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WHAT IS PSYCHOTRONICS?

Beverly Rubik, Ph.D.
President, USPA

Psychotronics originally referred to the mind (*psycho*) operating devices (*tron*) with thought. This term came out of parapsychology in the 1960s in Czechoslovakia. The early psychotronics researchers conceived of and built psychotronic generators—sacred geometrical forms composed of pyramids and cones along with crystals, copper coils, and other materials. Unlike most machines, these devices were “operator dependent”—having various effects depending upon the operator and the directed intention—and demonstrated positive effects on people, animals, plants, and processes.

Today our interests are more broadly based. The US Psychotronics Association (USPA) investigates and applies science and technology to interactions of mind, matter, spirit, consciousness, and the underlying forces of life and nature. Psychotronics challenges the dominant scientific worldview because it deals with the power of consciousness to interact directly with the physical world, which is not considered in mainstream science. However, numerous lines of scientific and other evidence point to severe limitations of the dominant paradigm, which holds that consciousness is only a passive observer. We are among those mavericks shaping the new worldview in which consciousness plays an active role in generating physical reality.

Our membership is quite diverse and fascinating. Some USPA members are frontier scientists conducting research on the effects of intention and subtle energy healing on systems such as structured water and its memory, plant growth, and the integrity of DNA. We are also concerned about the impact of electromagnetic pollution from the proliferation of wireless devices in our environment and how to protect ourselves. Other members are practitioners and teachers of radionics, using directed intention to assess and improve the well-being of living systems through the use of radionics devices, pendulums, and dowsing rods. Still others practice energy therapies ranging from hands-on healing to use of sound and light therapies, homeopathy, Oriental medicine, and other complementary modalities. Some members are skilled intuitives who can assess the biofield and subtle energy directly, without any tools. Still others are exploring psychotronics for personal growth and evolution. Despite our differences, we have much in common as we are all open-minded persons focused on expanding our understanding of nature, consciousness, and the full human potential. We enjoy camaraderie and sharing our new learning with one another.

One main focus of the USPA is the existence of a cosmic energy or bioenergy, also called *qi* in Oriental medicine and *prana* in Ayurveda—associated with the biofield

or life force. Energy may be mobilized with directed intention, which corresponds to the principle of ancient Eastern philosophy—“where mind goes, the *qi* flows.”

Psychotronics devices may serve as resonators or conduits of a cosmic energy affecting living systems at a physical level. The biofield, the energy field of each organism, is also fundamental.

Is this cosmic energy an aspect of science that has somehow been overlooked, or a new form of energy? We are taking a deeper look at the science of Nikola Tesla, among other pioneering scientists, who have been largely ignored. We are also revisiting the “aether” in physics that was displaced by a materialistic worldview, but may actually be the quintessence underlying physical reality, and the etheric body in radionics, to expand the scientific perspective.

(For a more in-depth discussion of psychotronics with Dr. Rubik and Dr. Mishlove, [click here for a 32 minute YouTube video](#).)

Beverly Rubik earned her doctorate in biophysics at the University of California at Berkeley. She is renowned for her research on the biofield, structured water, and energy healing. She is president/founder of Institute for Frontier Science in Oakland, California; professor at Energy Medicine University; author of over 90 papers and 2 books; and president of the US Psychotronics Association. www.psychotronics.org
www.brubik.com www.frontiersciences.org

2019 Annual USPA Conference Update

July 26-28, 2019



The 2019 United States Psychotronics Association (USPA) conference will be held July 26-28, 2019, at the beautiful Doubletree Hilton Hotel in Skokie, Illinois, a suburb of Chicago. (pictured at left). Please note this date on your calendar.

The title of this coming year's conference is "The Art, Science, and Technology of Healing Energies."

Internationally known speakers, including Dr. Beverly Rubik, Dr. Glen Rein, Dr. Linda Lancaster, Lutie Larsen, Dr. Ellen Kamhi, Shabari Bird, Hugh Lovel, Dale Pond, Gaetan Chevalier, and others will be discussing the latest developments and research on **energy medicine and healing, scalar waves, and quantum fields** and how they can be used in a wide variety of healing modalities. Their research continues to advance the pioneering efforts of **Albert Abrams, Robert C. Beck, Ruth Drown, T. Galen Hieronymus, Georges Lakhovsky, Wilhelm Reich, Royal R. Rife, Nikola Tesla, and Marcel Vogel.**

In addition, we are again holding **Pre-Conference and Post-Conference Workshops**. The USPA's Radionics 101 Workshop will start on Thursday, July 25 and end at noon on Friday, July 26, before the conference begins. Write to uspsychotronics@yahoo.com to sign up for this enlightening workshop.

Further updates will be sent out in the coming months as more conference speakers are selected for this special event involving leading edge sciences. Please send your inquiries to: uspsychotronics@yahoo.com

Call for Vendors/Exhibitors:

The USPA welcomes vendors and exhibitors representing groups, firms, and organizations focused on the interactions of matter, energy, and consciousness. Write to uspsychotronics@yahoo.com for fees, space needed, and other information you need to exhibit and sell your products and services.

