

Unconventional/Energetic Practices and Therapies for Organic Farming

An Information Package and Resource Guide

November 2006

This information package and resource list was prepared by George Kuepper to address questions from ATTRA clients about several unconventional practices used in organic and sustainable crop and livestock production. It is NOT a formal publication of the ATTRA project. ATTRA publications referenced can be accessed at <www.attra.ncat.org>.

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Introduction

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Allopathic medicine Conventional medicine and medical modalities. The term is used to distinguish it from homeopathic medicine (see **Homeopathy**).

Arcane Secretive or esoteric.

Modality A method or manner of doing things.

Organic As used here, organic refers to agricultural production as defined by the National Organic Standard, 7 CFR 205. The Organic Standard prohibits the use of most synthetic pesticides, herbicides, and fertilizers. It also prohibits antibiotics, synthetic hormones, and many commonly-used veterinary medicines.

Paradigm or world view An assumption about how the world works; a frame of reference for interpreting reality.

Placebo effect A psychosomatic change or “cure” that results when a person is given an inactive or inert substance that they have been told or believe is medicine.

Why bother with this...?

This information package and resource list deals with several controversial practices, procedures, and modalities that are generally dismissed by conventional agriculture. It discusses veterinary homeopathy, acupuncture, radionics, and related methods that do not make sense when viewed through the lens of contemporary agricultural or veterinary science.

There are several reasons why I am addressing these topics. The first reason is a simple one – quite a few ATTRA clients use one or more of these approaches or are simply curious and ask questions about them. This is not surprising, since energetic practices and therapies have long been a reality of sustainable and organic agriculture.

Ignoring unfamiliar or uncomfortable subjects does not make them go away. I feel there is more value in understanding. When the rationale (faulty or not) behind the use of unconventional modalities is better understood, everyone is wiser. And the farmer is better equipped to accept or reject their use on the farm.

Another reason for addressing energetic practices and alternative therapies is a very timely one. The USDA’s National Organic Standard puts significant constraints on the use of conventional medications in livestock production.¹ On one hand, this compels farmers to develop healthy, low-stress production systems that promote vitality and natural immunity in livestock – a very good thing, reflecting the best traditions and tenets of organic agriculture. On the other hand, these constraints leave organic farmers with few treatment options on those occasions when livestock become sick or injured. If they resort to antibiotics or other prohibited medications, the treated stock loses organic status and must be sold in the conventional market with a loss of premium. The unconventional therapies discussed here are allowed in organic production, and producers are frequently encouraged to adopt them. Organic farmers need good, basic information to determine whether any of these modalities would meet their needs and fit into their farm management strategies. With this publication, we hope to provide a first step in that direction.

As a practitioner of radionics and dowsing for almost two decades, I have personal experience with several of these modalities and used them for several years in the management of a commercial horticultural farm. Because of this familiarity, I will frequently use the first person from this point forward. With that said, I also want to make it clear that it is not my goal, with this document, to promote unconventional practices and therapies or to convince you of their validity. My goal is to *explain* not to *advocate*.

In my efforts to explain, I present some concepts that are common to all of these modalities. All of them rest on a foundation of understanding that is important to grasp if you wish to understand the intent behind the method. I refer to this foundation of

understanding as the *vibrational* or *energetic* world view or paradigm. It is based on the knowledge that everything in our universe vibrates at identifiable frequencies, and that manipulating these frequencies in a living organism can change a diseased state to vibrant health. The vibrational world view I present here is a collective representation of how the practitioners of unconventional modalities think and how they believe the world works. But please understand that my presentation is oversimplified. There are many fine points that I gloss over. Specialists in these practices and therapies will find much to criticize, I'm certain.

Barriers to Understanding

In his excellent book *The Web That Has No Weaver*, Ted Kaptchuk describes two common attitudes that prevent many people from understanding traditional Chinese medicine, a system that includes acupuncture. In the first case, cures or other claims of success are dismissed as luck, coincidence, or as placebo effect. In the second case, cures are viewed as miraculous, and the methods used are treated as magical, supernatural, and even religious. Both attitudes ignore the fact that "Chinese medicine is a coherent and independent system of thought and practice that has been developed over two millennia."² I mention this because these same attitudes inhibit understanding of other unconventional practices, modalities, and systems as well. Like traditional Chinese medicine, these also emerge from different, but well thought-out notions of reality.

How to Read this Document

This information package specifically addresses homeopathy, flower-essence therapy, acupuncture, reiki, dowsing, radionics, and moon signs. If you don't want to read everything, but still want to get a grasp of vibrational concepts, I encourage you to read the sections titled **Homeopathy**, **Acupuncture**, and **Dowsing and Radionics**, at the very least. These three sections provide most of the foundational ideas.

I've intentionally excluded herbal therapies from this package, because most herbal remedies have clear biochemical bases for veterinary use and readily lend themselves to conventional scientific evaluation. In fact, many conventional medications are derived directly from herbs or are synthetic copies of botanically-derived chemicals. Though herbal therapies are often labeled "alternative," they have a firm footing in conventional science and veterinary medicine, and are not nearly as controversial as the modalities addressed here.

Herbal medicine aside, I've chosen to address only the more common energetic and alternative modalities currently used in organic agriculture. There are many more, but it is not my intention to be encyclopedic. The descriptions I've provided are only intended as a brief overview. The resources are listed primarily for their relevance to agriculture and/or their ability to explain practices and clarify basic concepts. In cases where I've had the opportunity to review a resource, or where additional descriptive information was available, I've added an annotation. I have purposely avoided listing resources that are heavily focused on non-agricultural applications, are too arcane, or too sensationalist, though there are a few exceptions. If you are aware of a suitable book,

video, organization, or other resource that should be listed here, please contact me. Contact information is provided on page 1.

Occasional reference is made to “Biodynamics” throughout the document. Biodynamic farming is an organic system that uses many of the unconventional practices discussed here. For more information, see ATTRA’s *Biodynamic Farming and Compost Preparation*, by NCAT agriculture specialist Steve Diver. Steve also has considerable information on other unconventional practices and systems and is a resource in his own right.

A Note About Panaceas and Whole Farm Integration

Energetic practices and modalities are intriguing. This is especially true for the novice, since they open the door for whole new ways of interpreting the world. While this is usually a good thing, it is important to keep perspective and both feet on the ground, if you want to run a successful farm.

These practices and therapies should not be viewed or promoted as panaceas – even by those fully convinced of their effectiveness. In my experience and that of others who use them, these modalities work most effectively within the context of a systems-management approach that reflects and reinforces natural processes. Their effects are subtle and cannot effectively counterbalance the consequences of continued high stress and unnatural living conditions for livestock, or soil mismanagement for crops; they cannot mask the unhealthy consequences of conventional systems, as is often done by using antibiotics and synthetic pesticides (see text box).

Traditional organic management works to build sound systems for crops and livestock. Theoretically, at least, this makes for a good match between organic farming and unconventional modalities.

Another factor to consider is the availability and accessibility to expertise or training in unconventional modalities – are there practitioners in the community or educators that can prepare the farmer to do the work him/herself? If educators are not available, are there training resources in print or on video? Table 1 provides a quick assessment of the practices and therapies covered in this publication with regard to these concerns. Further detail is provided in each section.

Table 1: Unconventional Practices and Therapies

Applications and Accessibility

	Livestock Applications	Crops & Soils Applications	Availability of Practical Farmer-Friendly Information	Availability of Local Instruction or self-training guides for safe On-Farm Use
Homeopathy	√√√	√	√√√	√√
Flower Essence Therapy	√√√	√	√√	√√√
Acupuncture	√√√	—	√	√
Reiki	√√√	√√	√	√
Dowsing	√√√	√√√	√	√√√
Radionics	√√√	√√√	√√	√
Moon Signs	√	√√√	√√√	√√√

Integrating Unconventional Practices and Therapies: A Veterinarian’s Viewpoint

Veterinarian Randy Kidd approaches livestock health from a holistic but hierarchical perspective, as depicted in Figure 1. Kidd believes that animal wellness begins with a foundation of systems management, genetics, healthy soil and water, and proper environment. He starts with this base and works his way up the pyramid. As one nears the top of the pyramid, the “cures” become more potent, but they also have the ability to cause more harm and mask the underlying causes of disease. Kidd is convinced that skipping any of the levels in a management system will lead to long-range negative consequences.³

A Holistic Approach To Livestock Wellness
(adapted from Randy Kidd, D.V.M., Ph.D., 1995)

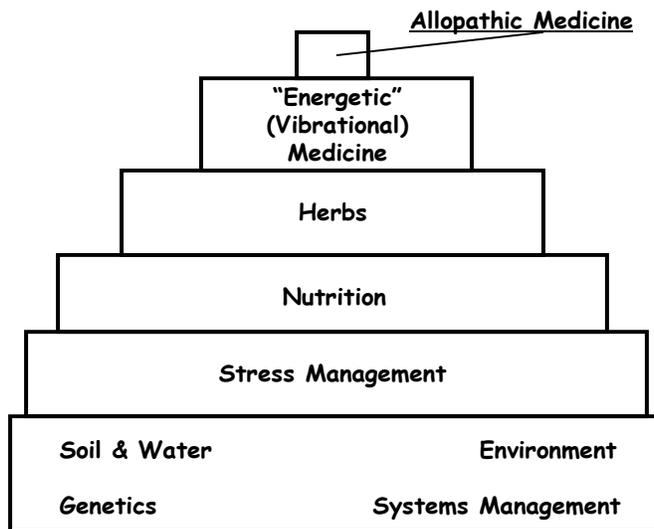


Figure 1

Resources: Introduction

Acres U.S.A./ Acres U.S.A. Bookstore
P.O. Box 91299
Austin, TX 78709
512-892-4400
512-892-4448 FAX
info@acresusa.com
www.acresusa.com

Acres U.S.A. magazine and the Acres U.S.A. Bookstore are frequently cited as sources for books and articles throughout this publication. It is not my intention to favor this vendor. However, it is a fact that Acres U.S.A. Publishing produces and distributes many books on the topics covered here. In addition, Acres U.S.A. magazine has, over the years, published dozens of articles on these subjects. Since they have a policy of making back issues available, several of those are listed among the available resources.

AltVetMed Web site
<http://altvetmed.org/>

This Web site features a wealth of information on alternative therapies, targeted primarily to the veterinary community.

Anthroposophic Press
P.O. Box 960
Herndon, VA 20172-0960
703-661-1594
800-856-8664
703-661-1501 FAX
service@steinerbooks.org
www.anthropress.org/

Source for Biodynamic and related books.

Biodynamic Farming and Gardening Association, Inc.
25844 Butler Rd.
Junction City, OR 97448
888-516-7797
541-998-0106 FAX
biodynamic@aol.com
www.biodynamics.com/

The BD Association is the most comprehensive source for books on Biodynamic agriculture, an approach that incorporates many of the unconventional modalities discussed in this publication. They also publish a fine journal, Biodynamics.

The Quantum Agriculture Project
Contact: James Johnson
2555 Mark West Station Road
Windsor, CA 95492

707-836-0699

shanjam@igc.org

A forum for new advances in all areas where quantum physics applies to agriculture.

International Alliance for Animal Therapy and Healing (IAATH)

P.O. Box 191

Jacobus, PA 17407

925-229-2133

www.iaath.com/index.html

An alliance of professional healers, therapists, concerned companies, and individuals dedicated to assisting in the maintenance, balance, and enhancement of the body, mind, and spirit of all animals.

Finding obscure and out-of-print books.

*A few of the books cited in the **Resources** and the **References** are currently out-of-print. You can always look for out-of-print titles in libraries and used book stores. However, there are now on-line services that can assist you. Among the better-known of these Web sites are:*

www.amazon.com

www.abebooks.com

www.powells.com

www.alibris.com

Homeopathy and Potentization

Glossary

Homeopathy or *homoeopathy* Homeopathic medicine is a medical science that uses naturally occurring substances of plant, mineral, or animal origin, which when taken in very small doses stimulate natural defenses or innate healing powers.⁴

Kirlian Photography Kirlian photography is a high voltage photographic technique being researched as a physiological and psychological diagnostic tool.⁵ Pioneered by Semyon and Valentina Kirlian.⁶

Nosodes Homeopathic remedies are created from the infected tissues, discharges, or organisms of a disease.⁷ Homeopathic nosodes are the functional equivalent of conventional vaccines. (See further discussion in **Flower Essence Therapy**.)

Potentization The pharmacological procedure in which remedies are created by alternately diluting a substance and vigorously shaking (*succussing*) it a specified number of times.⁸

Quantum physics (also *quantum mechanics*, *quantum theory*) The branch of physics that deals with the subatomic world and the protons, electrons, and other entities that comprise it.

Vibrational or *energetic medicine* An approach to healing that seeks to integrate and balance the higher-frequency energetic systems that create the physical matter.⁹

A Brief History of Homeopathy

Homeopathy is a good example of a modality developed for human medicine that has veterinary applications. Samuel Hahnemann (1755–1843) founded homeopathy and defined its basic principles at the turn of the 19th century. A German physician, Hahnemann was disillusioned with the state of medical practice in his day, in which treatments were often brutal and ineffective.¹⁰ Drawing on ancient concepts of healing that can be traced back to the Greek physician Hippocrates and the medieval Swiss alchemist Paracelsus, Hahnemann developed a safer and more successful approach that used very small doses of medication.¹¹

Though he developed it for human use, Hahnemann was the first to consider the veterinary use of homeopathy. He discussed it in an unpublished manuscript in the early 1800s. There was considerable interest in veterinary homeopathy later on, especially in the 1830s and 1840s. However, this interest lagged in the 1920s, when conventional medications were introduced. There has been a resurgence since the 1970s, spurred on both by growth in the organic industry and the demand for safer, alternative treatments for animals – pets in particular.¹²

The Foundations of Vibrational Medicine and the Causes behind Disease

Homeopathy is the most popular form of *vibrational* or *energetic* veterinary medicine. Vibrational medicine is an approach to healing that seeks to integrate and balance *the higher energetic systems that create the physical/cellular patterns of manifestation (i.e. matter)*.¹³ This is a complex definition and hard for the average person to understand. I'll try to simplify it a bit.

