

Lodz, October 18, 2018

About today

RULES

- 1. You are in charge, I'm at your service. Use the time wisely.
- 2. Questions are welcome anytime.
- 3. Laptop or mobile is ok, but please don't drift away!

GENERAL GOALS

- Start thinking about communication in another way.
- 2. Practice some skills
- 3. Start a learning process.

About YOUIS truly

Olle Bergman

M.Sc. Chemical Engineering

"Communications Consultant, Public Speaker & Professional Writer with a passion for people, science, language & history."







Sigismund

Zygmunt III Waza

1566–1632

Kung av Sverige 1592–99

Król Polski i wielki książę litewski 1587–1632











Ad E agency Gambro



Selfemployed consultant

1990

2000

2010

Ms Sc Dpt of Chem. Neuro-Eng. Chemistry,

Lund

University

NE



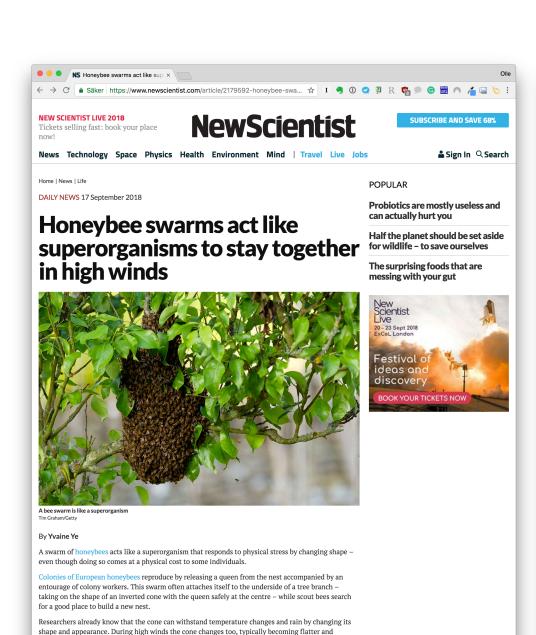












hugging closer to the underside of the branch.

Bee quake

To understand how individual bees work together to generate a swarm-wide response, Orit Peleg at

Harvard University and his colleagues attached a bee cluster to the underside of a board hanging in

their laboratory and shook the board horizontally to mimic the physical stress of high winds.

__.

of an individual.

Collective dynamics allow super-organisms to function in ways that a single organism cannot, by virtue of their emergent size, shape, physiology and behaviour². Classic examples include the physiological and behavioural strategies seen in social insects (for example, ants that

n Collective mechanical adaptati ×

nature.com > nature physics > letters > article

physics

Letter | Published: 17 September 2018

honeybee swarms

Nature Physics (2018) | Download Citation ±

Abstract

O. Peleg, J. M. Peters, M. K. Salcedo & L. Mahadevan

← → C â Säker https://www.nature.com/articles/s41567-018-0262-1

Collective mechanical adaptation of

Honeybee Apis mellifera swarms form large congested tree-hanging

structures are maintained under the influence of dynamic mechanical forcing is unknown. To address this, we created pendant clusters and

frequency and duration. We find that horizontally shaken clusters adapt by spreading out to form wider, flatter cones that recover their original

not lead to significant differential strains and thus no shape adaptation, which we confirmed experimentally. Together, our findings highlight

how a super-organismal structure responds to dynamic loading by

actively changing its morphology to improve the collective stability of

the cluster at the expense of increasing the average mechanical burden

clusters made solely of bees attached to each other¹. How these

subject them to dynamic loads of varying orientation, amplitude,

shape when unloaded. Measuring the response of a cluster to an impulsive pendular excitation shows that flattened cones deform less and relax faster than the elongated ones (that is, they are more stable). Particle-based simulations of a passive assemblage suggest a behavioural hypothesis: individual bees respond to local variations in strain by moving up the strain gradient, which is qualitatively consistent with our observations of individual bee movement during dynamic loading. The simulations also suggest that vertical shaking will

Sections

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About this article

Main

Start a learning process to ···

Deepen and broaden your view regarding communication

- The Inverted Pyramid
- Writing a lede
- The 5 Ws

- · Do you consider yourself a skilled communicator?
- · Have you been writing news or web texts?
- · Are you a great writer?

Basic principles of communication

5 why rhetoric is still relevant in AD 2018

Define your task.

