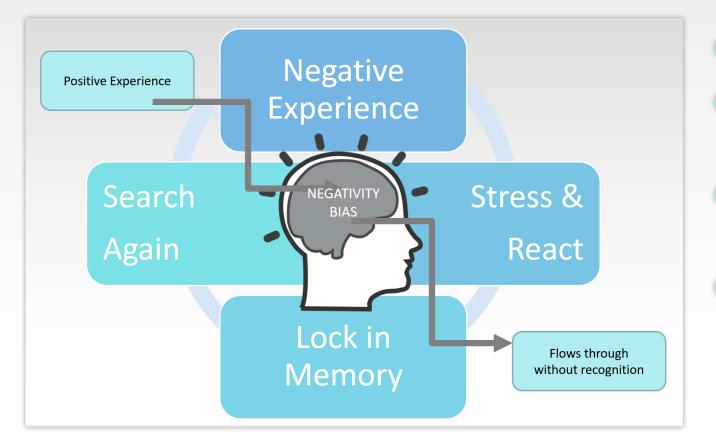
 The right message

 The correct package

The meaning behind the work we do drives motivation & happiness

Repetition

Focus on the Wins



- Reinforce positive
- Highlight everything that is working right
- Spotlighting success creates the right mindset for future achievement
- Build a catalog of stories of people helped





Grant, Adam M., Campbell, Elizabeth M., Chen, Grace, Cottone, Keenan, Lapedis, David, and Lee. Karen. (May 2007). Impact and the art of motivation maintenance: The effects of contact with beneficiaries on persistence behavior. Organizational Behavior and

Human Decision Process. 103 (1): 53-67.

Motivating callers who were raising money for their University

P

Current method
how the money waschool (i.e. new sports)

would described used to improve the , top professors,

- Experiment:
 - A group of callers read a letter from a scholarship student thanking them and describing how the money changed his life
 - A group of callers met the scholarship winner and heard his story in person
 - A group of callers did not meet the winner or read the letter





Motivating callers who were raising money for their University

The callers that had read the letter or had no contact with the scholarship winner demonstrated no change with work happiness or success.

The callers that met the scholarship winner were able to connect personally/emotionally. After 30 days of the meeting, this group raised an average of 171% more money and spent more time on the phone.



Emotional Connection



Connect

- A personal/emotional connection to a success story fuels happiness and success
 - Hearing directly from those impacted by work is an ideal way to share success stories
- Reinforce messages: video, social media, bulletin boards, email, meetings



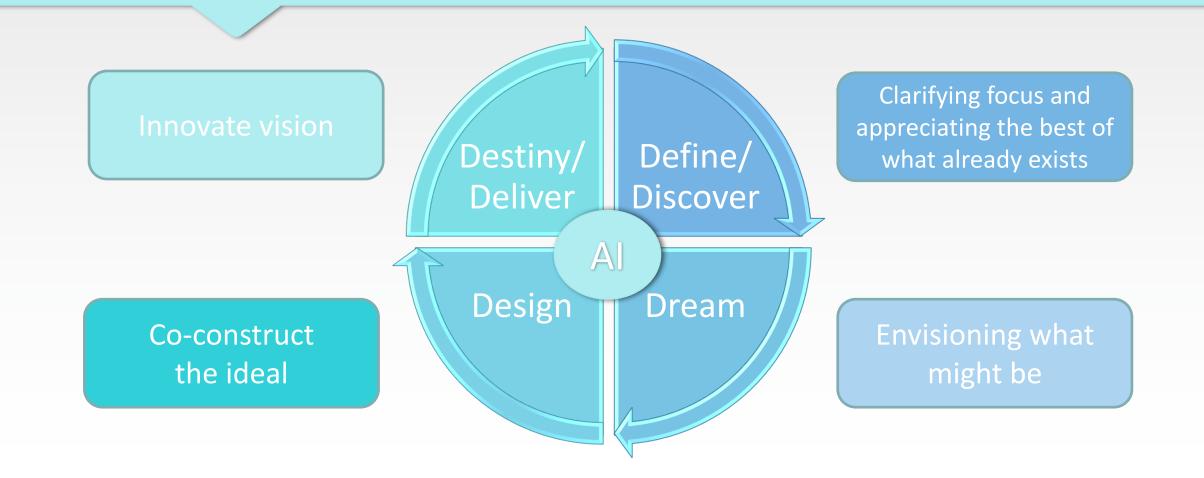
Deficit Model: Look at what we're missing! Appreciative Model: Look at what we got!

Positive Questioning

Coevolutionary search for the best in an organization through crafting of unconditional positive questions

- 1. Remember
- 2.Reinforce
- 3.Amplify

Appreciative Inquiry Model







Cooperrider, D. L., & Whitney, D. (2005). Appreciative inquiry: A positive revolution in change. San Francisco, CA: Berrett-Koehler Publishers.

The Positive Change Network

- Issue: GTE (Verizon): Following acquisition, consolidation, legislation changes for telecommunications resulted in unhappy employees, toxic conversations, negative mindsets. 90% of the company reported low engagement.
- Experiment:
 - Train staff in basics of Appreciative Inquiry
 - Each employee completed interviews to find positive examples of what was working well





The Positive Change Network

Engaging employees in AI generated over 10,000 ideas on how to create a flourishing culture

Answering AI questions enabled employees to shift their focus and change the way they viewed and valued their company

New communication pattern was better for employees both mentally and physically and was more productive overall for the organization



Al provides an alternative 'habit of discourse'

What is the worst that can happen?

VS.

What is the best that can happen?

Al Exercise

What do you value most about your work?