Vibrational medicine is grounded in the idea that, at the atomic level, everything in the universe vibrates at unique and identifiable frequencies. Diseases and the causes of diseases vibrate at undesirable frequencies. Vibrational therapies – like homeopathy – attempt to create beneficial frequencies that either neutralize an undesirable frequency, or enhance positive frequencies in a living organism, to bring about healing or increased vitality.

It is difficult for most of us to accept how homeopathy and other forms of energetic medicine are said to work. This is because practitioners of these modalities have a different understanding of how the world works that is considerably different from what is commonly held by Western science. These practitioners not only view nature in its obvious physical form, they also assume the existence of *higher energetic systems*. In their view, these energetic systems correspond with the physical forms of plants, animals, and other living things. These systems are said to be *subtle*, and in most instances are not detectable with standard scientific instruments. Most documented research on energetic systems has been done using technologies that are equally unconventional, such as Kirlian photography.

These subtle systems are sometimes presented graphically as an egg-shaped aura enveloping the subject (see Figure 2). This sort of visual representation is oversimplified. However, it is useful for explaining how homeopaths understand

disease and why they do what they do. For example, practitioners of vibrational veterinary medicine believe that disease begins as a blockage or dysfunction in the higher energetic system of the individual animal. This dysfunction eventually leads to a diseased state, and familiar disease symptoms appear in the animal (see Figure 3). Homeopathic remedies (and other vibrational therapies, for that matter) are intended to correct the subtle energy dysfunctions that practitioners believe to be the causes of disease. By removing the underlying cause of disease, homeopaths assert that the physical problems lose momentum, and the body is able to heal itself (see Figure 4).

It is important to understand that most homeopathic vets and conventional vets are likely to agree on the overt causes of disease – stress, poisons, the presence of pathogens, etc. The major difference is the homeopath’s belief in underlying energetic factors and the key role they play in disease development. This belief also sets the stage for the kinds of remedies that they recommend.

The vibrational or energetic view of nature is common to all of the unconventional systems discussed in this publication. When challenged to defend this view scientifically, practitioners often refer to quantum physics, which they feel explains the theory and practice of homeopathy and other alternative modalities. Quantum physics (also called quantum mechanics and quantum theory) is the branch of physics that deals with the subatomic world, and the protons, electrons, and other entities that comprise it.

Science has known for a long time that things work quite differently at the subatomic level. The laws of classical physics, describe how things work on the scale we can see and measure, but they do not apply when you venture into the subatomic realm. In fact, the reality of the subatomic world is vastly different, and some physicists feel it explains and supports the whole vibrational paradigm. If so, does it also validate homeopathy and other unconventional systems by extension? Maybe.

It is truthful to say that certain popular interpretations of quantum physics *do* lay a possible foundation for explaining homeopathy and related modalities. And practitioners are justified in referring to the various theories and experiments of quantum mechanics to explain what they do and why they do it. At the same time, it is important to recognize that not all physicists adhere to these interpretations, and many would deny that quantum theory supports homeopathy in any form or fashion.

In fact, the disagreement among physicists varies widely. As physicist and author Nick Herbert humorously writes: “One of the best-kept secrets of science is that physicists have lost their grip on reality.” Herbert goes on to list eight scientifically acceptable interpretations of reality based on quantum mechanics.¹⁴ It is not clear which of these interpretations represents the majority viewpoint of the quantum physics community. What is important to recognize is that even if the more liberal interpretations of quantum mechanics *do* support a vibrational worldview, it does not ensure that the individual practices of homeopathy, acupuncture, radionics, and other methods are actually effective. It only argues that they can work in theory. True efficacy needs to be documented through testing and practice. And history suggests there is at least something worth investigating in all these modalities.

Alternative Worldview: Correspondence Between the Physical and Non-physical

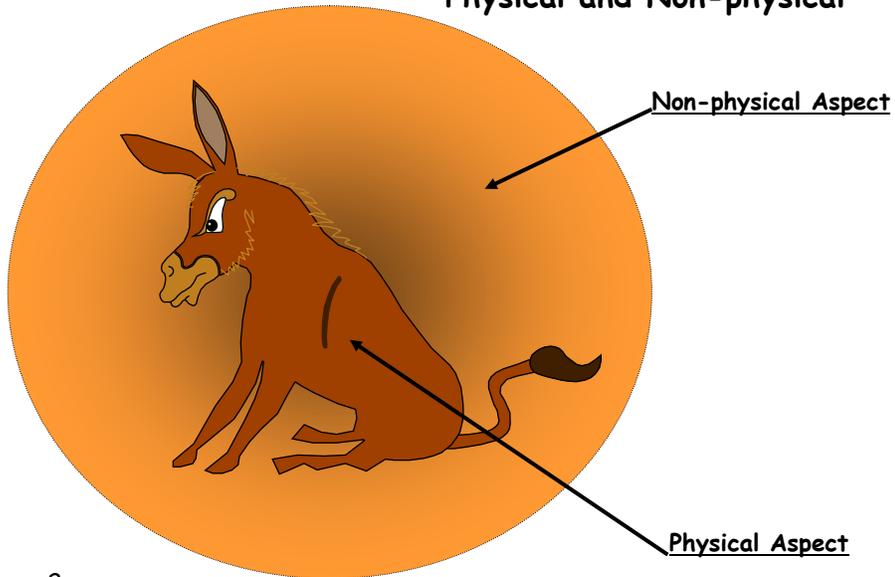


Figure 2

Alternative Theory of Disease Causation

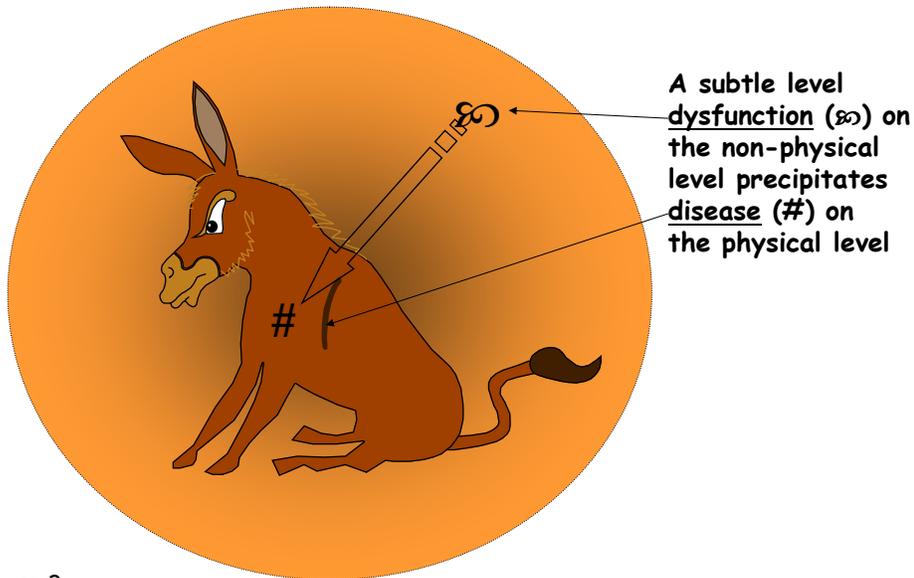


Figure 3

Alternative Strategy for Healing

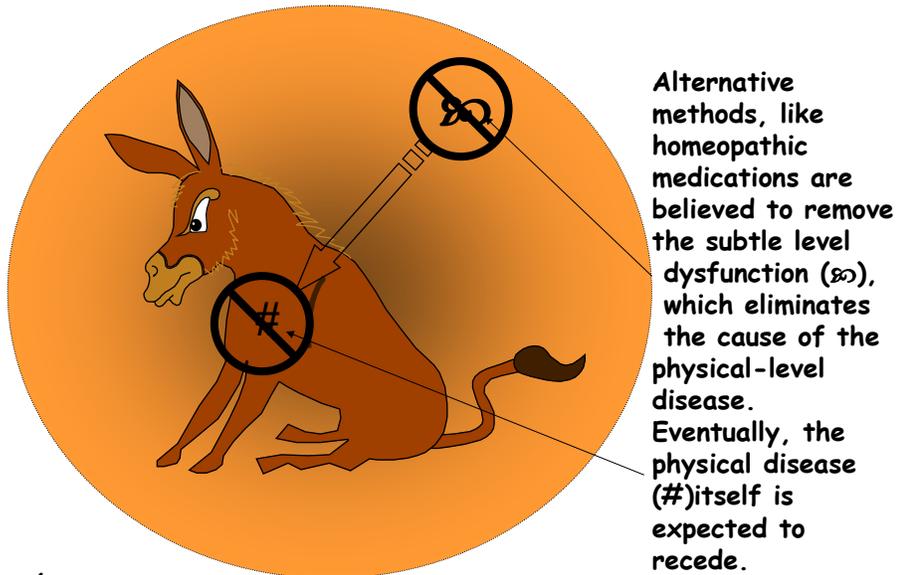


Figure 4

Homeopathic Veterinary Medicine

Homeopathic veterinary practice differs from conventional practice in its perception of the nature and causes of disease, in the remedies used, and in the understanding of how they are expected to work. This requires an understanding of *potentization*. Most homeopathic medicines are derived from natural substances—from plant, animal, microbial, or mineral sources. In some instances they are prescribed for direct use, but most are *potentized* first. In fact, classic homeopathic medicines are, by definition, potencies.

Potencies are vibrational medicines created by alternately diluting the original substance and agitating it—a procedure called *succussion*.¹⁵ For example, a drop of a plant extract might be diluted with 10 parts of distilled water in a glass vial. The vial is then vigorously shaken a number of times. The result is called a 1X dilution. Additional sequences of dilution and succussion may be performed to create a remedy of the desired “potency” to treat a particular condition. While it might appear counter-intuitive, the greater the number of dilutions, the more profound the effect expected.

Potencies are highly desirable remedies because they allow the use of otherwise harmful or dangerous substances that are made safe through the process of dilution. The reason such substances are used is best explained by the *law of similars*. The law of similars is summed up by the phrase “like cures like.” The theory holds that a remedy can cure a disease if it can produce symptoms in a healthy organism that are similar to those of the disease.¹⁶ In practice, this often means that the patient appears briefly to get worse

before recovery begins. If undiluted, non-homeopathic doses administered, the patient would likely be poisoned.

This approach highlights something else that distinguishes homeopathy from conventional allopathic medicine. In allopathic medicine the objective is to immediately alleviate the symptoms. This sometimes masks the causes behind disease and delays healing. By contrast, homeopathy uses and even prolongs symptoms to pursue the causes of disease.

The mode of action of homeopathic medications (also flower remedies, radionic treatments, and other vibrational therapies) is often described in terms of the *butterfly effect*. The butterfly effect in meteorology describes how a butterfly flapping its wings on one side of an ocean, might lead to a hurricane on the opposite coast. Whether the butterfly effect is a fact of meteorology or not, it is a near-perfect analogy for how vibrational therapies are understood to work. The initial changes they make are subtle, but the ultimate effect on the physical level can be large and profound. However, because the effect is subtle, a homeopathic medicine alone might not be effective enough when there is an acute disease problem – just as the beating of a butterfly’s wings has no consequence when done in the midst of a typhoon. In instances of acute health problems, additional therapies might well be necessary.¹⁷

In light of this, Homeopathic veterinarians *and* physicians do not limit themselves only to traditional homeopathic potentized medicines. Most have an expanded medicine chest that might include full-strength botanical and the like. They might also include other energetic medications such as the flower remedies (discussed in the following section) and cell salts. Cell salts are homeopathic preparations of mineral compounds found in all living tissues. The theory and rationale for the use of cell salts was first proposed by Dr. W.H. Schuessler in the 1870s.¹⁸ Schuessler continues to be credited as the founder of this modality.

Another related discipline that provides tools for the homeopath is *homotoxicology*. The brain child of Dr. Hans-Heinrich Reckeweg (1905–1985), homotoxicology emphasizes the clearing of self-generated body toxins using potencies and other natural remedies in non-traditional ways.¹⁹ An example of homotoxicological remedies are the *Heel homeopathic pharmaceutical compounds*, also known as *homochords*, that consist of multiple remedies at several potency levels.

In homeopathy and related disciplines, it takes considerable skill and knowledge to match remedies with symptoms. In classical homeopathic practice – human and veterinary – the diagnostic procedure is exacting. The practitioner takes considerable time evaluating the patient and the symptoms to identify the optimum remedy and its potency. In human patients, mental and emotional states are also considered, since the homeopath attempts to treat the whole individual. The remedies work best when selected for the particular individual, as opposed to being chosen by symptomology only.²⁰

Though homeopathic medications are easy to find, there are few trained livestock veterinarians in the field. This is also the case with most unconventional therapies. While it is always best to work with a trained professional, farmers are often on their own when it comes to prescribing and using homeopathics. Most school themselves in the basic principles of homeopathy and do the best they can with their own intuition, observation, and guidance from books and training manuals.

More on Potencies and Potentization

Homeopathic potency medicines are basically neutral carrier substances that are “imprinted” with vibrational patterns from an active agent, such as a botanical or a mineral. A potentized medicine is sometimes said to carry the “essence” of the active ingredient. The vibrational patterns of the potency are intended to correct energy dysfunctions in a patient.

In recent years there has been a small body of research on water and its ability to “remember” the substances that have been diluted in it, even after no molecules of the original substance theoretically remain. (This essentially describes a homeopathic potency.) Though controversial, research indicating that water can retain the “memory” of an active ingredient has been done by immunologist Jacques Benveniste of the University of Paris,²¹ physicist Louis Rey in Lusanne, Switzerland,²² and a team of chemists in South Korea.²³

Homeopathic medicines are not the only potencies used in alternative agriculture. Most of the “preparations” used in Biodynamic farming to treat plants, soil, and compost are potencies. The methods used to make these preparations are different from those used in homeopathy, though the end result is largely the same: a carrier substance is imprinted with healing or otherwise beneficial vibrational “information.” For further details on the Biodynamic preparations, ask for ATTRA’s *Biodynamic Farming and Compost Preparation*.