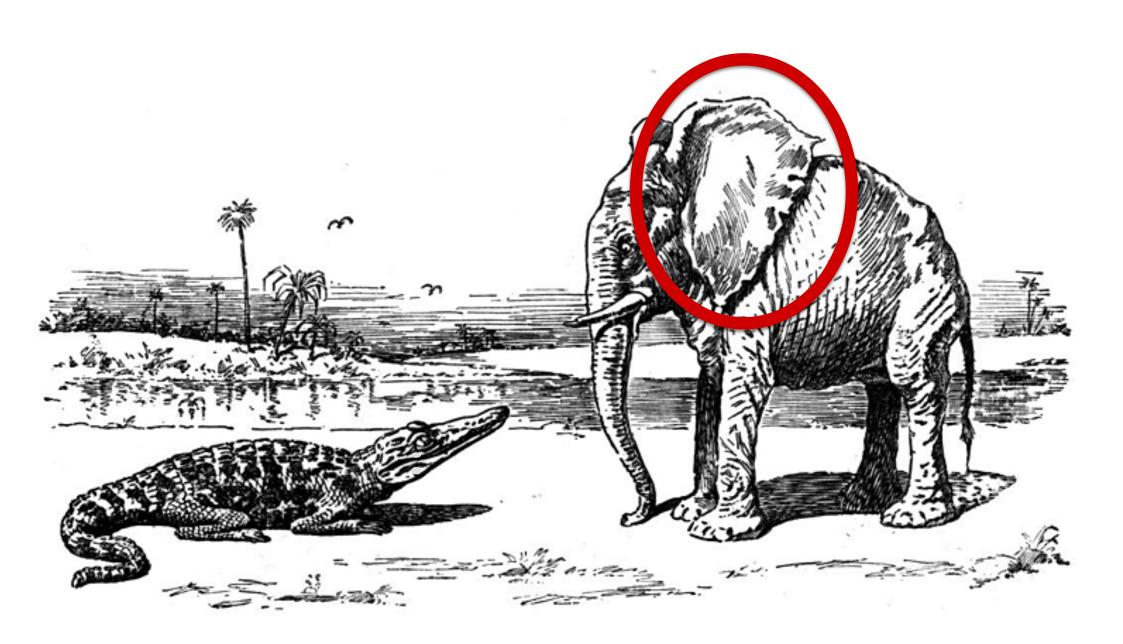
Microsoft®

WHERE DO YOU WANT TO GO TODAY?



- Transfer information?
- Create understanding?
- Convince opponent?
- Sell an idea or a product?
- Influence decisions?
- CHANGE THE WORLD!!

Analyzyour targe group.



What ...

- ... do they know?
- ... do they want?
- ... do they need?
- ... motivates them?



Australopithecus afarensis

HOMEOSTASIS SECURITY HIERARCHY CEPRODUCT ION

What ...

- ... do they think they know?
- ... do they want to be?
- ... makes them feel insecure?
- b ... boosts their ego?

Know y arself.

"To thine own self be true"

Hamlet Act 1, scene 3



Unde tand the lim ations at had.





Seek in spration in all yes of commerciation.





- Exordium
- Narratio
- Propositio
- Probatio
- Refutation
- Peroratio

- Introduction
- Background
- Thesis
- Proof
- Refutation
- Conclusion

- Title
- (Abstract)
- Introduction
- Materials & Methods
- Results
- Conclusions
- References
- Acknowledgements



ETHOS

PATHOS











Attention

Interest

Desire

Action







Home

Nobel Prizes and Laureates

Nomination

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Nobel Prizes and Laureates

Medicine Prizes



About the Nobel Prize in Physiology or Medicine 2008

▼ Harald zur Hausen

Facts

Biographical

Nobel Lecture

Banquet Speech

Interview

Documentary

Nobel Diploma

Photo Gallery

Prize Presentation

Other Resources

- ► Françoise Barré-Sinoussi
- ► Luc Montagnier

All Nobel Prizes in Physiology or Medicine All Nobel Prizes in 2008



The Nobel Prize in Physiology or Medicine 2008

Harald zur Hausen, Françoise Barré-Sinoussi, Luc Montagnier

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Harald zur Hausen - Facts



Photo: U. Montan

Harald zur Hausen

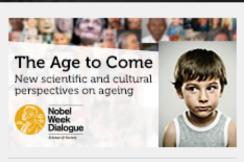
Born: 11 March 1936. Gelsenkirchen, Germany