[Become a USPA member for only \\$35](#)

**Support our All Volunteer - Non-Profit educational organization
A 501c3, founded in 1975 as the US Radionics Congress**

**We have over 1200 talks recorded since 1978 available
on audio mp3, MP4 format and DVD's. See the newsletters for recent talks.**

Speaker Information, membership, registration at www.psychotronics.org

Like us on [Facebook at U.S. Psychotronics Association](#)

Email inquires to conferences@psychotronics.org

US Psychotronics 2017 Conference DVD Order Sheet			
DVD	No.	Name	Presentation Title
	2017-1	Jon Klimo, Ph.D / Scott Beutlich	Welcome / USPA "Ted Talk"
	2017-2	Nick Begich	Mind Control: A Brave New World or Enhancing Human Performance
	2017-3	George Kuepper	Radionics & Biodynamics in the Garden: Tuning in to Nature
	2017-4	Lorna Reichel	Unseen Worlds of Subtle Energy
	2017-5	Don Paris	Consciousness Interactive Technology in the 21st Century
	2017-6	Glen Rein	The Holographic Nature of the Mind and its Role in Mediating Higher Order Healing Phenomena
	2017-7	Beverly Rubik and Harry Jabs	The Memory of Water and Beyond
	2017-8	Michael Leger	21st Century Radionics – Theory and Practice
	2017-9	Ed Kelly	Radionics: Easy as 1-2-3!
	2017-10	Jon Klimo, Ph.D.	Nonlocality, Higher-dimensionality, and Radionics
	2017-11	Judy Lynne Cole	K.I.S.S. "Hello" to the Next Collaborative Revolution in the Industries of Health, Art and Music
	2017-14	Linda Lancaster	Endocrine System and its Role in Radionics
	2017-15	Ellen Kamhi	Pineal Stimulation for Higher Health and Consciousness: Radionics - Dowsing - Botanicals
	2017-16	Elizabeth Rauscher	Psychotronics, PSI and Consciousness: A New Revolution
	2017-17	Dan Taylor	History and Overview of Radionics
	2017-18	Marty Lucus	Higher Octaves of Physical Frequencies
	2017-19	Rainer Fromknecht	Body – Water as a Conducting System for Electromagnetic Information
	2017-20	Craig Dongoski	Mental Radio
	2017-21	Scott Ertl	Magnetism and Polarity
	Full Conference Set \$195 with shipping		
Number of DVDs _____ x \$12 _____ + Shipping: _____			
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2016 US Psychotronics Post-Conference DVD Order Sheet

MP4	DVD	ID	Speaker and Lecture Title
		2016-1	Dr. Beverly Rubik & Harry Jabs- "Geometry Coupled with Intention: Effects of a Pyramidal Structure"
		2016-2	Dan Taylor - "The Physics of Radionics – USPA Luminaries Light the Way"
		2016-3	Panel Discussion- "Subtle Energy w/ E. Kamhi, J. Klimo, G. Rein, E. Rowley, B. Rubik, W. Tiller, Dan Taylor"
		2016-4	Ed Kelly - "The History of Kelly Research Technologies"
		2016-5	George Kuepper - "Practicing Radionics for Farming and Gardening: Past, Present and Future"
		2016-6	Tim Lippert - "Elimination of Lyme Disease, Allergies, and the use of Radiation Hormesis"
		2016-7	Dr. Don Paris - "The Latest Advances in Radionics"
		2016-8	Lutie Larsen and Linda Lancaster - <i>Radionics Cameras of the 1900s</i>
		2016-9	Marty Lucas - "Geometry and the Shape of Disease"
		2016-10	Panel Discussion - "Radionics / G. Kuepper, E. Kelly, L. Larsen, L. Lancaster, T. Lippert and D. Paris"
		2016-11	Dr. William Tiller - "The Power of Human Intention and its Many Applications"
		2016-12	Gayle Mack - "Spiral Breath and the Glia Brain: Activate Higher Consciousness"
		2016-13	Tom Masbaum - "Consciousness - Some Effects of Emotions and Memories on the Body"
		2016-14	Judy Lynn Cole - "Phase Shifting"
		2016-15	Dr. Glen Rein - "Subtle Light Energy and the Substratum: Bio-Physics and Mysticism"
		2016-16	Dean Radin - "Skype: Mind-Matter Interactions at the Quantum Level"
		2016-17	Geoffrey Miller - "Free Energy 30 Years Ago and Where We are NOW in 2016"
		2016-18	Ellen Kamhi - "Herbs, Dowsing, and Radionics: Self-Care Techniques for the Coming Times"
		2016-19	Dr. Karl Maret - "Exploring Subtle Energies in Energy Medicine"
		2016-20	Dr. Jon Klimo - "Radionics: Working with the Post-Cartesian Unified Field"
		2016-21	Kenneth Diehl - "Subtle Energy Relationships in Human Form and Function"
		2016-22	Mary Hardy - "Balancing the Grid so the Schumann Resonance Does Not Affect Human Consciousness"
		2016-23	Dr. John Reed - "Evidence Based Psychotronics"
		Totals	Prices:: 15.00 Each - Plus Shipping (see box below)

Special! - Buy 4 get the 5th one FREE		Full Conference Set \$215		
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MP4 Price - _____ x \$15 _____		Due \$ _____		
Amount Paid		Name		
\$ _____		Full address		
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Note: If a recording is not available for whatever reason, you will be given a refunded or credit.

