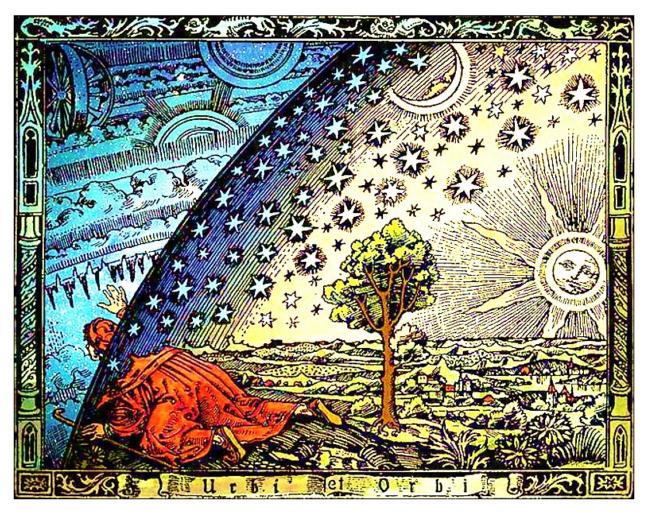
MPG HLL Inauguration Ceremony and Semiconductor Symposium

Conference dinner welcome address

Garching b. München, 8.10.2024







Camille Flammarion, "Un missionnaire du moyen", 1888 Holzschnitt, nachträglich koloriert





Neuromuscular control of trout swimming in a vortex street: implications for energy economy during the Kármán gait FREE

James C. Liao

+ Author and article information J Exp Biol (2004) 207 (20): 3495-3506.

https://doi.org/10.1242/jeb.01125 Article history ©



SUMMARY

Approximating the complexity of natural locomotor condition mechanisms that enable animals to successfully navigate th vortices shed from a cylinder, fishes hold station by adopting gait, whereby the body of the fish displays large, lateral oscill the vortex shedding frequency of the cylinder. Although field turbulent flows over uniform currents, the effect of hydrody control and energetics of locomotion is still poorly understo to measure red and white axial muscle activity for rainbow tr a vortex street. When trout Kármán gait, they show a signific

Physics

JOURNAL ARTICLE

Factors Involved in the Ejection of Milk Get access >



Ely Fordyce, W. E. Petersen

Journal of Animal Science, Volume 1939, Issue 1, December 1939, Page 80, https://doi.org /10.1093/ansci/1939.1.80

Published: 01 December 1939

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How side effects can improve treatment efficacy: a randomized trial Get access

Lieven A Schenk ™, Tahmine Fadai, Christian Büchel

Brain, Volume 147, Issue 8, August 2024, Pages 2643-2651, https://doi.org/10.1093/brain /awae132

Published: 03 May 2024 Article history ▼

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Abstract

While treatment side effects may adversely impact patients, they could also potentially function as indicators for effective treatment. In this study, we investigated whether and how side effects can trigger positive treatment expectations and enhance treatment outcomes.

In this pre-registered trial (DRKS00026648), 77 healthy participants were made to believe that they will receive fentanyl nasal sprays before receiving thermal pain in a controlled experimental setting. However, nasal sprays did not contain fentanyl, rather they either contained capsaicin to induce a side

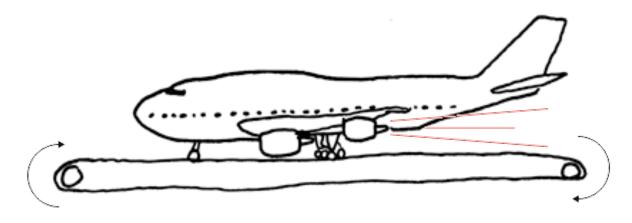
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sed due to a lack of differentation between secretion and he alveoli and small ductules. Sympathetic denervation of er of several cows in the Kentucky Agricultural rd revealed the fact that the nervous control of the rect rather than direct. Milk was not ejected in either half fright or intravenous injection of adrenalin at the start of

psterior lobe fractions (pitocin and pitressin) caused a ge of the gland. When these were injected following fright the milk was ejected after a lapse of thirty seconds. At rmal milkings intravenous injections of posterior lobe ant resumption of ejection of milk Such strippings

