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Harper Encyclopedia of the Modern World: A Concise Reference History from 1760 to the Present (1970) online Milward, Alan S. and S. B. Saul, eds. The economic development of continental Europe: 1780-1870 (1973) online; note there are two different books with identical authors and slightly different titles. Their coverage does not overlap. Milward, Alan S. and S. B. Saul, eds. The development of the economies of continental Europe, 1850-1914 (1977) online The Wallace Collection, London, houses one of the finest collections of 18th-century decorative arts from France, England and Italy, including paintings, furniture, porcelain and gold boxes. Media related to 18th century at Wikimedia Commons Retrieved from " 4 The following pages link to 18th century External tools (link count transclusion count sorted list) - See help page for transcluding these entries Showing 50 items. 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Your generated images will be more polished than ever.See What's NewExplore how consumers want to see climate stories told today, and what that means for your visuals.Download Our Latest VisualGPS Report Perhaps you've seen someone dowsing or tried it yourself. Some people use a Y-shaped twig or rod to find buried pipelines, leaks or places in the ground with a lot of water.Above the place where water is suspected to be, the rod pulls towards the ground, as if being drawn by a mysterious force. What is actually happening here?Svein Tømmerdal from Leksvik in Trøndelag county is one of the people who find water with dowsing rods. He prefers to use birch, because it is tougher.He explains that he holds the twig ends in front of him with a firm grip, with his thumbs out to the side."If I come across water, the twig goes up for me. For some dowsers, it goes down." "You have to have a fairly firm grip. The twig twists the bark, at least in the spring," Tømmerdal says.Tømmerdal can find veins with water or good places to build a well using the dowsing rod.He also says he is able to precisely measure the depth of the veins with the help of the rod. He takes a few steps to the side, and when the twig dips again, he can calculate the depth by imagining a right-angled triangle.Tømmerdal believes that there isn't an explanation for what makes the rod move. Not everyone who tries dowsing gets a reaction."We must have something in us that receives the radiation or the energy," he says, wondering.Could there be something to dowsing?Arnt Inge Vistnes has also wondered what it is that makes someone get dowsing results. He is one of only a few people in Norway to have researched dowsing.Is there anything special in the places where it happens? Or, he wondered, could it have something to do with magnetic or electric fields that affect the body?Perhaps some people are sensitive enough to notice these forces?Vistnes had the requisite background to find some answers. He is a physicist and now professor emeritus at the University of Oslo.Dowsing was not an unknown concept for him."My grandfather did it in a big way and my great-grandfather did too. You could say it's in the family," Vistnes says. Dowsing is an old tradition. Here is an illustration from the 18th century. (Image: Thomas Pennat / Wikimedia Commons) Earth ray radiationVistnes' great-grandfather was a naturopath. So was his grandfather, who was called "Second Sage." He used a dowsing rod to detect the earth's radiation. He would neutralize the earth rays in an area, alleviate health ailments. Earth radiation is a non-scientific term that has been used to explain what causes a dowsing rod to locate water. It has been suggested that earth radiation occurs where there are water veins. Arnt Inge Vistnes' grandfather, Av Vistnes, was an experienced dowser. (Photo: Private) Others have suggested that earth ray radiation is like an underground net, independent of water, and that it has an impact on health."My grandfather had so-called supernatural abilities and in a way was the 'man with warm hands' of the time. He had a lot of success with dowsing," says Vistnes.Caught his grandfather red-handedVistnes himself had mixed feelings about the practice."I caught my grandfather red-handed once as a child when he was going to neutralize earth rays."He was going to demonstrate a new and effective remedy at my father's home. He said that there were two ways it could be set up: one worked, the other did not.First he set it up so that it didn't work."When he walked through the house he found earth radiation the whole way," says Vistnes."Then my grandfather set it up so that it should work. When he walked around he found no earth radiation in the house." "What he didn't know was that I had switched things around so that it wouldn't work."Initiated experimentVistnes reflected on the episode afterwards."At the same time, this whole matter sat so deep in me, that even though I was a little sceptical, I believed that there might still be something there," he says.Vistnes recently wrote about his experiences in the latest issue of the journal *Fra fysikkens verden* (From the World of Physics), which is published by the Norwegian Physical Society.In the 1980s, he set up a large-scale experiment.Vistnes first wanted to find out whether dowsers would actually find earth radiation in the same places. Afterwards, his plan as a physicist was to investigate whether there was anything special about the places the majority of dowsers had pointed out. Arnt Inge Vistnes is Professor Emeritus at the university of Oslo. (Photo: Private) Could it be that they were discovering places with weak electric and magnetic fields, for instance?No one agreedTwenty-five well-known dowsers joined the experiment. They conducted a survey in one corridor. The zones where the dowsers had a reaction were noted. The experiment was double-blind, and the subjects were not told where the others had found something.It wasn't visible. Containers that either held water or were empty were hidden in boxes.
Neither Randi nor any of the other involved parties knew whether the rod was dipping over a full or an empty water container."We did this all day long. Only when the results came in were we told that the dowser had only found water around 50 per cent of the time, about the same result as he would have had if he'd flipped a coin." says Tunstad.You can watch a video of the experiments arranged by James Randi with dowsers in Australia here. Metal L-roads are sometimes used instead of Y-roads or twigs. (Photo: Alexandre Linon / Shutterstock / NTB) Mining and treasure huntingSome people use a pendulum or L-shaped metal rods, instead of a Y-rod or twig to look for the hidden items.In addition to searching for water, people have used rods to find other things, such as burial sites and metals.When did dowsing start?Johannes Dillinger is a professor of early modern history at Oxford Brookes University and has researched the history of the dowsing rod.He says the dowsing rod appeared in the late Middle Ages in Germany in connection with the mining industry.The book *De re metallica* is a textbook on mining from 1556 and is one of the earliest known texts that mention dowsing.The author, Georgius Agricola, wrote that rods were sometimes used to find mineral veins. But he wasn't positive about the practice, says Dillinger."He rejected the idea, saying it's below the dignity of a decent miner to use dowsing," Dillinger said.Its use became more widespread in the 17th century, then mainly as a tool for finding hidden treasures."Treasure hunting was actually the most important use of dowsing rods in the pre-modern period," Dillinger says. Twenty dowsers participated.A pipe was dug into the ground, with the water supply to the pipe turned either on or off. The participants had to find out whether there was water in the pipe or not with the help of a dowsing rod. The dowsers did 30 tests each.The results were no better than what you would expect from random guessing. The experiment has not been published in a scientific journal, but was described in an article in the magazine *Skeptiker* in 1991. Controlled experiments have not yielded any better results than what you would expect by chance. 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