Short News, Notes, and Queries

(If anyone would like to make a short news announcement, report something, has a question about anything related to psychotronics and related subjects, or has any information or comments about any of the following notes and queries, please write to the editor, John Reed at: joreed43@gmail.com)

1. **Italian Translator Needed for Book by Dotto Ring Inventor:** The Dotto Ring was a medical device invented by Dr. Gianni Dotto in the 1970's, and is said to have been used to successfully treat a number of diseases, including cancer. The device was also said to have the ability to slow or reverse aging in mammals. At that time, Dr. Dotto, wrote a 37 page book in Italian, that described how the machine was built, operated, and was able to achieve these remarkable results. However, there are no known English translations of this extremely rare book, which a member of the USPA has a copy of. Is there anyone who speaks Italian fluently who would be willing to translate this short book into English? If so, please contact, John H. Reed, M.D. at joreed43@gmail.com
2. **Trevor James Constable Book or Manuscript about Ruth Drown Wanted:** Does anyone happen to know about, or possess, a book or manuscript about Ruth Drown that was written by Trevor James Constable? It is not certain if this book was ever published, so it may be only in manuscript form. It is well known that Constable wrote a chapter about Ruth Drown in his book, The Cosmic Pulse of Life. However, there is a report that he also wrote an entire book about Drown. If that book exists, it is not known to be in any library in the United States, Canada, or Europe.
3. **Neurophone Devices Wanted:** Does anyone have any old neurophones that they would be willing to sell, rent, or lend for research and application purposes? The neurophone was originally invented by G. Patrick Flanagan in the 1950's, and enabled people who were completely deaf to hear. This non-invasive device was somehow able to bypass the auditory nerve, and interact directly with the auditory region of the brain, allowing a deaf person to hear. This device is needed to treat a patient of a colleague of John H. Reed, M.D. Please write him at: joreed43@gmail.com if you have such a device or know someone who does.

4. **Seeking Radionics Practitioner in Ohio:** Rebecca Cotterman is looking for a radionics practitioner in Ohio. If you are a practitioner in Ohio, or know one in Ohio, please contact Rebecca at: cotterman@hotmail.com
5. **Does anyone know anything about a man named William Lehr (1933-1996), who lived in Scammon, Kansas, and who developed several energy and healing devices, and made a reproduction of the T. Henry Moray energy device?** In addition, Lehr is said to have created a high-powered spark-gap device for healing purposes that cured a man who had been sent home to die, as well as, a huge bibliography of articles and books dealing with new energy sources and energy medicine and treatment.
6. **Does anyone know the whereabouts and/or contact information of Dr. Robert N. Miller?** At the 1978 USPA Conference, Dr. Miller gave a presentation with Pierre Paul Sauvin titled “Methods of Detecting and Measuring Healing Energies.” That was the only time that Dr. Miller ever spoke at a USPA conference, and we would like to follow up with him on any research he has done since that time.
7. **We have been recently informed that one of the radionics devices that Jerry Gallimore invented in the 1970's or 1980's used a GSR meter in place of a stick plate.** Does anyone happen to have or know anything about this particular device? Such a device would be very significant, because if there is a such a radionics device that can be successfully used without a stick plate, which depends on the sensitivities and subjectivity of the user, it would enable nearly anyone to use that radionics device. One of the problems that beginners in radionics often have is the detection of the “stick”, on the stick plate, and some people are never able to develop this ability.
8. **Do any of you know anyone who has ever owned, used, or did research on the Dotto Ring?** This was an electrotherapy treatment device, pictured at left, developed by Dr. Gianni Dotto back in the 1970's and is said to have been was used successfully to treat cancer and other diseases in humans and animals. In addition, the Dotto Ring was also said to be able to slow down the aging process and even rejuvenate individuals to some degree.
9. **Does anyone have video tapes of the presentations that Andrija Puharich made at the 1982 US Psychotronics Association Conference?** The title of Dr. Puharich's

first presentation was: “Chemical Compounds: Receptors of Artificial ELF”, and was sold for a period of time on the USPA website with this title and catalog number F6.

The second presentation that Dr. Puharich made at the 1982 USPA Conference was the Keynote Address at the Awards banquet. The Title of this presentation was “Kindling + 1” and had catalog number F7. If anyone has either or both of these tapes, please contact the editor, John Reed at: joreed43@gmail.com.

Andrija Puharich, Chemical Compounds: Receptors of Artificial ELF (1982) F6

Andrija Puharich, Keynote Speaker:, Kindling +1; Awards Banquet (1982) F7

Among the Missing, (and Updates): A Column about Missing People, Organizations, Periodicals, Books, Artifacts, and Collections in the Psychotronics Field

by John H. Reed, M.D

This is a new “column” or section of the USPA Newsletter, and will be an ongoing part of every issue, with the purpose of helping the USPA, as well as, our members and research associates locate people, organizations, periodicals, books, artifacts, devices, collections, and other items that have seemingly disappeared, or have been extremely difficult to find. **Updates will be added, and each missing item will be retained in future issues until it is found or otherwise resolved, since some readers may not have seen prior issues of the USPA Newsletter or the original notice of the missing item.**

In addition, this will also serve as a “People Locator Service” to help find authors and researchers on psychotronics, radionics, subtle energies, energy medicine, and related subjects, who have “disappeared” or have died long ago, and whose relatives you may be trying to find in order to preserve the research papers and collection of that person.

In our research and reading, we all have encountered people, organizations, periodicals, books, articles, or other things that we have tried to find, and some people have searched for years to find something, but have not yet found it, despite the vast resources of the Internet. However, with our large USPA membership, we can all help one another find what we have been searching for. Some of you may have experience in genealogical research, or private investigation, law enforcement, or even intelligence work which you could utilize to help each other, or perhaps just make suggestions on how or where to search for something.

So if there is anything you have been searching for and need help to find, please write to me, John H. Reed, M.D. at: joreed43@gmail.com, and I will include your search help request in the next and subsequent issues of the USPA Newsletter. And if you have any information about an item that is listed in “**Among the Missing**”, please write to the same email address and share what you know or your suggestions. If there is something that is confidential, your confidentiality request will be honored and protected.

