

Information – The Cause of Effect Truth and Effect

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Abstract: Everyone is familiar with the principle of "cause and effect." The article "Information and Effect" has been published by me in several journals [1] and makes it clear that information is behind the cause and is the actual cause of effect. In this article, the origin of information is substantiated by biblical quotations and discussed in depth, including how humans obtain information and thus knowledge and gain new insights in science and research, namely that God puts thoughts into the hearts of humans. For in him we live and move and have our being. He surrounds us on all sides⁶ which emphasizes the omnipresence of God (Psalm 139:1-5, Acts of the Apostles 17:28). No one should believe that he has discovered something and boast, seek honor, dignity, recognition, and attention, advancement, and a career, even to the point of becoming a professor or winning a Nobel Prize. It comes from God alone! You are worthy to receive praise and honor and power, for you created all things, and by your will they were created and have their being. To him alone be the glory (Revelation 4:11)⁴. For further Bible passages, see "*Bible passages*."

For information and effect, it is also worth mentioning the statement by the well-known Nobel Prize winner ANTON ZEILINGER from the Institute for Quantum Information in Vienna:

Information and reality are two sides of the same coin

Reality is not a concept from physics: however, reality can be understood as a single effect or the sum of all effects.

Since, according to the Bible, word (information) and truth belong together, my subtitle "Truth and Effect" should also be understood in this sense.

I. Treatise

My article "Information and Effect: An Introduction to the Concept of Immanence as a Physical Quantity" has been published in several journals [1]. It contains the formula (1) for the equivalence of information and effect:

$$A = h \cdot \ln 2 \cdot H \quad (1)$$

and formula (2) for the equivalence of energy and information flow = dynamic information H/t :

$$E = h \cdot \ln 2 \cdot H / t \quad (2)$$

The introduction of the concept of immanence as a physical quantity also opens up a path to theology and philosophy¹.

A particularly good example of how information works can be found in the biblical verses in the Gospel of John 1:1-3: "In the beginning was the Word, and the Word was with God, and God was the Word. The same was in the beginning with God. All things were made by him; and without him was not any thing made that was made."

This can also be read in Hebrews 11:3: "Through faith we understand that the worlds were made by the word of God, so that everything you see has come from nothing."

and in Romans 11:36 can also be read: "For from him and through him and to him are all things. To him be glory forever and ever! Amen.

At the moment God spoke, energy entered the world through this flow of information. Physicists were familiar with the standard model of physics, which could explain many things. However, physicists at that time did not know where the energy in the world came from. Believing Christians knew that it came through God's word and speech. Through these discoveries in modern physics, physicists have also come to the Christian faith.

Effect is information and reality. Since information flow = dynamic information is equivalent to (~) energy, effect is also revealed in reality. One could also say that energy as dynamic information is truth in action. Reality and truth reveal themselves in different ways. Information (including SHANNON's information entropy² can never be destroyed¹ , but only created.

Walking in nature and along the beach also inspires us to ask new questions, gain new insights, and promote research.

Nature is also the best therapy for healing minor illnesses, especially mental and psychological ailments (KNEIP).

Immersing oneself in nature (matter ~ energy) – in God's word⁶, which is dynamic information and energy/power – promotes well-being and health and, to some extent, through contemplating passages from the Bible, gives one a feeling as if one were in eternity.⁷

Contributions on the topic of "Information – The Cause of Effect – Truth and Effect" can also be heard on YouTube; I would particularly like to highlight the lecture by astrophysicist Dr. ALBRECHT KELLNER entitled:

"Modern Physics and Christian Faith." To find it, enter the following in Google: "YouTube: "Is science incompatible with the Bible? Physics – statements from the Bible," in which he uses many examples to show how modern physics provides a wonderful picture of creation and how modern physical findings are consistent with the statements of Holy Scripture.

Words and labels are programmatic and have an effect. Even if they are not followed, they have an effect on the minds of the listeners, or, if negated, have the opposite effect.

If reality and effect are not based on truth, then things look bad for the world; then fake news endangers the coexistence of peoples, and dictators and autocrats have the upper hand.

Truth always leads to good.

Bible passages:

Truth always leads to good::

Psalm 100:5: For the LORD is good, and his mercy endures forever, and his *truth* for and for.

Psalm 86:11: Show me your way, o LORD, that I may walk in your *truth*; keep my heart undivided to fear your name.

Psalm 27:11: O LORD, teach me your way and lead me in a level path because of my enemies willnes.

Psalm 57:11: For your goodness reaches as far as the heavens, and your *truth* as far as the clouds.

Isaiah 48:17: Thus says the LORD, your Redeemer, the Holy one of Israel: I am the LORD your God, who teaches you what is good for you and guides you in the way you should go.

Ephesians 2:10: For we are his workmanship, created in *Christ Jesus* for good works, which God prepared beforehand that we should walk in them.³

Ephesians 5:9: Walk as children of light - the fruit of the light is all goodness and righteousness and truth.

Revelation 5:12: The Lamb who was slain is worthy to receive power and wealth and wisdom and strength and honor and glory and praise.