Those Mystical Trappings

For many years, one of the least-acknowledged barriers to adopting organic farming was its image. Ever since the 1960s, organics has been associated with the counterculture, left-wing politics, and radical lifestyles. It has taken conservative American farmers quite a few years to realize they needn’t become hippies to farm ecologically or to enter and compete in the organic marketplace.

A similar cultural barrier exists to the adoption of energetic practices and therapies. This barrier is built on the notion that, with unconventional practices, you must take on a whole host of exotic new beliefs and, in effect, “change your religion.” While not true, there are reasons that people make this association. If you spend much time with the practitioners of many of these modalities, you quickly discover that they are as likely to explain what they’re doing in mystical terms as they are to cite quantum physics. It can be disconcerting, if you’re not of that ilk, but it is neither surprising nor a contradiction.

If you look at the popular science shelf in your local bookstore, you are bound to find a number of titles that correlate quantum physics and mysticism. You will find that

quantum mechanics is being used as much to explain Eastern and Western mystical traditions as it is to explain unconventional modalities. The result is a sort of cross-rationalization (Figure 5). So when a homeopathist explains the action of a remedy using the language of religion, he or she is reaching out to a form of explanation that is familiar. So, just as you can forego a radical lifestyle change as an organic farmer, you are free to use unconventional practices without delving into mysticism.

Still, for some, the association of unconventional modalities with unfamiliar belief systems is too uncomfortable to bear. If this is the case with you, then you are encouraged to seek alternative approaches that you understand and relate to comfortably. Rest assured, organic agriculture encompasses a broad range of systems and practices that you can choose from. No one is *required* to use vibrational or energetic practices.

Vibrational World View

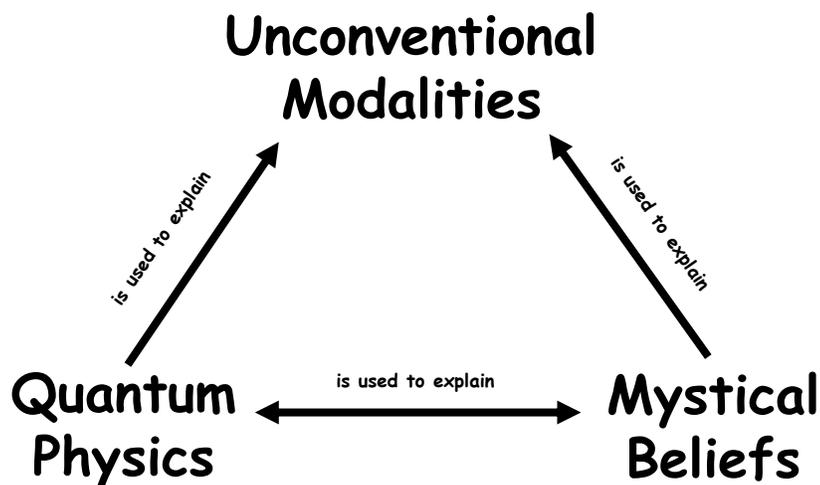


Figure 5

Resources: Homeopathy

Veterinary Homeopathy: print/video resources

There is an abundance of practical information on the veterinary use of homeopathy. I have only listed publications that deal with agricultural animals. There are many more books, articles, and Web sites that address homeopathic treatment of pet animals. These are easy to find using a Web search.

Alternative and Herbal Livestock Health Sourcebook (2000), by Tom Morris and Michael Keilty. University of Connecticut, Storrs, CT.

www.canr.uconn.edu/plsci/AHLH%20SB-Web.pdf

A guide for Extension educators. Much of the sourcebook focuses on the use of herbs. There is a section on Homeopathy by Dr. Edgar Schaeffer, DVM.

Alternative Treatments for Ruminant Animals (2004), by Paul Dettloff D.V.M. Acres U.S.A., Austin, TX. 246 p.

*Dr. Dettloff is a well-known veterinarian in Wisconsin and a resource to the regional organic farming community. His 246-page book addresses practical treatments – including homeopathy – for a wide range of conditions. Available from the Acres U.S.A. Bookstore (see **Resources: Introduction**). As of 2005, articles by Dr. Dettloff have also been published in Acres U.S.A. magazine.*

Approaches to the Treatment of Diseased Animals (2004), by Mette Vaarst, Andrea Martini, Torben Werner Bennedsgaard, and Lisbeth Hektoen. In: **Animal Health and Welfare in Organic Agriculture** (2004), edited by M. Vaarst, S. Roderick, V. Lund, and W. Lockeretz.

CABI Publishing
875 Massachusetts Ave., 7th Floor
Cambridge, MA. 02139
617-395-4056
www.cabi-publishing.org/

The Homoeopathic Treatment of Beef & Dairy Cattle (1994), by Christopher Day. Beaconsfield Publishers, Beaconsfield, Bucks, UK. 141 p.

The Homoeopathic Treatment of Small Animals (2004), by Christopher Day. C.W. Daniel Co., Walden, Essex, U.K. 232 p.

*Both books are available from the Acres U.S.A. Bookstore (see **Resources: Introduction**).*

Natural Cattle Care (2001), by Pat Coleby. Acres U.S.A., Austin, TX. 198 p.

Natural Goat Care (2001), by Pat Coleby. Acres U.S.A., Austin, TX. 374 p.

Natural Horse Care (2001), by Pat Coleby. Acres U.S.A., Austin, TX. 164 p.

*All three books include homeopathic recommendations. They are available from the Acres U.S.A. Bookstore (see **Resources: Introduction**). There is also a good interview with Dr. Coleby in the August 2003 issue of Acres U.S.A. magazine.*

The Treatment of Cattle by Homoeopathy (2004), by Dr. George Macleod. C.W. Daniel Co., Walden, Essex, U.K. 284 p.

Pigs: The Homoeopathic Approach to the Treatment and Prevention of Diseases (2004), by Dr. George Macleod. C.W. Daniel Co., Walden, Essex, U.K. 150 p.

Goats: Homoeopathic Remedies (2004), by Dr. George Macleod. C.W. Daniel Co., Walden, Essex, U.K. 172 p.

The Treatment of Horses by Homoeopathy (2004), by Dr. George Macleod. C.W. Daniel Co., Walden, Essex, U.K. 200 p.

A Veterinary Materia Medica & Clinical Repertory (2004), by Dr. George Macleod. C.W. Daniel Co., Walden, Essex, U.K. 193 p.

*Despite the 2004 copyright dates, Macleod's books on veterinary homeopathy have been around for some time. They were among the first available on the subject. All titles are available from the Acres U.S.A. Bookstore (see **Resources: Introduction**).*

Homeopathic First Aid for Horses (2003), by Joyce Harman D.V.M.. MR-CVS. 30 p.
*Available from the Acres U.S.A. Bookstore (see **Resources: Introduction**).*

Homeopathy for the Herd: A Farmer's Guide to Low-Cost, Non-Toxic Veterinary Care of Cattle (2003), by C. Edgar Schaeffer. 206 p.

*Available from the Acres U.S.A. Bookstore (see **Resources: Introduction**). Dr. Schaeffer has also been a frequent contributor to Acres U.S.A. magazine. His articles appear under the subtitle *The Natural Vet: Holistic Livestock Healthcare*, along with other respected veterinarians. This series goes back at least to July 1995. There is also an interesting interview of Dr. Schaeffer in the December 1996 issue.*

A Healthy Horse the Natural Way (2002), by Catherine Bird. The Lyons Press, Guilford, CT. 240 p.

Available from amazon.com.

Homoeopathic Handbook for Dairy Farming (2002), by Tineke Verkade. 114 p.

*Available from Homoeopathic Farm Support, Ltd. of New Zealand. See: <http://farmsupport.co.nz/handbook.htm>. Also available from Acres U.S.A. Bookstore (see **Resources: Introduction**).*

Do-it-yourself Homeopathy by Julie Ann Lee DCHom.

www.adoredbeast.com/nov99_2.shtml

Reprinted from the November 1999 issue of Alive, Canadian Journal of Health and Nutrition. A page of recommended remedies for first aid and stress situations.

Homoeopathy in Veterinary Practice (1987), by K.J. Biddis. Rider Publishing. 85 p.

*A handbook that also incorporates Treatment of Goats by Homoeopathy (1980), by George Macleod. Available from the Acres U.S.A. Bookstore (see **Resources: Introduction**).*

Organic Dairy Farming (2006), edited by Jody Padgham. Orang-utang Press, Gays Mills, WI. 156 p.

Provides bits of information on Homeopathy in the context of organic dairy farming. Available from: MOSES, P.O. Box 339, Spring Valley, WI 54767, 715-772-3153

The Pocket Manual of Homeopathic Veterinary Medicine (2002), by Edwd. H.

Ruddock. B. Jain Publishers, Ltd., New Delhi, India. 151 p.

Available from Michael Fields Agricultural Institute, W2493 County Road ES, East Troy, Wisconsin, 53120, 262-642-3303.

Proceedings of the 1st IFOAM International Conference on Animals in Organic Production (2006), edited by Omkar Gopalakrishnan, Luca Melotti, Julia Ostertag, and Neil Sorensen. IFOAM, Bonn, Germany. August.

Contains at least two articles on the use of Homeopathy for animal health care in organic Systems: "The use of Homeopathy on an organic livestock production farm," by Glen Dupree, DVM., and "Practical on-farm applications of organic herd health tools," by Andrew Luft, DVM. Available from IFOAM, <www.ifoam.org>.

Remedies for Common Health Problems of the Organic Laying Flock (c2004), by Karma E. Gloss.

Available from the author at: Kingbird Farm, 9398 West Creek Rd., Berkshire, NY 3736, 607-657-2860, Karma@kingbirdfarm.com.

Treating Dairy Cows Naturally: Thoughts and Strategies (2004), by Hubert J. Karreman, V.M.D. Paradise Publications, Paradise, PA. 268 p.

*Dr. Karreman has a long history of veterinary practice in Pennsylvania, including service to organic producers in Pennsylvania. In 2005 he was appointed to the National Organic Standards Board. The book is available from Acres U.S.A. Bookstore (see **Resources: Introduction**).*

Potentization

Agriculture of Tomorrow, 2nd Edition (1978), by Eugen and Lilly Kolisko. Kolisko Archive Publications, Bournemouth, U.K. 322 p.

Selections from the Kolisko's early work on Biodynamic farming. Many experiments focus on potentization. Currently out-of-print.

The Basis of Potentization Research (1988), by Theodor Schwenk. Mercury Press, Spring Valley, NY. 93 p.

*Available from the Biodynamic Farming and Gardening Association (see **Resources: Introduction**).*

Crystal Healing for Animals (2002), by Martin J. Scott and Gael Mariani. Findhorn Press, Findhorn, Scotland. 142 p.

*Part II features a nice step-wise procedure for making potencies from crystals. Available from Anthroposophic Press (see **Resources: Introduction**).*

Dynamization – Potentization of Medicines in Homeopathy (No date), by William.E.Thomas, MD.

Can be found at: www.angelfire.com/mb2/quinine/dynamization.html.

The Infinitesimal Dose: The Scientific Roots of Homoeopathy (1994), by Colin B. Lessell. 128 p. C.W. Daniel Co. Ltd., Essex, U.K. 128 p.

Easy to read presentation explaining potentization. Available from amazon.com.

Vibrational Water, by Steve Diver. www.nationalwatercenter.org/vibrational_water.htm

A resource list compiled for the National Water Center..

Veterinary Homeopathy: Schools/Associations

Academy of Veterinary Homeopathy (AVH)

751 NE 168th St.

North Miami, FL 33162-2427

305-652-5372

webmaster@acadvethom.org

www.theavh.org/

American Holistic Veterinary Medical Association (AHVMA)
2218 Old Emmorton Rd.
Bel Air, MD 21014
410-569-0795
AHVMA@compuserve.com
www.ahvma.org/

International Association for Veterinary Homeopathy (IAVH)
Contact: Jackie S. Obando
2707 76th Ave., SE
Mercer Island, WA 98040
206-232-7667
drobando@comcast.net
www.iavh.at/

Quantum Physics

In my efforts to better understand the modalities I practice – radionics and dowsing – I read a number of popular books on quantum physics. There is an abundance of these in both new and used bookstores. I confess, as a non-physicist, I found even the most basic writings difficult to understand. I have included a short list of those I found most helpful and readable. Most titles focus on interpretations of quantum mechanics that would support the world view common to unconventional practices and therapies. If not available through local bookstores or libraries, try the Web sites for used books provided in **Resources: Introduction**.

The Holographic Universe (1991), by Michael Talbot. HarperCollins, New York, NY. 338 p.

Human Intentionality in Agriculture: Bringing Quantum Physics to the Farm (2005), by Phil Wheeler. Acres U.S.A., March. p. 16-18.

Infinite Mind: Science of the Human Vibrations of Consciousness (1996), by Valerie Hunt. Malibu Publishing Co., Malibu, CA. 364 p.

Mysticism and the New Physics (1992), by Michael Talbot. Arkana/Penguin Books, New York, NY. 185 p.

Quantum Reality: Beyond the New Physics (1985), by Nick Herbert. Bantam Doubleday Dell Publishing Group, New York, NY. 268 p.

Quantum Theology: Spiritual Implications of the New Physics (1998), by Diarmuid O'Murchu. The Crossroad Publishing Co., New York, NY. 227 p.

Recovering the Soul: A Scientific and Spiritual Search (1989), by Larry Dossey. Bantam Books, New York, NY. 319 p.

Schrödinger's Kittens and the Search for Reality: Solving the Quantum Mysteries (1995), by John Gribbin. Little, Brown, and Company, New York, NY. 261 p.

Science and the Akashic Field: An Integral Theory of Everything (2004), by Ervin Laszlo. Inner Traditions, Rochester, VT. 205 p.

Science, Sense, & Soul: The Mystical-Physical Nature of Human Existence (2001), by Casey Blood. Renaissance Books, Los Angeles, CA. 317 p.