Affiliation at the time of the award: German Cancer Research Centre, Heidelberg, Germany

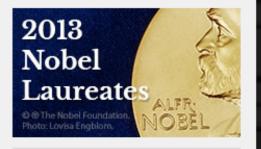
Prize motivation: "for his discovery of human papilloma viruses causing cervical cancer"

Field: disease transmission, medical oncology, virology

Prize share: 1/2



























IIVIPA CII

- The Inverted Pyramid
- Writing a lede
- The 5 Ws

The writer

Write FASTER in a STRUCTURED way.

The reader

Find RELEVANT texts and ENJOY them more and UNDERSTAND them better.



The inverted pyramid

Really interesting stuff

Not so interesting stuff

"The Lead": The most important info

Who? What? Where? When? Why? How?
Approximately 30 words (1-2 thin paragraphs)
May include a "hook" (provocative quote or question)

"The Body": The crucial info

Argument, Controversy, Story, Issue Evidence, background, details, logic, etc.

Quotes, photos, video, and audio that support, dispute, expand the topic

"The Tail": extra info

Interesting/Related items

May include extra context
In blogs, columns, and
other editorials: the
assessment of the
journalist



The lede

"A lead paragraph (sometimes shortened to lead; also spelled lede) is the opening paragraph of an article[or other written work] that summarizes its main ideas."

Wikipedia

"Never bury the lead" is a common phrase from journalism. In a news story, the "lead" (aka lede) is the first few sentences that quickly convey the gist of the story. When done right, whether in a newspaper article, resume or LinkedIn profile, a good lead makes the reader want to keep reading. Burying it, on the other hand, can cause a reader to lose interest.

Forbes

Ketamine, a drug that's shown promising results in a number of small studies as a treatment for depression, could be producing its effects by lighting up the brain's opioid system, the circuitry that controls pain, reward, and sometimes addictive behavior, NPR reports.

Science

Australia's new prime minister has abandoned the country's policy for cutting greenhouse-gas emissions. Climate scientists say the move means the government has effectively dropped its commitment to the 2015 Paris climate agreement.

Nature



What? Who?

When? Why?

Where? How?

The Inverted Pyramid

- Writing a lede
- The 5 Ws

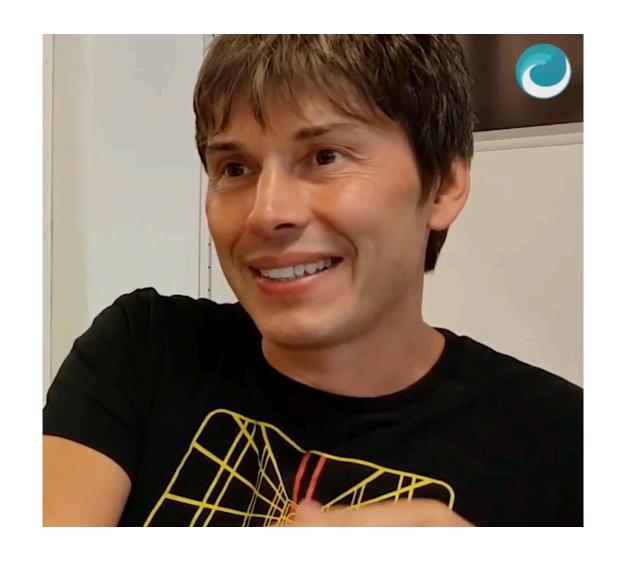
goo.gl/N1cHuL



- a reflection on popularization

"To explain something simply, you have to do quite a lot of work."

BRIAN COX



Know your subject well.



Find right ormat.

Explif the communication toolbox.

Moun your a ence.

- Metaphors.
- Visuals.
- Props.
- Demonstrations & experiments.
- The human factor & storytelling

- · Which were the four tools which were presented today?
- · Which was your #1 insight today?
- · How will you use what you learned today?





- 1. Poor emotional engagement.
- 2. Strong, yet dysfunctional conventions.
- 3. Widespread DIY culture.

Scientists Officials Scientists A Politicians Students PhD students Healthcare Corporations NGOs Entrepreneurs Influencers



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