Missing Person: Willard Frank , also known as Bill Lawson



We are trying to find any relatives or other people who personally knew Willard Frank, also known as Bill Lawson, who was the developer of the radionics device called the Digitron. This device, a photo of which appears at left, was invented by Willard Frank in the early 1980's, and is reported to be the forerunner of the SE-5, which Don Paris has developed into one of the finest radionics devices in the world.

Willard Frank is reported to have died in 2009, and there is some question as to whether his real name was Willard Frank or Bill Lawson. If any reader knew Willard Frank, or where he lived, or any of his relatives, please contact the editor, John Reed at: joreed43@gmail.com.

The USPA would also like to obtain one of the Digitron devices for the USPA Museum. If anyone has a Digitron (or knows someone who does) and would like to donate it to the USPA or sell it for a reasonable price, please contact the editor.

Missing Inventions: The Missing Invention of Arthur H. Matthews to Control Insect Pests, Microbes, and Diseases at a Distance

Where are the patent and invention by Arthur H. Matthews, a Canadian, who in his own words stated “This refers to my invention of selective control – at a distance – with no physical contact – to control any form of germ – any sickness – all kinds of insect[s] which cause damage to forest, garden and human[s].” Those words appeared in Matthews’ own hand writing at the bottom of a reproduced letter on Appendix page A-10 of his book, *The Wall of Light*, which he published in 1971. But the big mystery is that the Canadian Patent Office database of patents does not show this invention or any other invention by Arthur H. Matthews.

Interestingly, correspondence of the Canadian Commissioner of Patents shows the title of the invention as “Methods for the Control of Insect Pests” and the patent **application** number of: 510,626, but not the number of the patent, if it was ever granted. So the question arises: What happened to this wonderful invention by Mr. Matthews, and why does the Canadian Patent database have no record of this device whatsoever in its database of patents?

Further details on this mystery are available in an article titled, “Among the Missing” Special: The Missing Invention of Arthur H. Matthews to Control Insect Pests, Microbes, and Diseases at a Distance” in the [February, 2018, issue of the USPA Journal and Newsletter, pages 24-27, available here](#).

If anyone has any information about this invention by Arthur H. Matthews, please write to the USPA editor, John H. Reed, M.D. at: joreed43@gmail.com.

Missing Device: Marcel Vogel’s Omega- 1 Radionics Instrument

In a 1987 meeting presentation, [YouTube Video, available here, beginning about 4:20](#), Marcel Vogel states that he had been trying to find a way by which he could measure the subtle energies and fields in the crystals he was working with, and that he prayed to God to give him an instrument to make such measurements. Marcel says that about two months later, a man named Daniel Perkins, apparently guided by higher forces to build such an instrument, came to Marcel’s door and said, “Here is your instrument, the Omega-1. You will know how to use it,” and walked away. **But where is that particular Omega-1, and were any other Omega-1 instruments built?** It is known that other Omega models of radionics instruments were produced, especially Omega-5 instruments, but it is not known if the company that built them still exists. **In addition,**

does anyone know who Daniel Perkins is, and where he is located? Anyone who can shed light on this mystery, please write to the editor at: joreed43@gmail.com.

Missing Psychotronics Device:

The AGRAD Machine: In the 1970's Mankind Research Unlimited, Inc.(MRU), headed by Dr. Carl Schleicher, was offering for sale a device called the AGRAD Machine. It was intended to be used in the electromagnetic treatment of crops and the control of insect populations, and sold for \$390.00. MRU claimed that AGRAD machines had been used for several years by MRU researchers to conduct experimental applications of the type described in **The Secret Life of Plants** by Christopher Bird and Peter Tompkins, and **Report on Radionics** by Edward W. Russell. Theoretically, the AGRAD machine was intended to produce effects through electromagnetic wavefronts that would interact with and control insects by disturbing the insect sensor mechanisms. A photo of the device and additional information appeared in one of MRU's publications [which you can access here](#).

Experimental Electro-Culture

by L. George Lawrence

This is a very interesting article dealing with the use of electrical methods, including direct current and electrostatic fields to stimulate plant growth and enhance product yield. Lawrence gives a brief history of these methods, which goes back to the 1800s. He goes on to show a number of experiments he conducted to stimulate plant growth with electrical methods, and shows how these methods could potentially replace chemical fertilizers. This is probably something that the Big Chem industry would not like to see happen.

This article was originally published in Popular Electronics (February, 1971). For copyright reasons, this article cannot be republished directly in the USPA Journal and Newsletter. However, it is freely available online at the following link, so just click on it and you can read the article in its entirety:

https://borderlandsciences.org/project/bio-icomm/lg.lawrence/Experimental_Electroculture.html

If you are unable to access the article via the above link, please contact the USPA Journal & Newsletter editor, John H. Reed at joreed43@gmail.com.

The History and Development of Radionics, Part 1

By The Radionist

This is the first of a nine part series of articles that gives a good portrayal of the history and development of radionics from its inception with Dr. Albert Abrams in the early 1900s, up to the 1960s, when the articles were published. It is uncertain who the author is, but he or she clearly has extensive knowledge of this subject. (If anyone knows the identity of “The Radionist”, please write the editor at: joreed43@gmail.com)

This article was originally published in the Journal of Borderlands Research, vol. 24, no. 5 (Sept.-Oct., 1968). For copyright reasons, it cannot be republished directly in the USPA Journal & Newsletter. However, it is freely available online at the following link, so just click on it and you can read the article in its entirety:

https://borderlandsciences.org/journal/vol/24/n05/The_History_and_Development_of_Radionics_I.html

If you are unable to access the article via the above link, please contact the USPA Journal & Newsletter editor, John H. Reed at joreed43@gmail.com.