Stalking the Wild Pendulum: On the Mechanics of Consciousness (1977), by Itzhak Bentov. Bantam Books, New York, NY. 237 p.

Synchronicity: The Bridge Between Matter and Mind (1987), by F. David Peat. Bantam Books, New York, NY. 245 p.

Where Science & Magic Meet (1991), by Serena Roney-Dougal. Element, Rockport, MA. 275 p.

Flower Essence Therapy

Glossary

Flower essences The liquid potentized energies of flowers, captured in a carrier of water and brandy.²⁴ (For information on potencies, see **Homeopathy**)

Nosodes Homeopathic remedies created from the infected tissues, discharges, or organisms of a disease.²⁵ Homeopathic nosodes are the functional equivalent of conventional vaccines.

Discussion

Though it involves the use of botanicals, flower-essence therapy has more in common with homeopathy than with traditional herbal therapies. Unlike standard herbal remedies, which are prescribed to work directly on physical maladies, flower essences are intended to address the emotional, mental, and spiritual factors that practitioners believe to be root causes of disease. Thus, flower essences, like homeopathic remedies, set the stage for healing to occur, they do not cause it directly.

The rationale behind flower-essence therapy is consistent with the homeopathic theory of disease. The “emotional, mental, and spiritual factors” targeted by flower essence therapy are considered by homeopaths to be the major sources of vibrational dysfunctions described in the preceding section on homeopathy. In fact, it appears that many homeopaths include flower essences in their medicine chest – using them either directly or as base materials to create potencies. As a result, flower essences are sometimes glossed over in discussions about homeopathy for animal health.

Edward Bach (1886–1936) established flower essence therapy as a systematic approach to healing. Initially trained as a physician at University College, London, and at Cambridge, Bach became involved in the development of many early human vaccines. Disillusioned by the side-effects of his vaccines and by the philosophy of conventional medicine, Bach studied and became a homeopathic doctor. His subsequent work led to the development of the Bach *nosodes*. Many practitioners consider Bach one of the greatest contributors to the advance of homeopathy since Samuel Hahnemann. Toward the end of his career, he developed what is the classic set of 38 flower essences for the treatment of the root causes of disease.^{26,27,28} Since that time, many more essences have been researched and developed by others.

Flower essence medicines might be true essences, though some sources describe them as tinctures.²⁹ There appears to be general agreement that flower essences are totally safe and do not interfere with other medications.³⁰ As with homeopathy, farmers are often on their own when diagnosing conditions and choosing among these medications.

Resources: Flower-Essence Therapy

Commercial flower essence products are liquid formulations, sold in small eye-dropper bottles. The Bach essences are fairly easy to find in health food outlets. Information on their veterinary use is somewhat limited. Most of what I found in print is intended for pet animals.

Bach Flower Remedies for Animals (1997), by Helen Graham and Gregory Vlamis. Findhorn Press Ltd., Findhorn, Moray, UK. 128 p.

Available from amazon.com.

Complete Holistic Care and Healing for Horses: The Owner's Veterinary Guide to Alternative Methods and Remedies (2004), by Mary Brennan and Norma Eckroate.

Trafalgar Square Publishing, North Pomfret, VT. 356 p.

Available from amazon.com.

Flower Essences for Animals: Remedies for Helping the Pets You Love (2000), by Lila Devi. Beyond Words Publishing, Hillsboro, OR. 272 p.

Available from the publisher.

Beyond Words Publishing
20827 N.W. Cornell Rd., Suite 500
Hillsboro, OR 97124
503-531-8700.

Treating Animal Illnesses & Emotional States with Flower Essence Remedies (1998), by Jessica Bear and Tricia Lewis. Richman Rose Publishing. 82 p.

Available from the publisher.

Richman Rose Publishing
P.O. Box 7766
Atlanta, GA 30357-0766
800-871-4996.

Bach Flower Remedies for Animals (1999), by Stefan Ball and Judy Howard. C.W. Daniel Co., Saffron, Essex, UK. 162 p.

This book features information regarding uses for agricultural animals. Available from the Dr. Edward Bach Centre, www.bachcentre.com/centre/books.htm.

Flower Essences: Reordering Our Understanding and Approach To Illness and Health (1988), by Machaelle Small Wright. Perelandra, Ltd., Warrenton, VA. 262 p.

Well-written book on the theory and uses of flower remedies, including many that are non-traditional, non-Bach. There is a chapter on using them with animals. Available from the publisher.

Perelandra, Ltd.

P.O. Box 3603

Warrenton, VA 20188

800-960-8806.

www.perelandra-ltd.com/AB1473/index.cfm?&did=8.

Healing Animals Naturally With Flower Essences and Intuitive Listening (2001), by Sharon Callaghan. Sacred Spirit Publishing, Mt. Shasta, CA. 296 p.

Available from the publisher.

Sacred Spirit Publishing

P.O. Box 1056

Mt. Shasta, CA. 96067

530-926-6424.

Anaflora Flower Essences for Animals... and the People Who Love Them (1997), by Sharon Calahan. Sacred Spirit Publishing, Mt. Shasta, CA. 107 p.

Available from the publisher.

Sacred Spirit Publishing

P.O. Box 1056

Mt. Shasta, CA. 96067

530-926-6424.

Flower Essences. www.irishwolfhounds.org/flowers.htm.

Discusses some remedies created specifically for use with animals.

The Bach Flower Remedies & Your Plants (1986), by Rohilla Guy. Bio-planting, Inc., Berkeley, CA. 19 p.

An interesting guide to the use of flower essences in horticulture and agronomy. I was unable to find a current source for this booklet, which is apparently out-of-print.

*Fortunately, in late 2004, Guy summarized the booklet in a series of two articles published in the September–October and November–December issues of The Radionic Homestead Report, published by Little Farm Research (see **Resources: Dowsing and Radionics**).*

Acupuncture

Glossary

Acupuncture An ancient Chinese system of medicine in which a fine needle pierces the skin for a few millimeters and is then withdrawn. Of critical importance is knowing at what point to pierce the skin in relation to which disease.³¹

Ch'i The Chinese term for the "life energy" believed to flow through meridians.

Meridians Pathways or circuits within the body through which energy flows.

Pattern of disharmony An imbalance in an individual, usually associated with a physical or psychological disease.

Discussion

Acupuncture is an ancient technique for healing. It is deeply integrated into the larger concept of traditional Chinese medicine (TCM), the origins of which go back more than 4500 years. (See the following text box for more details on traditional Chinese medicine.) TCM uses a number of therapeutic techniques; acupuncture just happens to be the most widely known and adopted in the West.

Acupuncture is the use of fine needles carefully inserted into a patient at locations associated with the natural energy that flows within the body through what are called *meridians*. Depending on the circumstances, needles are placed at specific locations along the meridians called *acupoints*. Variations include electrical stimulation (*electro-acupuncture*), massage (*acupressure* or *shiatsu*), and heat (*moxibustion*).^{32,33} In human and animal medicine, acupuncture and its variants have been used to treat a wide variety of ailments. It has also been used as an anesthetic.

In the West, acupuncture is the most respected and accepted of all the energetic modalities discussed in this publication. It has earned its credibility in good part because of its efficacy and the immediacy of its effects. Conventional human and veterinary medicine have been compelled to take notice. An explanation for both efficacy and immediacy can be made using the same vibrational world view outlined in the homeopathy section. Like homeopaths, acupuncturists believe that physical disease originates from dysfunctions or blockages at higher energetic levels. In the case of acupuncture, the energetic level they focus on is the meridian system.

At the risk of complicating matters, it helps to understand where acupuncturists and the practitioners of other alternative modalities see meridians in the context of energetic systems. Most vibrational therapies assume that there are several levels to the subtle energetic system associated with a physical subject. These levels (usually seven) are distinguished by progressively higher frequencies of vibration. To visualize this, illustrations sometimes depict the higher vibratory states as reaching further out and away from the subject (see Figure 6). Sometimes they are depicted as progressive layers that look similar to the Russian matryoshka dolls, with progressively smaller figures

hidden inside larger ones. Again, such illustrations are oversimplifications and leave much unsaid.

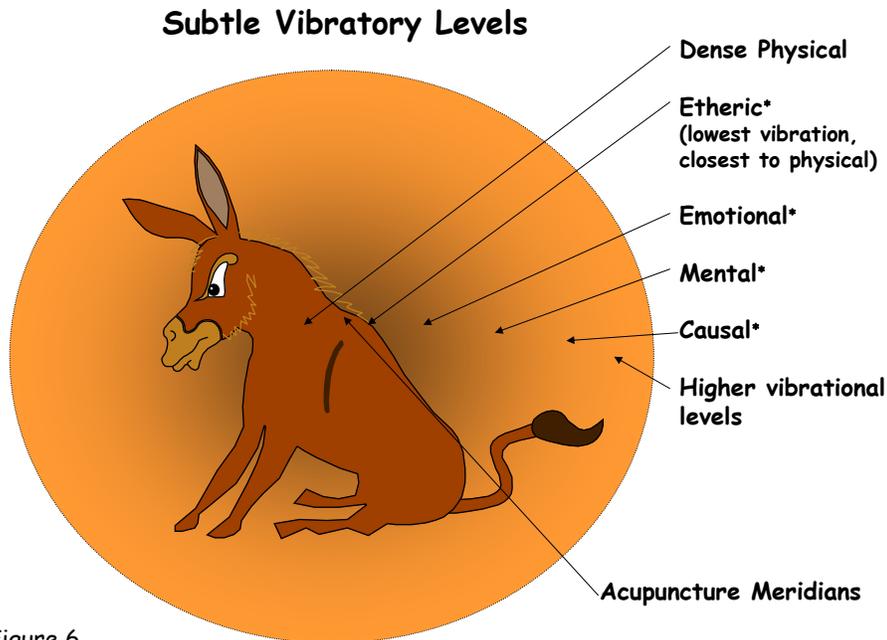


Figure 6

* Terms used are common with many esoteric systems, such as Theosophy.

In homeopathy, the higher potencies – those of higher dilution – are intended to reach dysfunctions in the higher vibratory levels. The flower essences are believed to work mostly on the emotional and mental levels.

Meridians are believed to be at a lower vibratory level. They are understood to exist at the interface of the physical form and the first vibratory level – indicated as *etheric* in Figure 6. Put another way, they are believed to be as close to the physical form as an energetic system can get. In this light, it is no wonder that the effects are so immediate and apparent. Research by Dr. Kim Bong Han in Korea supported this view when his team discovered that acupuncture meridians actually mapped the path of micro-tubular (0.5–1.5 microns) channels through the human body. The precise function of the microducts is unclear, but they transport an atypical mix of DNA, RNA, amino acids, free nucleotides, and hormones, and ultimately terminate in tissue cell nuclei. Han's discoveries were later confirmed by the French researcher Pierre de Vernejoul, using gamma-camera imaging.^{34, 35}

Despite the effectiveness of acupuncture, current use is limited in agricultural animals to musculoskeletal and reproductive problems.³⁶ Among the major reasons for lack of use in large animals is the limited number of trained practitioners, most of whom focus on pet animals and horses, where the financial rewards are greater.

Skill in acupuncture requires considerable study, and there is less margin for error than “safer” modalities like homeopathy and flower essence therapy. Do not experiment with acupuncture treatments on animals. The best bet is to find a professional to work with.

Some Background on Traditional Chinese Medicine (TCM)

Traditional Chinese medicine and Western medicine differ greatly in their philosophies, understanding of the body, diagnostic approaches, and treatments. Yet both are valid, effective medical systems. This was reflected in the 1950s during the Cultural Revolution in China. In an effort to modernize, the government ordered an evaluation of TCM, with the expectation that it would be discarded in favor of a totally Western approach. Thousands of experiments and test cases were conducted comparing Western and TCM diagnoses and treatments. In the end, the Central Committee observed that TCM held its own with Western medicine, and the two systems were given equal respect and place in modern China.³⁷

What China learned was that while the differences between Western medicine and TCM are vast and reflect different worlds, but both are capable of healing the same body. Western medicine struggles to zero in on the specific causal agents of disease, to identify and suppress or eliminate them. By contrast, the Chinese physician will study the complete physiological and psychological make-up of the patient, paying attention to such details as personality, personal habits, and skin complexion, as well as the obvious symptoms of disease. If faced with four patients with strep throat (according to Western medical diagnosis), a Chinese doctor might identify four very different conditions or *patterns of disharmony*, and prescribe four different treatments or therapies, as compared with the single medicine a Western doctor would prescribe.³⁸ Understanding the overall pattern, with the symptom as part of it, is the challenge of Chinese medicine. The Chinese system is not less logical than the Western, just less analytical.³⁹

Resources: Acupuncture

Print/Video

Compared to homeopathy, there is much less information available on veterinary acupuncture written for the layperson. There are several good texts for professionals, however. Most of the Web sites I found, however, deal with the treatment of pet animals and are not listed here.

Alternative and Herbal Livestock Health Sourcebook (2000), by Tom Morris and Michael Keilty. University of Connecticut, Storrs, CT. 164 p.

www.canr.uconn.edu/plsci/AHLH%20SB-Web.pdf

A guide for Extension educators. Much of the sourcebook focuses on the use of herbs. Not a useful reference for acupuncture, but there is an informative section on traditional Chinese medicine by Dr. K. Hwa Choi, DVM.

Introduction to Veterinary Acupuncture (no date), by Dr. David J. Gilchrist.

www.altvetmed.org/pages/articles.html

*Gilchrist also authored an article titled "Equine Acupuncture" in the August 2001 issue of Acres U.S.A. magazine, p. 36–37 (see **Resources: Introduction**).*

Complete Holistic Care and Healing for Horses: The Owner's Veterinary Guide to Alternative Methods and Remedies (2004), by Mary Brennan and Norma Eckroate.

Trafalgar Square Publishing, North Pomfret, VT. 356 p.

Available from amazon.com.

Veterinary Acupuncture: Ancient Art to Modern Medicine (2001), by Allen M. Schoen, D.V.M., M.S. (editor). C.V. Mosby, St. Louis, MO. 628 p.

