Wetware (brain)

Wetware is a term drawn from the computerrelated idea of hardware or software, but applied to biological life forms.

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Usage

The prefix "wet" is a reference to the water found in living creatures. Wetware is used to describe the elements equivalent to hardware and software found in a person, especially the <u>central nervous system</u> (CNS) and the human <u>mind</u>. The term wetware finds use both in works offiction, in scholarly publications and in popularizations [1]

The "hardware" component of wetware concerns the <u>bioelectric</u> and <u>biochemical</u> properties of the CNS, specifically the <u>brain</u>. If the sequence of impulses traveling across the various <u>neurons</u> are thought of symbolically as *software*, then the physical neurons would be the *hardware*. The amalgamated interaction of this *software* and *hardware* is manifested through continuously changing physical connections, and chemical and electrical influences that spread across the body. The process by which the *mind* and *brain* interact to produce the collection of experiences that we define aself-awareness is in question.

History

Although the exact definition has shifted over time, the term *Wetware* and its fundamental reference to "the physical mind" has been around at least since the mid-1950s. Mostly used in relatively obscure articles and papers, it was not until the heyday of <u>cyberpunk</u>, however, that the term found broad adoption. Among the first uses of the term in popular culture was the <u>Michael Swanwick</u> novel *Vacuum Flowers* (1987).

Rudy Rucker references the term in a number of books, including one entitle *Wetware*:

... all sparks and tastes and tangles, all its stimulus/response patterns – the whole bio-cybernetic software of mind.

Rucker did not use the word to simply mean a brain, nor in the human-resources sense of employees. He used *wetware* to stand for the data found in any biological system, analogous perhaps to the firmware that is found in a <u>ROM</u> chip. In Rucker's sense, a seed, a plant graft, an embryo, or a biological virus are all wetware. DNA, the immune system, and the evolved neural architecture of the brain are further examples of wetware in this sense.

Rucker describes his conception in a 1992 compendium "The Mondo 2000 User's Guide to the New Edge", which he quotes in a 2007 blog entry.^[2]

Early cyber-guru Arthur Kroker used the term in his blog^[3]

With the term getting traction in trendsetting publications, it became a buzzword in the early 1990s. In 1991, Dutch media theorist <u>Geert Lovink</u> organized the Wetware Convention in <u>Amsterdam</u>, which was supposed to be an antidote to the "out-of-body" experiments conducted in high-tech laboratories, such as experiments in intraction in trendsetting publications, it became a buzzword in the early 1990s. In 1991, Dutch media theorist to the "out-of-body" experiments conducted in high-tech laboratories, such as experiments in intraction in trendsetting publications, it became a buzzword in the early 1990s. In 1991, Dutch media theorist to the "out-of-body" experiments conducted in high-tech laboratories, such as experiments in trendsetting publications, it became a buzzword in the early 1990s. In 1991, Dutch media theorist to the "out-of-body" experiments conducted in high-tech laboratories, such as experiments in the early 1990s.

<u>Timothy Leary</u>, in an appendix to *Info-Psychology* originally written in 1975–76 and published in 1989, used the term *wetware*, writing that "psychedelic neuro-transmitters were the hot new technology for booting-up the 'wetware' of the brain". Another common reference is: "Wetware has 7 plus or minus 2 temporary registers." The numerical allusion is to a classic 1957 article by George A. Miller, *The magical number 7 plus or minus two: some limits in our capacity for processing information*, which later gave way to the Miller's law.

See also

- Biohacker
- Grindhouse Wetware
- Biopunk
- Brain-computer interface
- Cybernetics
- Cyberware

- Intelligence amplification
- Liveware
- Meatspace
- Neurotechnology
- Philosophy of mind
- Wetware computer

References

- Rudy Rucker (1988). Wetware (Print (Paperback)). Ware Tetralogy. Joe Devito (cover art). Avon Books (USA).
 p. 183. ISBN 0-380-70178-2
- 2. "Blog: What is Wetware?" (http://www.rudyrucker.com/blog/2007/08/25/what-is-wetware/)
- 3. Kroker, Arthur (1993). "RU wetware?" A texton his "ctheory" web site. Retrieved from http://www.ctheory.net.

Bibliography

External links

- Rat-brain robot aids memory study
- "Illegal Knowledge" A text about wetware written by the writers' collective of which Lovink was a part

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