Biology

Medicine



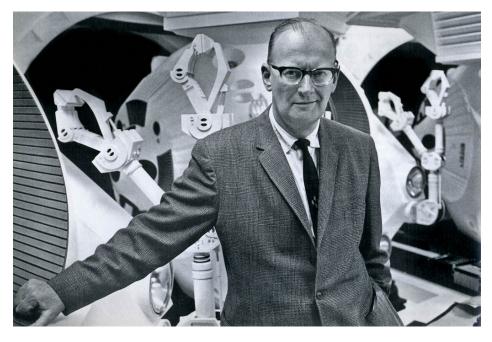
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https://en.wikipedia.org/wiki/Feynman_sprinkler

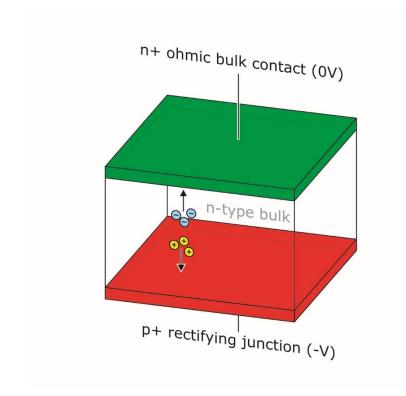


Sir Arthur C. Clarke (1917-2008)

"The only way of discovering the limits of the possible is to venture a little way past them into the impossible." [1]

Arthur C. Clarke

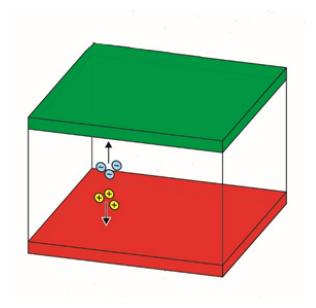
[1] "Hazards of Prophecy: The Failure of Imagination" in the collection *Profiles of the Future: An Enquiry into the Limits of the Possible* (1962, rev. 1973), p. 21.





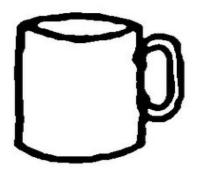




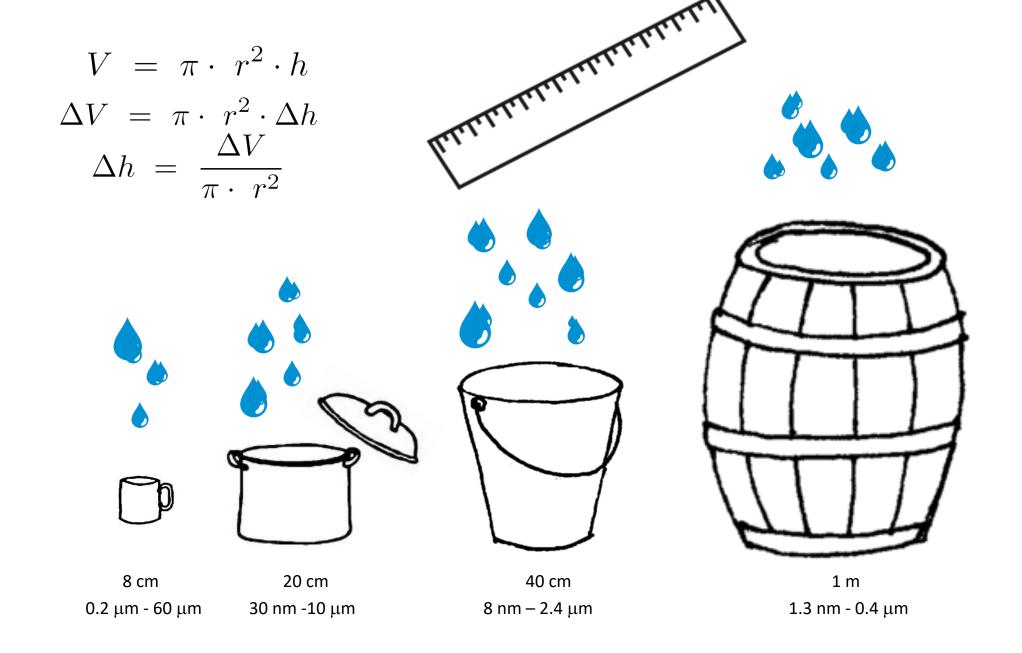


$$C = \frac{Q}{U} = \epsilon_0 \cdot \epsilon_r \cdot \frac{A}{d}$$
$$\Delta U = \frac{\Delta Q \cdot d}{\epsilon_0 \cdot \epsilon_r \cdot A}$$





$$\Delta V = \pi \cdot r^2 \cdot \Delta h$$
$$\Delta h = \frac{\Delta V}{\pi \cdot r^2}$$