Reference text for veterinarians and veterinary students. Includes chapters on research, laws of point selection, the longitudinal muscle-channel system, equine biomechanics, and veterinary manipulative therapies. Acupuncture atlases for many species are also included. Clinical significance boxes help readers to apply principles to practice.

Available from amazon.com and from

www.geocities.com/veterinarybooks/alternativemedicine.html#acupuncture.

Veterinary Acupuncture (2002), by Alan M. Kilde and Shiu H. Kung. University of Pennsylvania Press, University Park, PA. 316 p.

Available from amazon.com and from

www.geocities.com/veterinarybooks/alternativemedicine.html#acupuncture.

Complementary and Alternative Veterinary Medicine: Principles and Practice

(1998), by Allen M. Schoen, D.V.M., M.S. and Susan G. Wynn, D.V.M. C.V. Mosby, St. Louis, MO. 820 p.

Contains information on veterinary acupuncture. Available from amazon.com and from www.geocities.com/veterinarybooks/alternativemedicine.html#acupuncture.

Equine Acupressure: A Working Manual, 3rd edition (1999), by Nancy A. Zidonis and Amy Snow. Tallgrass Publishers, Larkspur, CO. 160 p.

Available from amazon.com and from

www.geocities.com/veterinarybooks/alternativemedicine.html#acupuncture.

Some informative popular articles include:

Acupuncture Beats Antibiotics (1988), by Dave Kendall. *The New Farm*. July–August. p. 14–18.

Don't Discount Acupuncture (1997), by Kurt Gutknecht. *Wisconsin Agriculturist*. March. p. 15.

Holistic Vets (1999), by Dan Anderson. *Farm Journal*. March. Special feature page.

Modern Animals Benefit from Acupuncture Treatments (1989), by Terry Kerns. *Small Farmer's Journal*. Summer. p. 68–69.

Veterinary Acupuncture, Dowsing & Homeopathy (1999), by Allan Balliett. *Acres U.S.A.* May. p. 36–37.

Animal Acupuncture (2004), by Pamela Hamer. Newsweek. December 20. p. 10.

Treating Dairy Cows Naturally: Thoughts and Strategies (2004), by Hubert J. Karreman V.M.D. Published by Paradise Publications, Paradise, PA. 268 p.
*Dr. Karreman has a long history of veterinary practice in Pennsylvania, including service to many organic producers. The book includes four pages of acupuncture charts. Available from the Acres U.S.A. Bookstore (see **Resources: Introduction**).*

Schools/Associations

The American Academy of Veterinary Acupuncture (AAVA)
100 Roscommon Dr., Ste 320
Middleton, CT 06457
860-635-6300
860-635-6400 FAX
office@aava.org

American Holistic Veterinary Medical Association (AHVMA)
2218 Old Emmorton Rd.
Bel Air, MD 21015
410-569-0795
office@ahvma.org

International Veterinary Acupuncture Society (IVAS)
P.O. Box 271395
Fort Collins, CO 80527-1395
970-266-0666
office@ivas.org

Reiki

Glossary

Ki Is essentially equivalent to the Chinese concept for life energy called *ch'i*. (see **Acupuncture**).

Reiki A noninvasive vibrational healing system that purports to channel healing energy through the practitioner's hands to the subject, either directly or from a distance.

Discussion

The word *Reiki*, pronounced "ray-key", comes from the Japanese words "rei," meaning spirit, and "ki," meaning energy. It is usually translated as "universal life energy." Initiated by a Japanese healer, Dr. Mikao Usui, Reiki is a noninvasive vibrational healing system that purports to channel healing energy through the practitioner's hands to the subject, either directly or from a distance.^{40,41} Like other vibrational modalities, Reiki is

built on the notion of removing an energetic blockage or malfunction to allow the subject's own *ki* to do the healing.

Reiki appears easy to learn and safe to use, though practitioners argue that it is not really a learning process. They insist that it is a kind of "attunement" received from a master teacher that allows one to channel energy for healing. In other words, you can learn a lot *about* Reiki, but the ability to practice it requires something more. So most (perhaps all) practitioners learn Reiki through someone else who has reached a higher level of mastery. Whatever the requirements for learning, all sources I read agree that Reiki works especially well with animals,^{42, 43} though repeated applications might be necessary to get the desired effect.⁴⁴

Similar to Reiki, but much less well-known, is *Johrei* – another approach to spiritual healing. According to the information on the Johrei Fellowship Web site, *Johrei (joh-ray) is Japanese, [and] means "to purify spirit." Johrei purifies the spirit of the recipient by intensifying or focusing divine light or universal energy through the prayer, love and intent of the person transmitting the Light.*⁴⁵

Resources: Reiki

I was able to find an abundance of popular books on Reiki for human health and growth, but very little about agricultural uses. It is likely that more information is embedded in general texts on holistic animal husbandry and alternative veterinary options.

Animal Healing and Vibrational Medicine (2001), by Sage Holloway. Blue Dolphin Publishing, Nevada City, CA. 222 p.
Available from amazon.com.

The Treatment for Horses: Energy-Work for Behavioral, Physical, and Health Related Problems (2002), by Alene Sibley. Lucky Spoon Prints, Buzzards Bay, MA. 54 p.
Available from amazon.com.

Spiritual Gardening At Its Best: A Quest for the Navoti Spirit (1993), by Don Elwood. 185 p.

Holistic Gardening: A Scientific Approach for Gardening With Love (1995), by Don Elwood. 161 p.

The Volks Garten: A Handbook for Gardening With Subtle Energies (1997), by Don Elwood. 156 p.

Don Elwood has applied Reiki and various other vibrational modalities to horticulture. These books, Reiki-treated seeds, and supplies are available from:

Hands Of Light Seeds

6482 Piney Woods Road

Riner, VA 24149

www.liteweb.org/hol/.

Dowsing and Radionics

Glossary

Divination Any means of *knowing through the hidden senses*.⁴⁶ In common usage, the term is sometimes used to mean dowsing or to describe it.

Dowsing Searching, with the aid of a hand-held instrument such as a forked stick or a pendular bob on the end of a string – for *anything*.⁴⁷ It is known by a number of common names including witching, divining, rhabdomancy, and radiesthesia.

Extrasensory perception (ESP) The result of an external sensing by which information and knowledge is contacted and, through subliminal processes, brought into consciousness.⁴⁸

Nonlocality A hypothetical condition in which location ceases to exist...separateness is an illusion...everything, in reality, is part of the same fundamental and cosmic unity.⁴⁹

Psychotronics An interdisciplinary science concerned with the interactions of consciousness energy fields and matter. Psycho: mind - consciousness; tronics: theory, physics, and instrumentation.⁵⁰

Radiesthesia Another term for dowsing. Translated literally, it means “sensitivity to radiations.”⁵¹ The term is most commonly used when dowsing is done for medical or veterinary purposes.

Radionics A methodology for the detection and manipulation of subtle energies linked to physical matter: animal, vegetable or mineral. It is generally known as a system of vibrational healing wherein curiously configured instruments are used to detect and treat disease conditions at a distance.⁵² Also: a method of energetic balancing at a distance by using intuitive/natural extrasensory abilities, a focused intent, and instrumentation.⁵³

Supersensonics A collective term for radionics, dowsing, and related modalities; originally coined by writer and teacher Christopher Hills.

Vibrations and Frequencies

To grasp the vibrational or energetic world view, it is necessary to understand that everything in nature vibrates at distinct frequencies. For example, an atom of hydrogen vibrates or spins at a frequency different from an atom of oxygen. When two hydrogen atoms are combined with one oxygen atom, the resulting water molecule acquires its own distinct frequency. None of this is at particular odds with conventional science. There are scientific means to measure, or at least estimate, these distinct frequencies. It is from this point forward, however, that modalities of radionics and dowsing begin to stray from the conventional scientific understanding of how things work in the world.

Essentially, practitioners of radionics and dowsing believe they can detect, measure, and discriminate among these vibrations using their extrasensory perception (ESP). ESP is a

controversial concept that is strongly embraced by some and thoroughly discounted by others. The controversies surrounding radionics and dowsing – especially radionics – polarize discussions on their use in organic farming, even among those who support the use of homeopathy, acupuncture, Biodynamics, and other vibrational approaches.

A Dowsing State of Mind

Whether ESP is a fact or not, dowsers and radionic practitioners *do* enter an altered state of consciousness to do their work. This has been well-demonstrated through use of the *mind mirror electroencephalograph* – a variation of the standard electroencephalograph. The mind mirror provides a visual presentation of human brain wave frequencies during different states of consciousness. The frequencies measured include the following.

- *Beta* (13–30 Hz). This is the normal range of frequencies exhibited when one is awake, with attention focused on the outside world.
- *Alpha* (8–13 Hz). The alpha state is also one of being “awake.” However, it is a restful mind state, when one is not responding to internal or external stimulation.
- *Theta* (4–8 Hz). Theta brain frequencies are associated with the half-awake dream states. When found in combination with other frequencies (i.e., beta, alpha, delta), it is also associated with access to unconscious information and to inspiration, as can occur in meditation.
- *Delta* (.5–4 Hz). Delta frequencies are usually associated with deep sleep when dreaming ceases. When found in combination with other brain frequencies (i.e., beta, alpha, theta), it has been associated with paranormal perception.

Representative mind mirror readings for dowsing and other states of consciousness are shown in Figure 8. An interesting pattern is shown for dowsers, who apparently generate brain waves of all four frequency ranges while doing work. The obvious conclusion to be drawn from these findings is that dowsers make simultaneous use of a much broader spectrum of brain potential than is used either in normal daily activities, sleep, or in meditation.⁵⁴

These are especially interesting findings. Dr. C. Maxwell Cade, the inventor of the mind mirror electroencephalograph, noted that alpha frequencies generally cease once a person’s eyes open. Dowsers, who commonly work with their eyes wide open, generate a very strong alpha pattern, plus the beta frequencies associated with a wakeful state. Delta frequencies, according to Dr. Cade, are associated with “reaching out to the unknown” – a function not usually associated with meditation states, but which is certainly the objective of dowsing.⁵⁵

Dowsing and the Dowsing Response

Dowsing is more familiar than radionics and is the better place to start. For most folks, dowsing is primarily associated with searching for well sites using a forked stick. Its history is obscure. Many practitioners claim it is an ancient art with pre-historic origins.

MIND MIRROR IMAGES

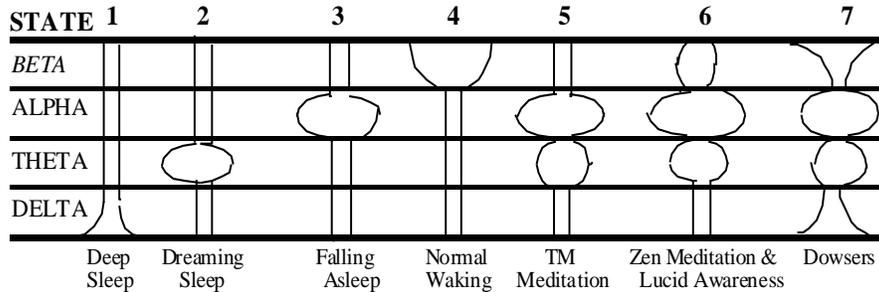


Table adapted from: Jurka, Edith M. 1991. Brain patterns characteristic of dowsers. The American Dowser Quarterly Digest. Fall. P. 8-14.

Figure 7

In many instances, they are referring to a whole host of practices, often lumped under the general term *divination*, which were (and are) used by some to guide their decision-making. If the use of simple hand-held tools – pendulums, willow twigs, wire rods – are used to distinguish dowsing from other forms of divination, its origins are probably with early mining operations in Europe and the quest to find high quality ore deposits. As such, dowsing appears to be at least 1000 years old.⁵⁶

The dowser attempts to locate objects (such as water or mineral veins), or get answers to posed questions, by observing the reaction of a hand-held tool – a pendulum rotates, a willow twig dips, a wire L-rod swings across the chest. These reactions are referred to as *dowsing responses* and have traditionally been seen as magical or *telekinetic* – moving an object without an obvious force being applied.

In recent times, the “dowsing response” has acquired a more physical explanation. These diverse responses are now understood to result from involuntary body movements and reactions and are similar to the *galvanic skin response* (GSR). GSR is the standard reaction measured by polygraph (lie detector) and by biofeedback instruments.

There is good reason to accept this assertion. Radionics, which uses electronic-like instruments, is also reliant on a dowsing response. On some instruments, a traditional dowsing pendulum is used; on others, a smooth plastic plate or rubber diaphragm is rubbed until a change in the surface tension is felt. Still others use galvanic skin response in the same manner as conventional polygraph and biofeedback machines. All these forms of dowsing responses are accepted as equal and valid among dowsers and radionic practitioners.

At this stage, however, it is wise to recall that polygraph tests are not admitted as trial evidence because of a certain areas of unreliability: 1) the instrument will confirm that someone is telling what they believe to be true, though what they believe might not be true in fact; 2) emotional stress can create false readings; 3) one can learn how to cheat and control the reading output of the instrument. It is reasonable to assume that dowsing and radionics, if valid, are vulnerable to these same weaknesses. Most practitioners will readily agree with this.

In agricultural settings, dowsing is used in many ways. The most common include the selection of fertilizers for crop production, diagnosis of diseases in livestock, and identifying earth-based and electromagnetic sources of stress on animals. Dowsing is often used to identify and trace stray voltage – apparently a growing problem in dairy operations.

Radionics

Radionics has more recent origins. The founder of radionics, Dr. Albert Abrams (1863-1924), was a well-respected American physician and educator who began his “unconventional” investigations around the turn of the last century. His work was extensive. Still, many of the nuances and features common to radionics today evolved from the work of others who built on the foundation laid down by Abrams.

The name usually associated with agricultural radionics in the United States is Galen Hieronymus (1895-1988). Hieronymus designed a basic instrument design and system that is in most common use here. Figure 7 depicts a Rogers Instrument, built in Missouri. Its design is based on the Hieronymus instrument.