Could Cancer Be a Disease of Magnetic Body?

by Dana Flavin, Matti Pitkanen

(USPA Journal Editor's Note: This is an articles published in the vol. 8, no. 3 (2018) issue of The DNA Decipher Journal . This is an excellent journal edited by Huping Hu, Ph.D., J.D. and Maoxin Wu, M.D., Ph.D., of QuantumDream, Inc., New York, with many articles that are of importance to researchers on psychotronics, radionics, subtle energies, biophotonics, wave genetics, and related subjects. Their home page is: <http://www.dnadecipher.com/index.php/ddj/index>)

Abstract

Li and Heroux have made a highly interesting discovery. The treatment of cancer cell population by 60Hz oscillating magnetic field with extremely small strength above 25nT leads to a reduction of the abnormally large chromosome number of the mitochondria of cancer cells and eventually the cancer cells return to the normal state.

TGD based explanation for the findings relies on the basic notions of TGD inspired quantum biology. The basic notions are magnetic body (MB) and hierarchy of Planck constants $h_{\text{eff}} = nh_0$ ($h = 6h_0$) emerging from the adelic physics as a prediction, but originally proposed on basis of anomalous effects of ELF em fields in living matter. The value of n can be relatively small or very large corresponding to flux tubes mediating em and gravitational interactions. The anatomy of MB has remained unclear hitherto, but in this article a detailed model is developed allowing to understand the formula $h_{\text{gr}} = h_{\text{eff}} = ngrh_0$ for gravitational Planck constant and leading to a further formula for h_{gr} relating magnetism and gravitation.

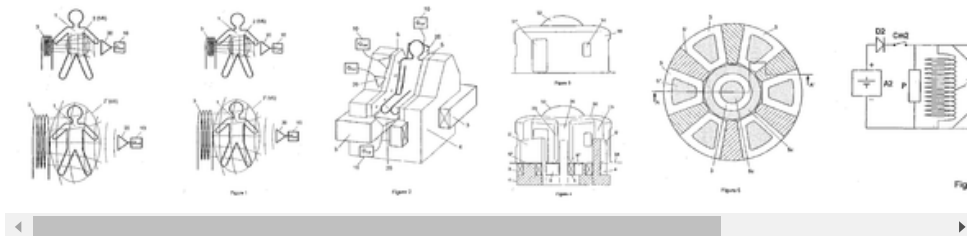
A further central notion is TGD based model for water memory as the ability of the MB of water to control the thickness of its flux tubes to entrain with external frequencies and reproduce them. This is a central element in the TGD based view about immune systems and homeopathic effects. Cancer would reduce to a disease of the MB of the system, to a high degree determined by MB of water and homeopathy like treatment based on irradiated water could serve as a cure. The model is applied both to the findings of Montagnier's group about remote regeneration of DNA without template and to those of Li and Heroux.

Set of Electromagnetic Fields Having Diagnostic, Preventive, Therapeutic, and Biotechnological Purposes by Mohamed Ayari and Arthur Balana Cervero

Abstract (Editor's note: To enhance readability of this patent, go to the "View" tab, and enlarge it to 125% or 150%;)

The process, object of the present invention, is biophysicoclinical in nature. It is the fruit of the emergence of a clinical approach to illness, diseases and disorders which is a global psychosomatic approach. The process has diagnostic, preventive, therapeutic and biotechnological implications. The fundamental basis of the process consists in producing and overlaying in a volume of exposure—containing part or whole of a living subject, animal or human being—a magnetic field and one or several very high frequency electromagnetic fields, the latter being essentially angle modulated. The biological effects thus produced are many and varied; they can be observed, in particular, in the stimulation of certain defense systems of the body, such as the intensification and reinforcement of the immune defenses.

Images (7)



Classifications

A61N5/02 Radiation therapy using microwaves

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Claims (17)

- 1) Process whereby a set of electromagnetic fields is obtained, said set having diagnostic, preventive, therapeutic and biotechnological purposes, characterised in that it consists in producing and overlaying in a volume of exposure (VE) a magnetic field and one or several very high frequency (VHF) electromagnetic fields, the latter being essentially angle modulated.
- 2) Process according to claim 1, characterised in that the magnetic field is uniform in the VE.
- 3) Process according to claim 1, characterised in that the magnetic field is not uniform in the VE.

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US Application

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4. 4) Process according to claims 1 to 3, characterised in that in terms of time the intensity of the magnetic field is constant.
5. 5) Process according to one of claims 1 to 3, characterised in that in terms of time the intensity of the magnetic field varies; the time function describing the variation in the magnetic field is preferably periodic and has a frequency spectrum typically between 1 and several tens of Hertz.
6. 6) Process according to claim 1, characterised in that each VHF electromagnetic field has a sinusoidal carrier frequency typically between 1 GHz and 20 GHz.
7. 7) Process according to one of the claims 1 or 6, characterised in that each VHF electromagnetic field is an EM wave.
8. 8) Process according to one of claims 1, or 6 to 7, characterised in that each VHF electromagnetic field is angle modulated; the time function describing the modulated angle signal is preferably periodic and has a frequency spectrum typically between 10 MHz and 300 MHz; minimum modulation index is typically in the range of $\pi/4$.
9. 9) Process according to one of claims 1, or 6 to 8, characterised in that the state of polarisation of each VHF electromagnetic field varies in terms of time; polarisation is linear and/or elliptic, oriented right or left, and/or circular, oriented right or left; the time function, continuous or discrete, describing the variation of the angle of polarisation is preferably at a uniform probability density.
10. 10) Process according to one of claims 1, or 6 to 9, characterised in that each VHF electromagnetic field is amplitude modulated; the time function describing the modulated amplitude signal is preferably periodic and has a frequency spectrum typically between 1 KHz and 1 MHz.
11. 11) Device to implement the process according to claims 1 to 10 for diagnostic, preventive, or therapeutic purposes, characterised in that it includes:

one or several generators each producing a modulated angle, and if required a modulated amplitude, VHF signal; each generator is followed by an applicator transforming the VHF signal into a VHF electromagnetic field in the VE and, if required, varying the state of polarisation of said field.