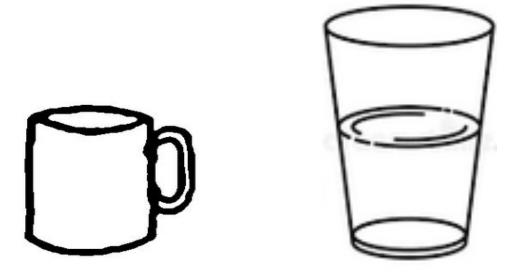




















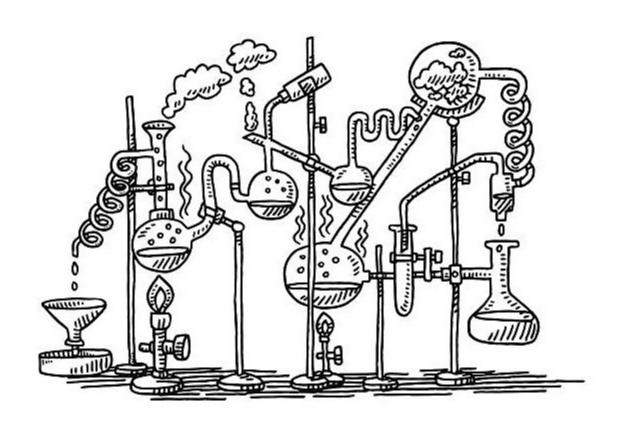


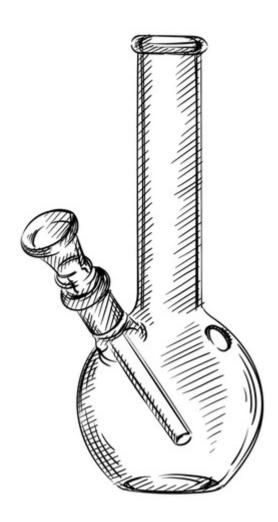












"Any sufficiently advanced technology is indistinguishable from magic." [2]

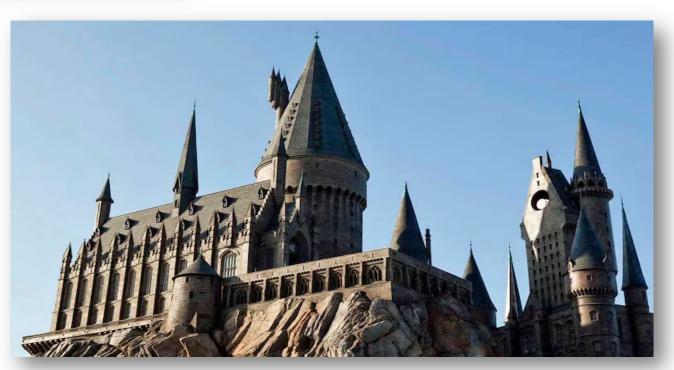
Arthur C. Clarke

[2] "Hazards of Prophecy: The Failure of Imagination" in the collection *Profiles of the Future: An Enquiry into the Limits of the Possible* (1962, rev. 1973), p. 36.