When it comes to seeking information for crop and animal production, radionics is used in much the same way as dowsing. Because of the meticulous manner in which the instruments are used, radionics is especially effective in the more exacting tasks of formulating foliar fertilizer sprays and livestock feeds. There is another dimension to radionics, however. It is also employed as a therapeutic tool for direct treatment of livestock, crops, and soils.

Radionic Therapy

Radionic Therapy is the most controversial feature of radionics. It is typically done “at a distance,” with no apparent physical connection to the subject being treated. It has been described as “long-distance mind-body healing with the aid of instrumentation.” In many ways it seems similar to radio broadcasting, especially the electronic sending equipment. Even the treatments are often referred to as “broadcasts.” The analogy ends there, however. Radionic instruments are not wired in the same way as radios. In fact, the wiring patterns often make no sense at all to anyone with an understanding of electronics. It is little wonder that radionics has had such a stormy relationship with the American Medical Association (AMA) and the Food and Drug Administration (FDA) and is banned from practice in human medicine in the U.S. At the same time, it should be pointed out that radionics fares better in Britain and much of Europe, where practitioners can obtain formal training and the modality is accorded respect similar to that received by chiropractic in this country.

Does long-distance mind-body healing have any scientific basis? Like the practitioners of other energetic therapies, radionics proponents refer to quantum physics to answer this question. They believe that radionic therapy is an example of what physicists call *nonlocal* phenomena. Nonlocality refers to a hypothetical state in which “separateness” does not exist.⁵⁷ (Einstein called it *spooky action at a distance*.) It gives a deeper meaning to the phrase “everything is connected to everything else,” and it describes what reality is supposedly like at the subatomic level. But just because science can detect “spooky action at a distance” on the subatomic level, does not mean it readily occurs on the macroscale of our physical world.

Here is what practitioners actually claim about radionic therapy. They note that there are three characteristics that are essential to nonlocal actions,⁵⁸ and believe that radionic therapy demonstrates all three. For therapeutic healing to be nonlocal, its actions would be:

- *Unmediated* There is no physical connection between the source of healing and the subject.
- *Unmitigated* The effect of the healing treatment does not diminish with distance from the source of healing.
- *Immediate* The effect is instantaneous, despite the distance between the healing source and the subject.

Observations by practitioners provide anecdotal evidence that radionic therapy is effective and works according to quantum theory. However, as with most energetic therapies, the claims have not received rigorous scientific evaluation and probably won't for a long time.

UKACO

Among the best known research and field applications of agricultural radionics was that done by the American firm UKACO, in the late 1940s and early 1950s. During this period, UKACO is reported to have used radionics to successfully control insect pest outbreaks in Arizona and Pennsylvania crop fields.⁵⁹ There is good documentation and many official letters attesting to the success of UKACO trials. These and other details can be found in several books listed in **Resources: Dowsing and Radionics**. With this level of success, it is surprising that commercialization did not proceed further.

Accessing Dowsing and Radionics

It is possible to find dowsers and radionics practitioners to provide diagnostic and treatment services. Dowsers are much easier to locate. There are chapters of the American Society of Dowsers (ASD) in many states. Radionics practitioners are harder to find. Pressure from the AMA, FDA, and other regulatory agencies has made the most legitimate practitioners cautious. Both dowsing and radionics are used by a number of American veterinarians, though how many is unknown.

Radionics and dowsing are in fairly common use among the practitioners of other unconventional modalities, including Biodynamics and all the methods outlined in this publication. There is a special relationship, it seems, with homeopathy. Some radionic instruments are especially designed to make homeopathic potencies.

Both radionics and dowsing can be learned and practiced by lay people. Though I've personally encountered a number of Ph.D level agronomists, large animal veterinarians, and other agricultural specialists who use dowsing, radionics, or both, most agricultural practitioners are farmers of varying skill levels and philosophies; not all are organic, though most espouse values common to organic farmers, such as a desire to eliminate pesticide use.

Dowsers claim that the large majority of individuals have reliable dowsing responses and could be trained in either dowsing or radionics. My personal experience supports this. I've trained several dozen individuals over the past two decades and have yet to find a student who could not achieve some level of skill. This raises another point, however. The degree of skill attainable is clearly dependent both on practice and on individual talent. Just as most everyone can write an understandable statement, only a few can produce literary art.

Dowsing is relatively easy to learn, and instruction easy to find. One of the best sources is the American Society of Dowsers. Basic instruction is usually provided at ASD Chapter meetings, and at their conferences and workshops. It is also possible to learn from instructional guides. Walt Woods' *A Letter to Robin* is perhaps the best and least expensive self-teaching guide available (contact the American Society of Dowsers; see

Resources: Dowsing and Radionics).

Radionics is much more challenging to learn. A few practitioners are self-taught, but some level of formal instruction is advised. Instructors can be a bit hard to find. Start by contacting the USPA (see **Resources: Dowsing and Radionics**).

Dowsing and radionics integrate well with other unconventional practices. For example, both methods are used to select the appropriate herbal, homeopathic, or flower essence medicines to treat specific diseases. Most radionic instruments are designed to make facsimilies or copies of homeopathic remedies. Radionic broadcasts, too, are best done in conjunction with moon signs.

Resources: Dowsing and Radionics

For those seeking training in radionics, it is important to understand that there are many different instrument designs and systems of analysis that go with them. Too many novices purchase low-cost or used instruments with obscure origins, only to find they cannot locate teachers or practitioners who know how to use them.

Alternative Treatments for Ruminant Animals (2004), by Paul Dettloff D.V.M. Acres U.S.A., Austin, TX. 260 p.

*Dr. Detloff is a well-known veterinarian in Wisconsin and a resource to the regional organic farming community. Chapter 10 deals with immunity and contains a brief discussion of dowsing and stray energies. Available from the Acres U.S.A. Bookstore (see **Resources: Introduction**).*

American Society of Dowsers (ASD)

P.O. Box 24

Danville, VT 05828

802-684-3417

802-684-2565 FAX

www.dowsers.org/index.htm

ASD has a quarterly journal The American Dowser and a mail order bookstore. Some of the available books and supplies are shown on their Web site. The hardcopy bookstore catalog features many more.

Radionics in Agriculture is a videotaped class given by Arden Andersen, Ph.D., D.O.

*A long-time contributor to Acres U.S.A. magazine, Andersen videotaped his four-day workshop and makes it available through the Acres U.S.A. Bookstore. Also available are a sampler videotape and an audiotape on radionics. He also provides some explanatory information in his books The Anatomy of Life & Energy in Agriculture (1989) and Science In Agriculture: The Professional's Edge (1992). Both books are published by Acres U.S.A. and available through the Acres U.S.A. Bookstore (see **Resources: Introduction**).*

Bruce Copen Laboratories
P .O. Box 734
Mt. Vernon, IL. 62864
618-242-4215

Copen Labs is based in Great Britain, but it maintains a U.S. information office in Illinois. Founded by the late Bruce Copen, the lab has a long history of work and a good reputation in the radionics field. Many practitioners in the U.S. use Copen instruments, though the instruments and rates are not directly compatible with the more widely-used Hieronymus system. Agricultural radionics books available from Copen Labs include Agricultural Radionics, Electronic Homeopathy for Plants (1980), and Radiesthesia for Home & Garden (1974) – all originally authored by the late Bruce Copen. There is also an Agriculture Rate Book available. Copen Labs also sells Report on Radionics, which is reviewed later in this resource list. Order books, instruments, and supplies from the Web site at www.brucecopenlaboratories.com/.

Crop Services International
Contact: Phil A. Wheeler, PhD.
1718 Madison S.E.
Grand Rapids, MI 49507
616-246-7933
616-246-6039 FAX
www.cropservicesintl.com/

*Radionic soil/plant analysis services. General information is available on the Web site. There is also limited but helpful information in Wheeler's 1998 book, The Non-Toxic Farming Handbook, co-authored with Ronald B. Ward, which is available from Acres U.S.A. Bookstore (see **Resources: Introduction**). Also see "Human Intentionality in Agriculture: Bringing Quantum Physics to the Farm" – an article by Phil Wheeler in the March 2005 issue of Acres U.S.A. magazine, p. 16–18.*

Crystal Healing for Animals (2002), by Martin J. Scott and Gael Mariani. Findhorn Press, Findhorn, Scotland. 142 p.

*Part II features instructions on using the pendulum for selecting crystal remedies. Available from Anthroposophic Press (see **Resources: Introduction**).*

Foundation for Science and Spirituality
Contact: Susan Young
11699 Rittenhouse Rd.
Marysville, OH 43040
937-644-0985
susan@fssuniverse.org

This organization promotes agricultural research in radionics. Its first call for proposals was issued October 1, 2004. Alternate address: FSS, 4200 County Rd. 551, Pagosa Springs, CO 81147, Tel: 970-264-2592.

Radionics, Reality & Man (1996), by George Kuepper. Published by the author, Goshen, AR. 262 p.

Plants, Soils, Earth Energy & Radionics (1998), by George Kuepper. Published by the author, Goshen, AR. 212 p.

I wrote these two radionics manuals specifically for use with Hieronymus-style instruments. A 1995 ATTRA publication, Radionics in Agriculture, that I co-authored with Steve Diver, is also available at the Web site. Further articles include "Psychotronics: a new frontier in sustainable agriculture", in the May-June 1991 issue of Natural Food & Farming, p. 13,14,33, and "Subtle energies", in the November 1991 issue of Acres U.S.A., p. 20-21. Supplier of radionic instrumentation. For details and availability of books or instruments, write:

George Kuepper

P.O. Box 151

Goshen, AR 72735

<http://home.earthlink.net/~gkuepper/index/George.html>.

How To Dowse (1953), by Marguerite Maury. 184 p.

A classic self-instruction book. Chapter 17 is specifically on agricultural applications. Available from the American Society of Dowsers bookstore (see above).

The Incredible Hieronymus Machine (1976), In: *Magic: Science of the Future*, by Joseph F. Goodavage. Signet Books/Times Mirror. 197 p.

I was reluctant to list this out-of-print item as it borders on sensationalism – the "gee whiz" genre of popular science writing. However, the chapter does provide some excellent descriptions of how radionics/psionics has been used for pest management, and it includes a generous amount of theory and history that is not covered in most other writings on the subject. The chapter is also of historical interest. It appears that a version of it was originally published in the widely-read Saga Magazine in the early 1970s. It is frequently referenced, and the public image of radionics was shaped significantly by it. See Kelly Research Technologies below.

Kelly Research Technologies

P.O. Box 128

121 Oasis Rd.

Lakemont, GA 30552

706-782-2524

706-782-6127 FAX

www.kellyresearchtech.com

Formerly "Interdimensional Sciences." A source for radionic instrumentation. Publishes the "Agriculture Book," which contains agricultural rates, formulas and other useful information. Their book, "Psychotronics Book I," features many informative articles including the reprint of a 1986 piece by Lutie Larsen on radionics and gardening, originally published in Mother Earth News. Also featured is a reprint of Joseph F. Goodavage's "The Incredible Hieronymus Machine. A newsletter is available, as well as a compilation of all the newsletters published from 1983 through 1986, with several agriculture and gardening articles.

Little Farm Research (LFR)
Contact: Lutie or Katherine Larsen
993 West, 1800 North
Pleasant Grove, UT 84062
801-785-7416
www.littlefarmresearch.com

Owned and operated by long-time radionics practitioner and teacher Lutie Larsen, LFR is one of the best sources for instruments, supplies, information, and training. There is a newsletter – The Radionic Homestead Report – plus a number of agricultural books including a Gardening Ratebook (1988), The Animal Sourcebook (1994), and The Radionic Homestead Journal (1988). Also available is a 10-hour Integrated Agricultural Workshop Course and a USPA Sustainable Agriculture Lecture on video.

The Radionic Association of the UK
Baerlein House, Goose Green
Deddington
Banbury, Oxon, OX15 0SZ
(01869) 338852
secretary@radionic.co.uk
www.radionic.co.uk/

The Radionic Association offers foundation and two-to-three-year professional courses in radionics. A course in crops and soils is available.

Radionics: Science or Magic (1982), by David V. Tansley, D.C. C.W. Daniel Co., Essex, U.K. 142 p.

The late David Tansley wrote quite a few books on radionics as a human medical modality. To my knowledge, none of them addressed agriculture. I have included this out-of-print book in the resource list because it provides another perspective for understanding radionics and how it is believed to work. It was the first book I read on the subject before becoming involved back in 1986.

Report on Radionics: Science of the Future (1973), by Edward Wriothesley Russell. Neville Spearman, Suffolk, U.K. 255 p.

*An easy-to-read book about the history, philosophy, and techniques of radionics. There is a complete chapter on agriculture and an appendix showing the results of several field trials. Additional information on the analysis and treatment of plants and animals is scattered throughout. Available from Acres U.S.A. Bookstore (see **Resources: Introduction**) and from Copen Laboratories (see above).*

Rex Research
P.O. Box 19250
Jean, NV 89019
www.rexresearch.com/

Rex Research bundles articles, obscure papers, and other documents related to arcane and alternative technologies. Infolio A2-AGR addresses agriculture and contains information on radionics and plants.

Scanning Unlimited, LLC.
Contact: Rob or Paul Fridenstine)
53166 St. Rt. 681
Reedsville, OH 45772-9753
740-378-9820
740-378-6605 FAX
www.scanningunlimited.com/

Science and Human Transformation: Subtle Energies, Intentionality and Consciousness (1997), by William A. Tiller, PhD. Pavior Publishing, Walnut Creek, CA. 316 p.

*I am making another exception to my rule to include only agricultural resources in these lists. Tiller's book is an exceptional collection of scientific information explaining the theory behind radionics and dowsing. Available from Acres U.S.A. (see **Resources: Introduction**.)*

The Secret Life of Plants (1973), by Peter Tompkins and Christopher Bird. Harper and Row, New York, NY. 416 p.

*More than a bit sensationalist, but a classic. Considerable information on early radionic experimentation with plants. Available from Acres U.S.A. Bookstore (see **Resources: Introduction**).*

Stone Age Farming – Eco-Agriculture for the 21st Century (2001), by Alanna Moore. Python Press, Castlemaine, Victoria, Australia. 213 p.

