# Tayne Tubb



# ON THE BORDER

Info & insights from the interface between energy healing & science

# **June 2017**



Welcome to the June 2017 edition of 'On the Border'.

Science and funny are not normally words that you would expect to find in the same sentence.....But this month we are looking at the **science of funny** and next month (July) we shall be looking at how humour is part of our hardwiring when we come into this world. Fascinating stuff, even though it may not be rib-ticklingly hysterical.

Are you interested in learning the basics of healing and energy work? There are just **TWO places** left on my **beginners 'Heal! En jezelf ook'** course in starting in

November. I know it seems a long way away, but with this much advance notice you can plan well ahead to make sure you can attend :=) So if you want to be on this training then please **contact me as soon as possible.** You'll find all the 'how to' details below.

For those of you new to 'On the Border', this is Jayne's monthly Ezine newsletter about the latest information and insights into energy fields, healing and science. Each month I share with you some of the latest research and how it applies to healing, energy work & (daily) life. There is also a 'Freebie' section where you get something for nothing, gratis.

# The Science of Funny

Laughter comes in many flavours: the giddy giggle, the mild chuckle, the lusty guffaw, the sarcastic "ha!" Its meaning is varied. signalling as everything from amusement to discomfort to disdain. researchers, understanding how brain interprets this complex behaviour is serious business.



### Real or false hilarity: our brain knows the difference

Most of us will laugh at a good joke, but we also laugh when we are not actually amused. Fake chuckles are common in social situations—such as during an important interview or a promising first date. Laughter is interesting because we observe it across all human cultures and in other species and it is an important social signal.



In a 2013 study Carolyn McGettigan and her colleagues scanned the brains of 21 participants while thev passively listened to clips of laughter elicited by funny YouTube videos or laughter produced on command (with instructions to sound natural as possible). Subjects whose medial prefrontal cortex "lit up" more when hearing the posed laughter

were better at detecting whether laughs were genuine or not in a subsequent test. (This medial prefrontal cortex brain region is involved in understanding the viewpoint of others.) If you hear a laugh that seems ambiguous in terms of what the person means then it makes sense that you will try to work out why the person is doing this.

In a follow-up study in 2016, McGettigan and her colleagues recruited a fresh set of participants to rate the laugh tracks on various qualities, such as authenticity and positivity. They compared these findings with the original brain data and found that the activity in the medial prefrontal cortex was negatively correlated with the genuineness of the laughs: the *more* active the medial prefrontal cortex, the *less* genuine the laugh. Their analyses also revealed that both types of laughter engaged the auditory cortices, although activity in these brain regions

increased as the laughs became happier, more energetic and more authentic. These results suggest that the brain is not working hard to classify laughs but that it is working hard to figure out the vocaliser's intention. This is important in terms of evolution: it is good to be able to detect if someone is authentically experiencing an emotion versus if they're not, so that you are not fooled.

#### **Teaching Robots to Laugh**

Did you know that expressing humour is a key part to being human?

When robot Nao (see picture) laughs, he does so with his whole body: slapping his knees, shaking his head. But the adorable android,



made by SoftBank Robotics, is not merely good at expressing mirth; he can correctly identify as much as 65 percent of happy laughter outbursts in humans, according to a study presented in 2015 at a nonverbal language workshop in The Netherlands. Once robots like Nao master human laughter, they will make far more likable and realistic companions.

Nao's creators and other scientists are studying the minutiae of human laughter— acoustics, breath, body movements and vibrations—to translate them into algorithms that robots and avatars can learn. And that includes learning how to be funny. In 2016 researchers in South Korea and Singapore showed that Nao is already quite good at telling jokes. When he did a stand-up routine alongside an experienced actor, his taped performance was later consistently rated just half a point below the human on a scale of 1 to 7. Moreover, people were less disgusted by disparaging jokes if the robot told them. Taezoon Park, an industrial engineer says that in the future, scientists will optimise the robot's tone of voice, facial expressions and subtle gestures to fine-tune his comedy.



Robots still have a long way to go to fully understand human laughter, which can signify anything from happiness and amusement to sexual interest, embarrassment or anger. Also baffling to machines is the fact that laughter can vary: there is the classic ha-ha- ha laughter, speech laughter (when you speak

while laughing) and smile speech (talking while smiling). Distinguishing among these types will be vital for better human-robot interactions. Since laughter is such a crucial part of what it means to be human, artificial intelligence will not be convincing until machines can laugh along with us.....

Further, for robots to laugh convincingly with humans, they must be able to tell when a person wants such an interaction. Apparently an 'inviting laugh' is longer and louder and has a higher pitch than an 'isolated laugh'. According to computer scientist, Khiet Truong, humans respond to an inviting laugh within half a second on average. Robots will need to do the same—otherwise it is no longer natural (robots=natural??).

If these efforts succeed, we may soon have humourous robots and avatars that can assist the elderly, cheer up hospital patients, play with kids and help keep us amused. I wonder how long it will take researchers to realise that human contact and laughter is irreplacable even with a laughingly-accurate android?

#### **No Laughing Matter**

Humour has been touted as a panacea that boosts the immune system, smoothes the way to success at work and even helps us to live longer. But for some people, chuckles are no laughing matter.