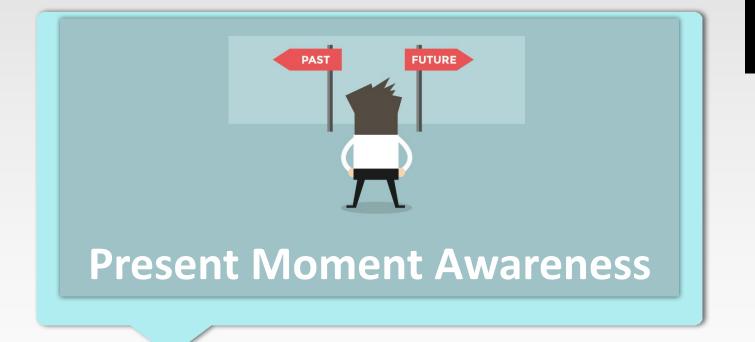
When have you felt the most engaged?

What core factors give life to the lab?

Tell a story about when morale was high?

What were the circumstances that supported a past positive environment?

What three wishes do you have to enhance vitality of the lab?



"Mindfulness helps you go home to the present. And every time you go there and recognize a condition of happiness that you have, happiness comes."

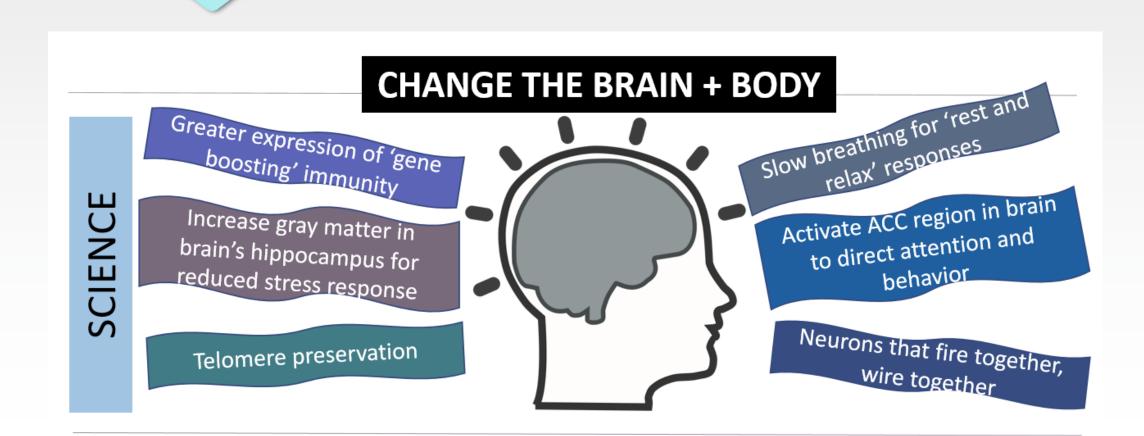
– Thich Nhat Hanh

Be. Present. Now.

Pattern interrupt which helps take control of the agitated mind and let go of unbeneficial mental patterns

- Awareness and intentionality to the present moment
- Without judgement
- 🔍 On purpose

Present Moment Awareness







Killingsworth, Matthew A. and Gilbert, Daniel T. (Nov 2010). A Wandering Mind is an Unhappy Mind. Science. 330 (6006): 932.

Track Your Happiness App

- App pinged users throughout the day asking them to take a 1 minute survey
- Survey asked users (N= 2250, ages 18-88):
 - How happy you are
 - What you're doing at the moment
 - Whether you exercised recently
 - Whether you're alone
 - Whether your mind is wandering or in the moment



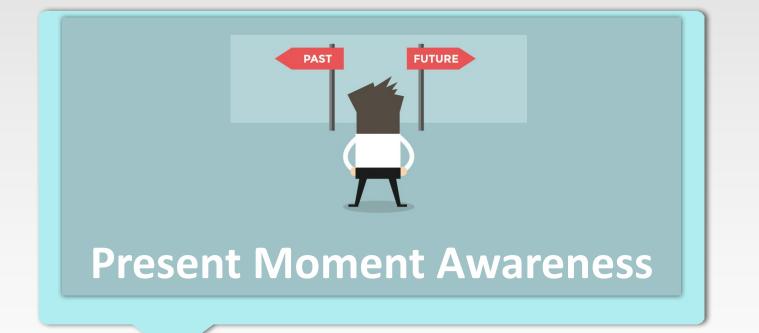


Track Your Happiness App

46.9% of people's time is spent thinking about something other than what they're doing

The activity the person was engaged in only accounted for about 5 % of a person's happiness

Main cause of people's unhappiness is how frequent their minds wander



When we become more mindful, there are gaps that are created to choose responding over reacting.

Mindfulness creates a realization that we have control and influence over our own life by cultivating a more peaceful internal environment.

Cultivate at Work

- Start every meeting with 1 minute of silence
- Consciously slow breathing during chosen activity
- Eat in silence with no distractions
- Turn off notifications
- Stop multi-tasking
- Train staff in mindfulness (1/2 day to 8 weeks)

Conclusions



Control for Contextual Information & Increase Happiness at Work

The meaning behind the work we do drives motivation & happiness. Providing examples of personal/emotional connections to the work a forensic examiner does can increase engagement and productivity.

Highlight everything that is working right. Using appreciative information questioning can shift focus and propagate positive results

A wandering mind is an unhappy mind. It isn't as important about what we are doing but, where our mind is focused when we are performing a task.

Controlling contextual information does not need to lead to negative effects on work enjoyment. There are other means to highlight engagement and increase happiness even when introducing major changes. Dedication to positive culture and personal development may be key to success during change.



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NEW

MINDSET

NE

RESULTS