one or several superconductor coils, or one or several magnetized masses producing a constant magnetic field in terms of time; or, one or several conducting coils producing a constant or variable magnetic field in terms of time,

and several magnetic circuits associated with coils or magnetized masses and presenting head gaps between their field poles at the level of the VE;

a structure, receptacle and envelope, open or closed, surrounding the VE and containing the means necessary to apply, in said VE, the magnetic field and one or several VHF electromagnetic fields.
12. 12) Device according to claim 11, characterised in that (FIG. 7) each generator of a modulated VHF signal (10) consists of an oscillator (11) generating a sinusoidal VHF carrier frequency, if required an amplitude modulator (12) and the generator producing the associated amplitude modulator signal (15), an angle modulator (13) and the generator producing the associated angle modulation signal (16) and, if necessary, a VHF amplifier (14).
13. 13) Device according to claim 11, characterised in that (FIG. 8) each applicator (20) which varies the state of polarisation consists of two tracks into each of which is injected a modulated VHF signal produced by a generator (10); a phase shifter (26) shifts the signals between the two tracks; in each track, the signals are modulated in amplitude by the respective amplitude modulators (24')(24''), which may be amplified by the respective amplifiers (25')(25''), and converted in the VE into two VHF electromagnetic fields, rectilinear polarised and orthogonal in relation to each other, through respective sub networks of radiating elements (21') (21''); a generator (23) produces the modulating signals for the state of polarisation.
14. 14) Device according to claim 11, characterised in that each conductor coil is fed by a release/recovery current generator (FIG. 6) which is based on a bridge of four thyristors; a first pair of thyristors (Th1/Th2), arranged on two opposite branches of the bridge, is switched so as to discharge into the coil (3) a capacitor (C) charged previously by means of subsidiary supply (A1); a supply (A2) maintaining current in the coil (3) takes over when the capacitor (C) is discharged; when A2 stops, the magnetic energy stored in the coil (3) is released electrically to the capacitor (C) by means of the two thyristors on the two opposite branches (Th3/Th4).

15. 15) Device according to claim 11, characterised in that (FIG. 2), for the open structure, the shape and dimensions of the field poles (5) and of the magnetic circuit (4)—applying the magnetic field to the VE—enable the size of a subject, such as a human being, to be largely contained in the VE, said subject being able to adopt either a sitting or lying position.
16. 16) Device according to claim 11, characterised in that (FIGS. 3, 4, 5) the closed structure is of a circular shape on the outside (30), on a vertical axis, of a diameter in the region of 2.5 m, with rounded contours, surmounted by a transparent dome (32); the interior volume is divided into lateral wings, typically 6 in number, by the field poles (5) which are placed above the floor (34) and aligned according to the rays, leaving a circular space in the centre in the region of 1 metre in diameter; the partitions (33) demarcating the VE at the level of each wing; each wing may have one opening (31) or one passage way (31') communicating with the outside; the coils (3) or magnetized materials and remainder of the magnetic circuit (4) are to be found under the floor (34); the VHF electromagnetic field applicators are arranged in the volumes (35).
17. 17) Use of the process according to claims 1 to 10 within a process susceptible to industrial application whereby a biological substance is obtained.

Description

GENESIS OF THE INVENTION

- [0001] The present invention is in keeping with our reflection and questioning over a long period of time concerning professional practices in the clinical field, and in the fields of biology and physics. This questioning was not simply reduced to the scope and the limits of these practices. It was also, and more particularly, aimed at identifying the principle obstacles which prevent them being put into practice on a significant scale.
- [0002] These days we are far from a global, holistic approach to the patient, taking the entire person, their life and circumstances, into account; as if it were impossible to restore to the patient a unifying representation of himself. So, to try and overcome the deep seated obstacles preventing the emergence of a pacifying global mediation concerning the patient as a whole, the solution seems to lie in the fundamental rehabilitation of clinical practices.
- [0003] In Latin, clinicus means “by the bedside of one who suffers.”
- [0004] By placing ourselves right from the start in relation to the patient's suffering, we are describing the ethics on which we have based our multidisciplinary study: to relieve this suffering.
- [0005] The world of autism and psychosis is undoubtedly one of the most puzzling and complex worlds, but also one which is full of lessons of all sorts. The global face of these particular psychosomatic disorders is indeed quite troubling: troubling because there are disturbing flaws—structural and cultural—in our so-called therapeutic point of view.
- [0006] It was therefore profound questioning about our practices concerning so-called autistic and psychotic children, that a different clinical point of view emerged.
- [0007] This encouraged us to listen—in a different way—to the global symptoms in order to better understand (a) what they are based on and (b) to welcome the global re-emergence which has long been held in check.
- [0008] While the patient is still looking for global mediation, partial mediation, psychological mediation, even if effective, can only partially assist him. Indeed, if for psychological mediation this globality remains unattainable it is because it can have no direct and immediate action on the somatic apparatus. Based on restricted views, glued exclusively to the psychological, it does not have a specific power to stir the somatic apparatus. Whence the need to develop mediation which would help to stir the somatic apparatus and thus contribute to the emergence of a form of global mediation to assist the patient in his psychosomatic globality.
- [0009] Having regard for the patient as a whole would lead us to restore a truly pacifying discourse to our words and the functions of mediation to our tools for treatment.
- [0010] To attempt to work in this direction, we have rooted our mediator—support for somatic mediation—in the clinical field.
- [0011] On the biophysical level, the basis of our invention is a series of instruments which enables particular electromagnetic fields to be associated in a particular fashion. The object of applying them to a living organism is to emphasize its natural abilities without altering the somatic apparatus, without generating harmful side effects and without leading to dependence.
- [0012] These instruments only came to light after in-depth and detailed examination of the scope and the limits of a biophysical lead, provided by Antoine Prioré and his collaborators, the only one as far as we are concerned that is really promising.