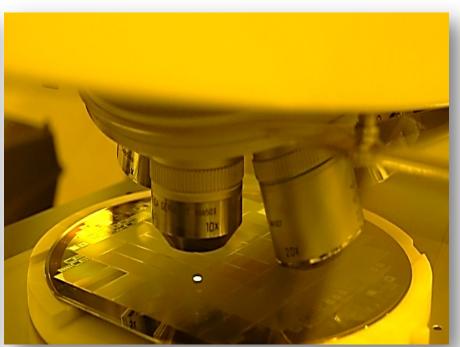






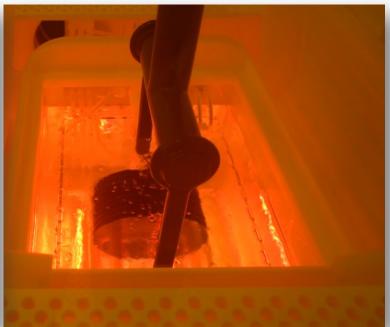




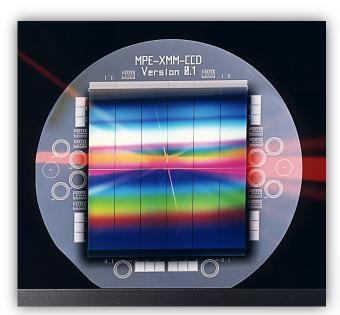


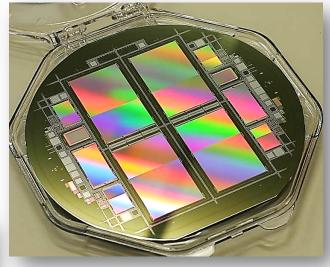




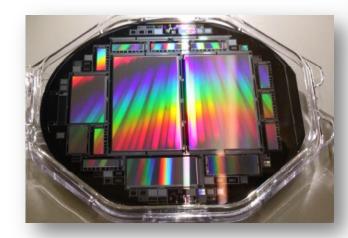


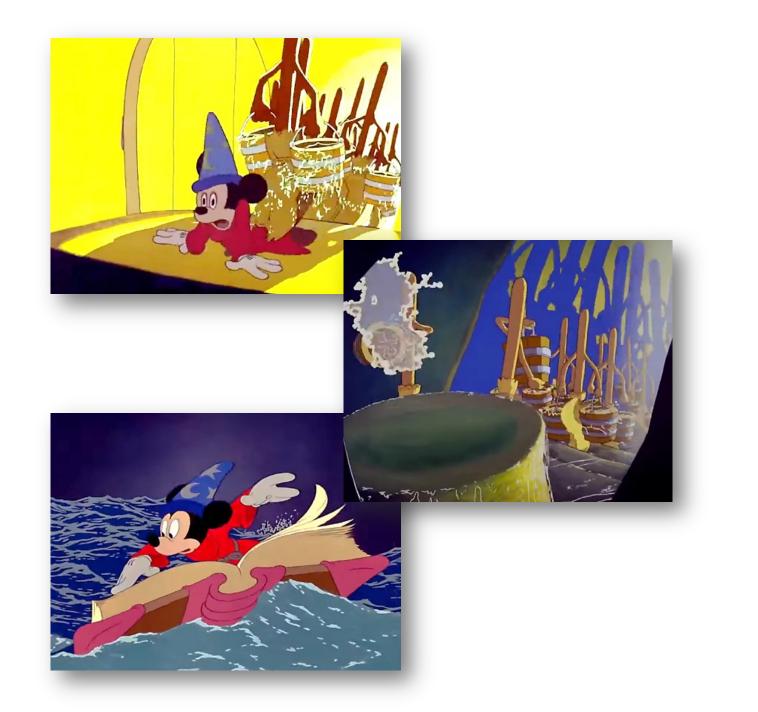














"When a distinguished but elderly scientist states that something is possible, he is almost certainly right. When he states that something is impossible, he is very probably wrong." [3]

Arthur C. Clarke

[3] "Hazards of Prophecy: The Failure of Imagination" in the collection *Profiles of the Future: An Enquiry into the Limits of the Possible* (1962, rev. 1973), pp. 14.

1874: "[...] advised him [Max Planck] to apply his talents to a different discipline as it appeared (to von Jolly) that all that there was in physics was detailed work for second-class minds."

Philipp von Jolly to young Max Planck

1883: "X-rays will prove to be a hoax."

Lord Kelvin

1889: "Fooling around with alternating current (AC) is just a waste of time. Nobody will use it, ever."

Thomas Edison.

Albert Einstein

1932: "There is not the slightest indication that nuclear energy will ever be obtainable. It would mean that the atom would have to be shattered at will."

1981: "No one will need more than 637KB of memory for a personal computer. 640KB ought to be enough for anybody."

Bill Gates

1992: "The idea of a personal communicator in every pocket is a "pipe dream driven by greed."

Andy Grove, then CEO of Intel.

2007: "There's no chance that the iPhone is going to get any significant market share."

Steve Ballmer

"As three laws were good enough for Newton, I have modestly decided to stop there". [4]

Arthur C. Clarke



Sir Isaac Newton's cat forgotten hero of science

[4] "Hazards of Prophecy: The Failure of Imagination" in the collection *Profiles of the Future: An Enquiry into the Limits of the Possible* (1962, rev. 1973), pp. 36.