Those who suffer from *gelotophobia*, or fear of being laughed at (but it sounds more to me like a fear of ice-cream), dread even well-intentioned jokes. They don't trust friendly laughter—that someone is just enjoying themselves. Any laughter is bad laughter. Willibald Ruch recalls one case he observed in his laboratory: the person would always wait for the next bus if no seat in the last row was free. He could not stand the idea that someone would sit behind him

and laugh.

Like most phobias, this one exists on a spectrum from mild to severe. To assess the extent of the problem, scientists ask people to rate how much they identify with statements such as "It takes me very long to recover from having been laughed at" or "When others laugh in my presence, I get suspicious." Studies across the globe suggest anywhere



between 1.6 and 13 percent of people suffer from gelotophobia. The lowest numbers are seen in countries where people are more equal, such as Denmark and the Netherlands, and very high scores are seen in countries where honour is particularly important and shame is used for social control such as some Asian countries.

Researchers are just beginning to understand how gelotophobia develops. In addition to culture, parenting may play a role. In a study of 100 families, mothers and fathers who were prone to punishment and control were more likely to have kids who feared laughter. Several studies have shown that gelotophobes were often victims of bullying. Also, a 2012 study suggested a partial overlap with social anxiety, finding that 36 percent of gelotophobes meet the criteria for the disorder.

Brain-imaging studies show that gelotophobes process humour differently from other people. A 2016 electroencephalographic (EEG) study revealed that when the former listen to the sounds of laughter or angry shouting, they show more activity along pathways linking their prefrontal and posterior cortices. The study's lead author, Ilona Papoušek, a psychologist at the University of Graz in Austria, believes this linkage shows they are more sensitive to actual or supposed malicious aspects of laughter.

Another experiment published in 2016 showed that compared with a control group, gelotophobes have lower activation in their brain's reward circuits when listening to jokes. It remains unclear, though, what comes first: gelotophobia or atypical processing of laughter in the brain.

The good news, Ruch suspects, is that gelotophobia should respond to the same kind of therapies used for other phobias. The bad news is it might be hard to convince someone who dreads laughter to visit a therapist, who might smile at patients to put them at ease.

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# Heal! En jezelf ook 2017, op zondag

Voor nieuwe verdieping en ontdekkingen in jezelf

There are only TWO places left on this training so please do respond as quickly as possible if you want to take part!

Whether you are already well-versed in the field of energy medicine & healing or a complete beginner, you will experience this training as a deepening and an enrichment.

Often when people start working with energy fields they go into overwhelm at the amount of information present in the aura. I'll teach you my structured way to work with all that so that you don't go into energy information overload. I'll also help you become a 'body whisperer' so that you can translate the consciousness present in an ailment into meaningful information for yourself and those you work with.

The dates for you to note in your diaries (all on Sundays; you will need a good working knowledge of Dutch but don't need to speak it fluently):

Sunday 5<sup>th</sup> November 2017 Sunday 10<sup>th</sup> December Sunday 14<sup>th</sup> January 2018 Sunday 18<sup>th</sup> February

Each Sunday class will take place between 10-16u in 'De Ruimte' (Weesperzijde 79A, Amsterdam), and includes a fabulously lekkere lunch.

**Price: €480** (incl. voor particulieren; excl btw voor business-to-business) and coffee/tea/lekkere dingen/lunch

**To register:** Send me an email requesting the 'aanmeldingsformulier' (reservation form) and payment details. Your place is reserved once I have received the deposit of  $\leq 120$ .

For more information please see <a href="http://www.jaynejubb.com/healcourse.htm">http://www.jaynejubb.com/healcourse.htm</a>

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#### **Iune Freebie**

In this section you get the chance to get something for nothing. Helemaal gratis. Always a pleasure!

Last month I shared with you Kris Carr's **Crazy Sexy Starter Kit** from her website <a href="http://www.kriscarr.com">http://www.kriscarr.com</a> . I'm still happily downing my green juice every day and noticing many benefits even though it is just one a day.

For those of you who have also started doing this – or for those of you standing on the sidelines considering it – then Kris is starting up a 21-day Crazy Sexy You

Total Wellness Program (this is not free!). It isn't just green juices but a complete holistic reset (food, meditation, exercise, self-inquiry – tailored to meet the needs of busy people). She has released a series of four free videos that will be online for a limited time before the program starts. So if this link no longer works when you click it then you know why – you've waited too long;=)

The first 3 videos cover the following topics, the 4<sup>th</sup> is to encourage you to take part in the 21-day wellness program:

Video 1: Mistakes that zap your energy Video 2: How to conquer food cravings Video 3: Secrets to making lasting change

Video 4: The Blueprint

http://kriscarr.com/energy-wellnessworkshop2017/

Enjoy!!

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#### **Back Issues**

If you have missed any of the previous issues, then the main articles and full newsletter pdf links can be found at www.jaynejubb.com/backissues.htm

## **Subscription Management**

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If you have received this Ezine Newsletter from a friend because you are not on my list, but would like to be, then please send me an Email and I can get you signed up immediately.