- [0013] We were able to examine in depth the whole of the “Prioré file,” a unique source of information consisting of several thousand detailed and abundant pages: scientifique publications, reviews and reports, experiment logs, patents, letters (a considerable number) and private communications, manuscripts and personal notes, press articles, photos and so forth.
- [0014] The trail revealed that under very subtle and precise methodological conditions, the therapeutic effects of electromagnetic fields are conclusive, diverse and varied, and have no harmless side effects.
- [0015] The results of the biological experiments undertaken, in particular by the following biologists, doctors, vets or physicists (F. BERLUREAU, M. FOURNIER, J. BIRABEN, G. DELMON, M. R. RIVIÈRE, M. G UÈRIN, R. COURRIER, A. COLONGE, E. J. AMBROSE, R. and A. N. PAUTRIZEL, P. CHATEAUREYNAUD, G. and G. MAYER, A. LWOFF, S. AVRAMEAS, I. CHOUROULINKOV, A. J. BERTEAUD, A. M. BOTTREAU, P. MATTERN, A. CAPBERN, T. BALTZ, M. DALLOCHIO, R. CROCKETT, R. COURTY, G. DUBOURG), over a period of years on animals are spectacular (see Bibliography concerning published works).
- [0016] Antoine Prioré was the only expert-operator of his own instruments; his collaborators (scientists, biologists, etc) were only there to reap the effects (biological results) of his “Effect.” This form of “mutual consent” would lead to a foreseeable but fatal result: he died without divulging the secret of the workings of his machine to those close to him.
- [0017] Our job was to work at revealing the secret. On the one hand to piece together the mental processes behind the work of this researcher and on the other, to find out the significance and the limits of his remarkable contribution by sorting out the main components: The Prioré machine, The Prioré Effect and The Prioré Therapeutic Effects. Sort them out in order to grasp them better and to subject them to hypotheses which were theoretically and clinically founded.
- [0018] In conclusion, it turns out that even with Prioré’s machines in their final version, it seemed as if the rays just sprang out of a black box whose physical parameters seemed to be barely mastered which could at any time compromise all attempts at optimising the long awaited effects.
- [0019] On the other hand, our hypotheses, compensating for these shortcomings, have enabled us with current techniques to design a variety of instruments, as varied as there are applications, which can be adjusted according to the various clinical requirements. The project which deals with the treatment of infantile autism—in its psychosomatic globality—will be an eloquent illustration.
- [0020] The present invention thus concerns a biophysicoclinical process which consists in producing and overlaying in a single volume various electromagnetic fields each of which has quite specific characteristics. The simultaneous association of these fields produces biological effects on a living organism exposed in the volume in vivo, both in animals and in humans. These biological effects, in addition to contributing to obtaining a biological substance, can be used for diagnostic, preventive and therapeutic purposes when used as part of a global psychosomatic clinical approach.
- [0021] The present document in respect of taking out a patent originates from the full and final version of our paper which details the theoretical, clinical and methodological base for a global clinical approach, signified here by the biophysicoclinical process that is the object of the present invention. This paper and the Prioré File will both be duly published.

PRIOR ART

Previous Work which Inspired Us.

- [0022] Results of Biological Experiments on this Subject.
- [0023] The effects of electromagnetic fields on living organisms has been an on-going theme of research. A great majority of these studies has been concerned with the study of eventual harmful effects of electromagnetic fields on organisms. As for ourselves, we became interested in the therapeutic effects of electromagnetic fields. The work of Antoine PRIORE and his collaborators in this field is especially remarkable. This work showed, in particular, that the simultaneous association of particular electromagnetic fields enables significant stimulation, in other words intensifying, of the in vivo immune system, both specific and non specific, in animals subjected to these fields. The healing effects which followed, in the case of a number of diseases, were observed.
- [0024] To this effect, a number of pathogenic agents were used: grafted tumours—T8 epithelioma, lymphosarcomas LS1, LS2 and 347 (lymphoblastic), fibrosarcoma Sal—, tumours induced by benzopyrene, parasites—Trypanosoma equiperdum, Trypanosoma gambiense, Plasmodium berghei—amongst others. Most of these agents are particularly noted for their great virulence [PAUTRIZEL; RIVIÈRE]; as far as the T8 tumour, in particular, is concerned, Messrs RIVIÈRE and GUÉRIN emphasized that until then no means of chemistry or physics (X rays, for example) had been able to overcome this particular type of tumour [GRAILLE, 1984].
- [0025] All the control animals not exposed to these electromagnetic fields died within a few days or weeks according to the species and the disease administered.
- [0026] However, animals exposed to these fields saw the number of blood parasites decrease in the case of parasitosis; for others, tumour formations declined—sometimes significantly—as did metastases, in the case of cancers. When the right conditions were combined (parametres of physics and length of exposure), 90% to 100% of the animals exposed were cured. These animals then presented a phenomenon of therapeutic facilitation: some completely resistant to the re-administration of the pathogen which they had previously got rid of; others, to get rid of the re-administered pathogen, required a number of exposure sessions, but of significantly reduced length in comparison with the initial length which had enabled the first cure. The cured animals thus acquired a sometimes