*Good details and descriptions of both radionics and dowsing applied to farming and gardening. See review and how to order in **Resources: Radionic Towers**.*

United States Psychotronics Association (USPA)
P.O. Box 45
Elkhorn, WI 53121,
262-742-4790
262-742-3670 FAX
uspa@elknet.net
www.psychotronics.org/

Source of general information on radionics and related matters. Annual conference with tapes from past conferences available, many of them on agricultural topics. USPA offers an introductory course in radionics. Source of contact names for reliable instructors and instrumentation.

Vibrations: A Practical Study of the Forces That Effect Our Health (1992), by Owen Lehto. Nutritional Research Center, Keller, WA. 150 p.

*Focuses on human health and relates back to agriculture, using dowsing and dowsing theory. Available from Acres U.S.A. Bookstore (see **Resources: Introduction**).*

Radionic Towers and Earth Acupuncture

Glossary

Ley line One of the terms commonly used to describe an earth energy meridian.

Lithopuncture The use of large standing stones or rock structures on an earth meridian or juncture of earth energy lines to harmonize energy flow.

Paramagnetism The atoms or molecules of a substance that have a net orbital or spin magnetic moment and are capable of being aligned in the direction of the applied field.⁶⁰ Paramagnetic substances—like paramagnetic rock particles or paramagnetic soil—can be drawn to a magnet but do not become magnetic in the way iron filings do. (Because iron filings can also be magnetized, they are called “ferromagnetic.”)

Discussion

This section is a continuation of the previous one on radionics and dowsing. Here we are dealing with specific applications that involve placing structures or objects—such as small towers—in farm fields or landscapes to correct some vibrational imbalance in the area, enhance the performance of crops or livestock, or both. I’m aware of three basic approaches: Earth Acupuncture, Paramagnetic Towers, and Hieronymus Pipes.

Earth Acupuncture

Most dowsers believe that the earth is criss-crossed with energy lines of various kinds. They often equate these with the acupuncture meridians associated with humans and animals. Dowsers also believe in the existence of surface and subterranean lines of stress or noxious zones that come from geologic features, underground water flows, electrical transmission lines, and other factors. They have identified a number of techniques intended to neutralize noxious problems and enhance healthy energy flow. These include the placement of large stones, obelisks, posts, and other objects at specific locations, in much the same way that an acupuncturist places needles at points along a meridian on a patient.

Dowsers believe that this practice of “earth acupuncture” is ancient and suggest it as an alternative explanation for the large stones found at Stonehenge, Avebury, and elsewhere in the British Isles. Similar theories are used to explain the purpose behind certain Native American rock circles, sometimes referred to as magnetic or medicine wheels.⁶¹

While some dowsers continue to use standing stones and stone rings as a form of earth acupuncture or *lithopuncture*, other constructions are also in use. The late Jerry Fridenstine, a radionics teacher and researcher active in the 1970s and 1980s, developed a field treatment unit called *Triune Bio-tronic Tower Balancers* or *Towers of Power*. The towers were made of metal tubing and had three long legs. Fertilizer *potencies* were placed in them to enhance the growth of crops in surrounding fields. I have seen only one of these installations at the Natural Food Associates farm (now closed) near Atlanta, Texas. The unit stood about 7 to 10 feet tall.

Paramagnetic Towers

Former USDA entomologist Philip Callahan has written extensively on the subject of paramagnetism in soils. A substance is considered paramagnetic if it has a weak but measurable susceptibility to a magnetic field. According to Callahan's research, fertile soil is typically paramagnetic. Some farmers try to enhance the paramagnetic properties of their soils through the addition of paramagnetic rock dusts. Paramagnetic rock dusts, their theory and practice, are beyond the scope of this publication. Please contact Steve Diver, NCAT Program Specialist, for information on this topic.

Callahan extended his research into paramagnetism by studying the ancient round towers of Ireland. He theorizes that these were constructed to enhance the paramagnetic character of soils on neighboring farms. Based on this theory, some farmers construct much smaller round towers in their fields for the purpose of building soil fertility.

Paramagnetism, itself, is a conventional scientific concept with known measurable units. It is not controversial. Neither is Callahan's finding that fertile soils are more paramagnetic than poor soils. However, improving soils by adding paramagnetic rock dust remains somewhat controversial, though there is a small body of research supporting it (contact Steve Diver at ATTRA). Clearly controversial is whether round towers of any size can increase the paramagnetic character of a field, and thus the fertility of the soil.

Hieronymus Pipes

One of the innovations of Galen Hieronymus was a particular type of radionic tower, specifically intended for agronomic and horticultural work. These were called "Cosmic Pipes" or "Cosmic Pipelines," so-named because the "guts" of the unit were housed in lengths of pvc pipe, to withstand the elements and partial burial in the soil. When installed, they look like tall, white fenceposts (see Figure 9). More recently, the term "Field Broadcasters" has been used to describe these towers.

A few entrepreneurs have developed modifications of Hieronymus's original unit. All those that I've seen feature either a copper plate or an antenna, plus a well in which fertilizer potencies or similar substances are placed with the intent that these be broadcast to surrounding crops and soils. Hugh Lovel, from the Union Agricultural Institute in Georgia, has made significant modifications to the original Hieronymus design. Information on Lovel can be found under **Resources: Radionic Towers**.

A Bit About Feng Shui

Feng Shui (pronounced "fung shway") is the ancient Chinese art of placement. It is used for choosing building sites, designing interiors and landscapes, and selecting locations for other human activities.⁶² Feng Shui has a lot in common with what is called "earth acupuncture" in this section. In both Chinese Feng Sui and earth acupuncture (which is really Western in origin, despite the name), practitioners recognize the existence of earth



Hieronimus-style Tower

energy lines. They also share the overall goal of changing and harmonizing the environment.⁶³ In contrast, however, Feng Shui is more holistic. It routinely incorporates astrological and other considerations that are sometimes ignored in Western earth acupuncture.

I am not aware of anyone applying Feng Shui to commercial agriculture—organic or conventional. There is considerable interest in its use for landscaping and home gardening. Those are the resources you will find listed at the end of this section.

Resources: Radionic Towers

Ten years with a Cosmic Pipe (1996), by Hugh Lovel. Acres U.S.A. October. p. 12-15.

A Cosmic Pipe update... farming the atmosphere (1997), by Hugh Lovel. Acres U.S.A. June. p. 20-23.

Field broadcasting of biodynamic preparations (2000), by Hugh Lovel. *Biodynamics*. May-June. p. 23-25.

Response to Manfred Klett (2000), by Hugh Lovel. *Biodynamics*. November-December. p. 3-4.

Stimulating soil & air: new research with field broadcasting (2002), by Hugh Lovel. Acres U.S.A. August. p. 20-25.

Quantum Agriculture Field Broadcasters (no date), by Hugh Lovel. Union Agricultural Institute, Blairsville, GA. 12 p.

Introduction To Quantum Agriculture (2005), by Hugh Lovel. Union Agricultural Institute, Blairsville, GA. 40 p.

Physics & force in agriculture (2005), by Hugh Lovel. Acres U.S.A. August. p. 24-25.

*The above-listed articles by Hugh Lovel outline his many years of experience with field broadcasters and detail many of his personal innovations. To obtain "Quantum Agriculture Field Broadcasters" and "Introduction To Quantum Agriculture," see entry on the Union Agricultural Institute later in this section. Also see **Resources: Introduction** to locate sources for the rest of the above-mentioned articles.*

Ancient Mysteries, Modern Visions (1984), by Phil Callahan. Acres U.S.A., Austin, TX. 142 p.

Nature's Silent Music (1992), by Phil Callahan. Acres U.S.A., Austin TX. 224 p.

Paramagnetism (1995), by Phil Callahan. Acres U.S.A., Austin, TX. 128 p.

*A now-retired USDA entomologist, with considerable background in electronics and eclectic interests, Phil Callahan is a prolific writer on a range of matters – agricultural and otherwise. He has several books that outline his theories on paramagnetism, round towers, and crop production. The most relevant of these are listed above and are available through the Acres U.S.A. Bookstore (see **Resources: Introduction**). Callahan is also a frequent contributor to Acres U.S.A. magazine. Many of his articles address paramagnetism. Among those specifically dealing with round towers are "Agriculture and the round tower astronomers" in the October 1980 issue of Acres U.S.A., p. 12–15; "Magic antenna and ancient agriculture" in the April 1981 issue of Acres U.S.A., p. 8–9; "Soil antenna and living auras" in the August 1981 issue of Acres U.S.A., p. 1, 6–9; "A view of Phil Callahan's Ireland" in the April 1987 issue of Acres U.S.A., p. 16–18; "The paramagnetic ELF forces: how to farm properly as God intended" in the May 1995 issue of Acres U.S.A., p. 12–13.*

Rex Research

P.O. Box 19250

Jean, NV 89019

www.rexresearch.com/

Rex Research bundles articles, obscure papers, and other documents related to arcane and alternative technologies. Infolio A2-AGR addresses agriculture and contains information on Hieronymus pipes and cosmiculture.

Stone Age Farming – Eco-Agriculture for the 21st Century (2001), by Alanna Moore. Python Press, Castlemaine, Victoria, Australia. 213 p.

Divining Earth Spirit (1994), by Alanna Moore. Published by the author. 41 p.

*Australian dowser Alanna Moore's Stone Age Farming is probably the most complete guide in print to deal with all three of the approaches discussed in this section. It is available in the United States through Acres U.S.A. Bookstore (see **Resources: Introduction**). Moore has authored several earlier books, including Divining Earth Spirit, that are largely supplanted by Stone Age Farming. If still in print or if any new copies remain, they can be found through the American Society of Dowsers bookstore (see **Resources: Dowsing and Radionics**). Moore's Web site for additional information is <http://geomantica.com/>. Some of Moore's articles in print include "Ancient technologies for a fruitful harvest" in the September–November 1998 issue of Permaculture International Journal, p. 26–27; "Radionics & orchardry: innovative agriculture in New Zealand" in the April 2003 issue of Acres U.S.A., p. 12–14; "Return to health: NZ dairy farm discovers radionics" in the July 2003 issue of Acres U.S.A., p. 15–17; "Cleaning the soil" in the August 2004 issue of Acres U.S.A., p. 15–16.*

Crop Services International
Contact: Phil A. Wheeler, PhD.
1718 Madison S.E.
Grand Rapids, MI 49507
616-246-7933
616-246-6039 FAX
www.cropservicesintl.com/

Information and installation services for Hieronymus-style towers.

The Enlivened Rock Powders (1994), by Harvey Lisle. Acres U.S.A., Austin, TX. 194 p.
*While this book focuses on the theory and use of rock powders for soil fertility, which I'm not addressing in this publication, it has a lot of useful information on dowsing and earth acupuncture for farming. Available from the Acres U.S.A. Bookstore (see **Resources: Introduction**). Also worth reading is Lisle's article "Seeds to sprouts" in the September 2005 issues of Acres U.S.A.*

The Medicine Wheel Garden: Creating Sacred Space for Healing, Celebration, and Tranquility (2002), by E. Barrie Kavasch. Bantam Books, New York, NY. 349 p.
Distinctions are often made among the different kinds of Native American stone circles. Many "medicine wheels" are described without any reference to notions of earth acupuncture. This particular book focuses on integrating herb gardening with a stone circle.

Needles Of Stone (1978), by Tom Graves. Turnstone Books, London, U.K. 213 p.
*This out-of-print book is one of the most helpful I have found for understanding the theory and practice of earth acupuncture. Hopefully, it's not too hard to find a good used copy. Try the used book Web sites listed in **Resources: Introduction**.*

New Age Technics
Contact: Robert L. and Marietta P. Pickett
26715 Devaney Rd.
Atlanta, IN 46031
317-773-0061
317-984-5547 FAX

Source for the "Planetary Harmonizing Aerial."

Plants, Soils, Earth Energy & Radionics (1998), by George Kuepper. Published by the author. Goshen, AR. 212 p.
*Three chapters address earth acupuncture and radionic towers. See review in **Resources: Dowsing and Radionics**.*

Pyramid Energy: The Philosophy of God, The Science of Man (1987), by Dean Hardy, Mary Hardy, Marjorie Killick, and Kenneth Killick. Cadake Industries & Copple House, Clayton, GA. 366 p.

I was hesitant to include this resource. It is rather esoteric, challenging to read, and out-of-print. However, it contains information on magnetic wheels and other aspects of earth

acupuncture that, to my knowledge, are not in print elsewhere. Available from Transitions Bookplace, www.transitionsbookplace.com/.

Secrets of the Soil: New Age Solutions for Restoring Our Planet (1989), by Peter Tompkins and Christopher Bird. Harper and Row, New York, NY. 444 p.
*Specifically, Chapter 21 deals with paramagnetic towers; Chapter 22 discusses Hieronymus towers. Generally, the book samples energetic agriculture broadly. A number of unconventional practices, modalities, and philosophies are addressed. There is a lot of information here, but it tends toward the sensationalist. Available from the Acres U.S.A. Bookstore (see **Resources: Introduction**).*

Stone Circles: A Modern Builder's Guide to the Megalithic Revival (1999), by Rob Roy. Chelsea Green Publishing, White River Junction, VT. 369 p.
The interest in standing stones and stone circles is especially strong in Great Britain, where the heritage is the strongest. This book is not about agricultural applications specifically. However, it is the only source I'm aware of that deals with all the fine points of design and construction, including how to set very large stones. This book is still in-print but not too easy to find. Contact the publisher at the address below, or try amazon.com.
Chelsea Green Publishing
P.O. Box 428
White River Junction, VT 05001
802-295-6300

Towers of power: enhancing soil & crop health with paramagnetic towers, (1999), by Junitta Vallak. In the August issue of Acres U.S.A. magazine, p. 20.

Union Agricultural Institute
Contact: Lorraine Cahill or Hugh Lovel)
8475 Dockery Rd.
Blairsville, GA 30512
706-745-6056
uai@alltel.net
www.UnionAg.net.