Revelation 7:12: Amen, praise and honor and wisdom and thanks and price and power and strength be to our God forever and ever! Amen.⁴

Revelation 4:11: You are worthy, our LORD and God, to receive price and honor and power; for you created all things, and by your will they were created and have their beings.⁵

Hebrews 12:11: Now all chastisement, when it comes, seems not to us joy but sorrow; but afterward it yields the *peaceful fruit of righteousness* to those who are trained by it.

1. John 3:18: My little children, let us not love in word or in tongue, but in *deed (effect)* and in *truth*.

1. John 3:22: And whatever we ask we receive from him because *we keep his commands and do (work) what pleases him*.

John 17:17: Sanctify them in your *truth*; your **word** is *the truth*.

The "I am" words of Jesus:

John 14:6: I am the way, the *truth*, and the life; no one comes to the Father except through me.

8:12: I am the light.
10:9: I am the door.
10:11: I am the good shepherd.
15:1: I am the vine; you are the branches.
6:35: I am the bread of life.

These Bible passages show that the Bible does not see *truth* as just an abstract idea, but as something that manifests itself in people's ways and actions and is connected to God's actions.

Song: "Give God the Glory" Original title: "Give God the Glory"
© 1989 Amen Music / Jack Steneckes Canada

Song: "Keep me on your paths and let me not stray; let my feet not stumble or stand still in your ways;
enlighten my body and soul, you strong heavenly light."
Lyrics: Johann Scheffler 1657
Melody: Johann Balthasar König 1738

II. Conclusion

The governments of nations should take these insights into account in order to create a peaceful world and preserve international law, without which no community of nations can exist. The values resulting from this should also be taught in schools of all kinds.

Definition of symbols used in the formulas

A = Action, Effect, Wirkung
E = Energy
H = SHANNON's information entropy²⁾
H/t = Information flow= *dynamic information*
S = thermodynamic entropy
W = thermodynamic probability $S = k \cdot \ln 2 \cdot W$
Q = heat energy
T = Temperature
t = time
h = PLANCK's action quantum
k = BOLTZMANN's constant
rev = reversible

References

- [1] Jöge, F.M.: Information & Effect: An Introduction to the Concept of Immanence as a Physical Quantity.
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- [2] Jaglom, A.M. Jaglom, F.M.: Probability and Information VED Deutscher Verlag der Wissenschaft, Berlin (1965)

² SHANNON's Information Entropy

Glossary

Entropy: Physical state variable; introduced by R. CLAUSIUS (1865)

comparative figure for the transformation content of a body. Its change is given by $dS = \delta Q_{\text{rev}}/T$. Thanks to the work of LUDWIG BOLTZMANN in particular, thermodynamics, which had previously only been described *phenomenologically and macroscopically*, became *statistical mechanics*, and entropy has since been defined as the "logarithmic measure of the thermodynamic probability (better: *complexity number*) of a state." It is characterized by the logarithm of the number of microstates and, in information theory, is simply the number of binary decisions required to identify a sequence of symbols. To illustrate this, entropy can also be regarded as a "measure of the state of order of a system," and in the form of the second law of thermodynamics, it represents the *physical arrow of time*.

2nd law of thermodynamics: This is an empirical law that specifies the direction of processes possible according to the 1st law. This law can be used to calculate the equilibrium state and thus the yield of chemical processes.

Thermodynamics: This branch of physics investigates the relationships between changes in state and changes in energy in a system. The term "system" refers to the totality of the substances involved. At the end of the last century, thanks to the work of LUDWIG BOLTZMANN, JAMES CLERK MAXWELL, and JOSIAH WILLARD GIBBS, provided a deeper and more vivid explanation of the *phenomenological thermodynamics* through the molecular perspective by the *molecular view of statistical mechanics*. The macroscopic properties of a gas were traced back to the microscopic properties of the gas molecules.

¹ The transcendent nature of information is also expressed in LEONARD SUSSKIND's statement: "The minus first law of physics is: 'Bits are indestructible, information is forever'; in LIENHARD PAGEL: Information is Energy (2013), page 9.

³ This verse expresses that humans do not exist by chance, but were created by God. This creation has a purpose, namely to do good works that God planned before the creation of humans. Humans should therefore follow the paths and works prescribed by God.

Verses 1-9 in Ephesians 2 describe how humans were separated from God through their own deeds and unbelief. But through God's grace and through faith in Jesus Christ, they are reconciled with God and called to a life marked by good works that God has prepared for them.

⁴ This passage clearly expresses that God alone is worthy of praise, honor, and power, since He is the Creator of all things.

⁶ Deuteronomy 32:10: He found him in a desert land, in a barren and howling waste.
He encircled him, He cared for him, He kept him as the apple of His eye.

⁷ To be in you, God, is everything. That is the whole, the perfect, the healing. Close the eyes of the body, open the eyes of the heart, and enter into your presence. I take myself out of all distraction and entrust myself to you. I lay myself down in you as in a great hand. I do not need to speak for you to hear me. I do not need to list what I lack or tell you what is happening in this world and why we need your help. To be in you, God, is all I ask. With that, I have asked for everything I need for time and eternity.

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To you, God, we entrust ourselves in time and eternity.

The Bible verses make it clear that God and Jesus Christ are the sole source of glory, honor, and power and therefore should be worshiped and honored without restriction.