Founded by Hugh Lovel. Research, education, and consultation in Biodynamics and radionics.

Resources: Feng Shui Gardening

Feng Shui for Outdoor Spaces: How to instill harmony into your patio and deck (2004), by Angi Ma Wong.
www.homestore.com/HomeGarden/Decorate/FengShui/Garden.asp?poe=homestore

Feng Shui Gardening Resources (1998), by Don Julien. www.bmi.net/roseguy/dfsbooks.html
Lists and critiques 5 books on Feng Shui gardening, published in the late '90s.

Feng Shui Your Garden For Dummies (2004), by Jennifer Lawler and Holly Ziegler. Wiley Publishers, Hoboken, NJ. 288 p.

Available from amazon.com.

Gardening With Soul: Healing the Earth and Ourselves With Feng Shui and Environmental Awareness (2003), by Gaylah Balter. Learning Tree Books, Bloomington, IN. 146 p.

Available from amazon.com.

Moon Signs and Natural Cycles

Glossary

Astrology The study of the movements of the Sun, Moon, and planets and their connection to everyone and everything on Earth.⁶⁴

Elements Fire, earth, air, and water. Fire signs are Aries, Leo, and Sagittarius; earth signs are Taurus, Virgo, and Capricorn; air signs are Gemini, Libra, and Aquarius; water signs are Cancer, Scorpio, and Pisces.⁶⁵

Horoscope A scheme or figure of the heavens at a given time or place.⁶⁶

Signs of the Zodiac Aries, Taurus, Gemini, Cancer, Leo, Virgo, Libra, Scorpio, Sagittarius, Capricorn, Aquarius, and Pisces.⁶⁷

Zodiac Name for the elliptic pattern the earth follows in its annual revolution around the Sun. This path is always the same and always passes through the same 12 signs.⁶⁸

Discussion

Astrology provides the basis for moon sign gardening and farming. Astrological scheduling involves a complex set of relationships that takes the moon phase, the location of the earth along the path of the zodiac (the sign), and the position of planets into account. The elemental qualities of the zodiac signs are especially important in moon sign scheduling. The *elements* refer to *earth, air, fire, and water*. Each element is believed to have qualities that favor the growing of certain plant parts, the likelihood of rain, and other factors.

While these influences are largely dismissed by conventional science, belief in them has deep historical roots, going as far back as the Sumerians, roughly 3000 years B.C.E.⁶⁹ Astrological influences are consistent with the vibrational world view that underlies the other unconventional practices covered in this publication. Planetary influences are believed to be subtle in their effects, as are most unconventional practices.

Most folks are familiar with the notion of moon sign planting – scheduling to promote the growth of certain plant parts, such as tubers, leaves, or seeds. The literature indicates that even more farming and gardening activities might be so guided. There are recommended times for weed control, mowing, pruning, composting, harvesting, livestock breeding, de-horning, castration, and other agricultural activities.

While some practitioners of moon-sign scheduling might be fanatical about the practice, most I have encountered are much more practical. They view recommended planting dates, for example, as the best times to plant a crop, not the only time to plant. If the optimal date cannot be used, they might allow for additional fertilizer, irrigation, or other cultural activities to grow a crop that doesn't have that "extra edge." Moon sign scheduling also works very well with other unconventional practices, particularly (in my experience) with radionic broadcasting (see **Dowsing and Radionics**).

As stated earlier, the origins of astrology and its applications to agriculture are lost in antiquity, though we know that the concept of the zodiac precedes the Christian era by thousands of years.⁷⁰ That long history has not added to the credibility of moon-sign scheduling. Skeptics dismiss it as a discredited "science." The proliferation of horoscopes in newspapers, which are intended to entertain, make it vulnerable to further ridicule. Despite this, astrological guidance is widely used, especially by non-commercial gardeners.

Information on astrology and moon-sign scheduling is abundant. The easiest strategy for farmers and gardeners is to find a good almanac and follow its advice.

Resources: Moon Sign Scheduling

Resources are widely available on this topic. The list features some of the most well-known and available books, calendars, almanacs and publications.

Astrological Gardening (1989), by Louise Riotte. Storey Communications, Pownal, VT. 224 p.

Riotte is a prolific writer with a number of gardening books to her credit. This text presents background information on astrological gardening plus abundant tips on the growing of individual crops. It appears to be an update and/or sequel to a 1976 book by the author titled Planetary Planting. It is definitely a how-to book with an easy-to-read writing style. Both Astrological Gardening and Planetary Planting are available on amazon.com.

Betwixt Heaven & Earth (1999), by Brian Keats. Published by the author, Bowral, Australia. 165 p. www.acenet.com.au/~astrocal

*A well-written book that discusses astrology within the context of Biodynamic farming and gardening. A companion to Keat's Northern Star Calendar. Requires some basic understanding of astrological concepts. Not a beginner's book. Available from the Biodynamic Farming and Gardening Association (see **Resources: Introduction**). Also see the research section of Keat's Web site at www.acenet.com.au/~astrocal/research.html for some fine articles on the influence of the moon and planets on living organisms.*

Biodynamic Gardening for Health & Taste (2003), by Hilary Wright. Mitchell Beazley, London, UK. 144 p.

*Available from Acres U.S.A. Bookstore (see **Resources: Introduction**).*

Biodynamics

*The Journal of the Bio-Dynamic Farming and Gardening Association, 25844 Butler Rd., Junction City, OR 97448, www.biodynamics.com In recent years Biodynamics has featured a regular column titled "Recommendations for Working with Crops, Sequential Spraying, and Ashing (For U.S.A.)," by Hugh Courtney. This feature provides highly specific recommendations for scheduling various mundane and Biodynamic horticultural activities, including the ashing of weeds and insects for pest management. A good description of ashing procedures is provided in Thun's *Gardening for Life: The Biodynamic Way* (see below).*

Biodynamic Sowing and Planting Calendar (200_): Working with the Stars by Maria and Mathias Thun. Floris Books, Edinburgh, UK. Approximately 64 p. Updated annually.

*One of the most commonly used Biodynamic calendars. Thun's research is based more on planetary influences than is commonly done. As a result, many BD practitioners view Thun's calendar as a more advanced approach.⁷¹ Available from the Biodynamic Farming & Gardening Association (see **Resources: Introduction**).*

Considera Developing Agriculture

A Web site that discusses and encourages research on the esoteric practices of Biodynamics. One section is given over to working with the planets.
www.considera.org/

Culture and Horticulture (1979), by Wolf D. Storl. Biodynamic Literature, Wyoming, RI. 435 p.

*This is a classic of Biodynamic literature. Highly philosophical. Addresses the esoteric reasoning and practices of BD, including astrological gardening. Available from the Biodynamic Farming and Gardening Association, (see **Resources: Introduction**).*

Ed Hume's (200_) Garden Almanac, by Ed Hume. Hume Seeds, Puyallup, WA. Approximately 35 p. Updated annually.

A good, low cost almanac, popular in the Pacific Northwest. Easy to follow. Available from:

Hume Seeds
P.O. Box 73160
Puyallup, WA 98373
www.humeseeds.com/

Gardening & Planting by the Moon. www.astro3.demon.co.uk/index.htm

*This British Web site is highly informative and useful. It is also used to promote an astrological gardening book of the same name (*Gardening & Planting by the Moon*), by Nick Kollerstrom, and a computer calendar program. To order the book, contact amazon.com.*

Gardening for Life: The Biodynamic Way (1999), by Maria Thun. Hawthorn Press, Stroud, Gloucestershire, UK. 128 p.

A "how-to" gardening book that provides an understanding of both the mundane and esoteric practices of Biodynamics. The only book I'm aware of that illustrates the

*“ashing” procedure for pest and weed management. Well-written by one of the best-known practitioners of astrological gardening. Available from the Biodynamic Farming and Gardening Association (see **Resources: Introduction**).*

Ian's Lunar Pages www.planetfusion.co.uk/~pignut/index.html

This Web site features a wide array of information relevant to lunar gardening and other activities.

In Defense of Astrology: Astrology's Answers to Its Critics (1991), by Robert Parry.

Llewellyn Publications, St. Paul, MN. 224 p.

I hesitated to include this book in the resources. It is biased and less scientific than either of the books titled The Scientific Basis of Astrology..., which are reviewed later in this resource list. However, it presents some interesting explanations that might prove useful to someone researching moon sign work for agriculture or other applications. Available from amazon.com.

Llewellyn's (200_) Moon Sign Book. (The author for the 2004 issue is Gloria Star.)

Llewellyn Publications, St. Paul, MN. Approximately 375 p. Updated annually.

*One of the most popular gardening almanacs. Contains a large amount of gardening and related information. Widely available and can be ordered from Acres U.S.A. Bookstore (see **Resources: Introduction**).*

Man, Moon and Plant: A series of articles reprinted from “The Theosophist.” (c.1925).

by H.E. Staddon. Borderland Sciences, Eureka, CA.

Very esoteric. Was available from the publisher, but is not currently listed in the on-line catalog. May require special ordering from the publisher.

Borderland Sciences

Post Office Box 6250

Eureka, CA 95502

www.borderlands.com/main1.htm

Moon Rhythms in Nature: How Lunar Cycles Affect Living Organisms (1997), by

Klaus Peter Endres and Wolfgang Schad. Floris Books, Edinburgh, UK. 275 p.

*A scientific text that addresses biological rhythms in plants, animals, and humans associated with lunar cycles. Translated from German. Available from Anthroposophic Press (see **Resources: Introduction**).*

Northern Star Calendar, by Brian Keats. Updated yearly. Published by the Author,

Bowral, Australia. www.acenet.com.au/~astrocal

*This is the northern hemisphere version of the Antipodean Astro Calendar, which is written by the same author. Practical, highly detailed, and well-illustrated. Biodynamic practices are incorporated. Available from Acres U.S.A. Bookstore (see **Resources: Introduction**).*

The Old Farmer's Almanac. Revised annually. Yankee Publishing Inc., P.O. Box 520,

Dublin, NH 03444, 603-563-8111. www.almanac.com/index.php

Probably the best known and most widely used. Widely available or order from the publisher.

Yankee Publishing Inc.
P.O. Box 520
Dublin, NH 03444
603-563-8111
www.almanac.com/index.php

Planetary Influences Upon Plants (1984), by Ernst Michael Kranich. Bio-Dynamic Literature, Wyoming, RI. 182 p.

*Typifies the Biodynamic approach to studying plants and their relationship to astrological phenomena. In-depth and helpful in explaining the rationale behind almanac and calendar recommendations. Available from Borderland Sciences (see *Man, Moon, and Plant...above*) and the Biodynamic Farming and Gardening Association (see **Resources: Introduction**).*

The Plant Between Sun and Earth (1982), by G. Adams. Random House, New York, NY. 224 p.

Available from amazon.com

Raising Animals by the Moon (1999), by Louise Riotte. Storey Books, Pownal, VT. 187 p.

*Another typical Riotte book, and the only one I know of that is focused solely on raising and caring for animals astrologically. Deals with all common livestock plus bees, fish, pigeons, rabbits, dogs, and cats. Final chapter deals with herbal therapy for animals. Available from Acres U.S.A. Bookstore (see **Resources: Introduction**).*

Raising With The Moon: The Complete Guide to Gardening and Living by the Signs of the Moon (2003), by Jack R. Pyle and Taylor Reese. Parkway Publishers, Inc., Boone, NC. 160 p.

This is the first of Pyle and Reeses's two books on this subject. Originally written in 1993, it was republished in 2003. This book is highly detailed and relates specific practices to astrological timing. Also delves into the scheduling of livestock raising practices such as weaning, dehorning, castration, and slaughtering. Available from amazon.com.

Results from the Biodynamic Sowing and Planting Calendar (2004), by Maria Thun. Floris Books, Edinburgh, UK. 224 p.

*Results of 40 years of research working with cosmic rhythms. Is an update of the author's *Work on the Land and the Constellations*. Available from the Biodynamic Farming & Gardening Association, (see **Resources: Introduction**).*

The Scientific Basis of Astrology: Tuning to the Music of the Planets (1992), by Percy Seymour. St. Martin's Press, New York, NY. 277 p.

An extensive and well-researched book on cosmic rhythms and what effect they have on biological organisms. One short section specifically addresses agriculture. Available from amazon.com

The Scientific Basis of Astrology: Myth or Reality (1970), by Michel Gauquelin. Stein and Day, New York, NY. 255 p.

A nicely researched book with good history of the development of astrology. Available from amazon.com.

The (200_) Solar Lunar Calendar, by Hawkdancing. Hawkdancing Studio, #42 1-1/2 St., Clear Lake, WI 54005, 715-263-2756. Revised annually.

www.hawkdancing.com/solarlunar.shtml

A decorative solar lunar wall calendar. Order from the publisher.

Hawkdancing Studio

#42 1-1/2 St.

Clear Lake, WI 54005

715-263-2756

Stella Natura (200_), by Sherry Wildfeuer. Bio-Dynamic Farming and Gardening Association, Junction City, OR. Approximately 40 p. Updated annually.

*Also known as the Kimberton Hills Biodynamic Agricultural Planting Guide and Calendar. Available from the Bio-Dynamic Farming and Gardening Association (see **Resources: Introduction**) and Acres U.S.A. Bookstore (see **Resources: Introduction**).*

You and the Man in the Moon: The Complete Guide to Using the Almanac (1995), by Jack R. Pyle and Taylor Reese. Down Home Press, Asheboro, NC. 123 p.

*The second of Pyle and Reeses's two books. Compared to the first book – Raising With the Moon... – this one goes into history and detail about almanacs, the symbols used, and other details not well addressed in other sources. Interesting sections on weather forecasts and fishing. Available from Acres U.S.A. Bookstore (see **Resources: Introduction**).*

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¹ To read the National Organic Program regulations affecting livestock health management, see §205.238. To see which synthetic materials can be used, and which natural materials cannot be used, see §205.603 and §205.604, respectively. The National Standard can be found on the NOP Web site at <http://www.ams.usda.gov/nop/>.

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