significantly increased state of immunity against the pathogen initially administered. These observations were confirmed by biological tests; in particular, the rates of antibodies specific to certain antigen structures of the pathogen reached considerable proportions. These effects were particularly confirmed when the animal was sufficiently mature, and its immune system was not seriously impaired by immunodepressors or X-rays.

- [0027] The principal model which permitted these results at a biological level was *Trypanosoma equiperdum*, quite familiar to Professor R. PAUTRIZEL. But what in our eyes makes these effects even more significant, both on the therapeutic level and as far as the prospects for research that they open up go, is the fact that (a) the electromagnetic fields did not directly destroy the parasite and (b) this parasite, presenting the phenomenon of an antigen variation, always escaped the immune defenses of normal animals (those not treated) used for these experiments (mice, rats, rabbits).
- [0028] In addition, the stimulation of immune defenses by these electromagnetic fields has been shown in other biological models (LS1, 347, Sal, T. gambiense, antibodies anti-peroxidase, in particular).
- [0029] What is fundamental is that the cures by these electromagnetic fields had absolutely no side effects. The animals cured and the normal animals who were exposed were in perfect health and reproduced normally.
- [0030] A hypocholesterolemiant effect was also noted [PAUTRIZEL, 1972/01].
- [0031] Experiments with skin grafts (allografts and isografts) showed that these electromagnetic fields accentuate the ability of the organism to recognize "self" and "non self," as well as accelerate healing [CHATEAUREYNAUD, 1971, 1974].
- [0032] In different circumstances and with a number of pathological models, a great deal of animal experiments were undertaken with different machines whose operation was assumed by A. PRIORE alone. These experiments were undertaken with the required rigour and reliability. The same experiments were repeated a number of times under the same conditions, always with unexposed controls, and always confirmed the same conclusive results. Thousands of mice and rats and numerous rabbits were used for this purpose. The biological and histological tests confirmed the clinical observations (observations of the external state of the animal).
- [0033] Not only did these experiments meet the usual requirements, but given the controversy surrounding this research [GRAILLE, 1984], the researchers were obliged to submit to other types of requirements, which they did: verification experiment by R. COURRIER (Perpetual Secretary of the Academy of Science) in 1965; verification committee in 1969 with Bailif present and which included both university academics and non academics; University of Bordeaux II Thesis Committee in 1977.
- [0034] For ethical reasons, A. PRIORE always sought the consent of the accepted medical spheres to start clinical explorations in humans. However, bowing to the disarray of patients and their families, backed up by their GP, and based on the undeniable results of his "Effect," he did finally conduct some very encouraging therapeutic investigations in patients with advanced stages of cancer. [DUBOURG, 1979].
- [0035] The Principal Conclusions that we Have Drawn.
- [0036] In general, the experiments show that the results obtained depend, amongst other things, on a certain number of parameters of physics. The biological results are of a different nature according to the type of illness or disease, the biological and/or clinical tests carried out: the time it took for parasites in the blood to disappear, the number of animals cured, the rate of antibodies, the speed of subsidence of tumours, and so forth. In what follows, we will assert that one physical configuration of parameters of physics presents greater biological effectiveness than a second configuration, with the same biological results obtained but with a total length of exposure lower than in the second configuration. We also mention therapeutic effectiveness in order to underline the fact that the biological effects can lead to cures.
- [0037] In addition, in the case of a given disease or illness, the daily and total lengths of exposure to electromagnetic fields are determined according to the state of advancement of the illness or disease when therapy begins.
- [0038] We define a parameter ξ , called biological effectiveness, which is purely formal in nature, since it represents the various quantifiable biological and clinical data. Prior Instruments Used to Carry Out these Experiments, their Significance and their Limits.
- [0039] The Technical State of the Prior Art in Question (Significance)
- [0040] Two patents [PRIORE, 1963, 1966] describe the technicalities, often with details, constituting the two machines made by A. PRIORE. Later on, A. PRIORE built and supervised the construction of two other machines, i.e. a total of four machines.
- [0041] On the technical level, all the machines are, in the main, based on a vertical, cylindrical, glass enclosure, containing a low pressure gas. This gas becomes ionized under the influence of various continuous and high frequency electromagnetic fields. The applicators of the high frequency fields were located in the upper part of the enclosure. At this level of the enclosure a cylinder, with paddles acting as anodes and which turned around the vertical axis of the enclosure, was to be found; an annular cathode heated by a filament was placed in the middle part of the enclosure. The high frequency fields of metric wave lengths were produced by high power generators (1 to several KW); a centimetric wave was produced by a magnetron.

- [0042] The magnetic field coils were placed along the cylinder. The coil at the lower base of the enclosure was a voluminous element and required high capacity electric power to function.
- [0043] The animals submitted to treatment were placed on a table under the enclosure, around its axis.
- [0044] The Technical Problem Posed: Nature and Context (Limits).
- [0045] As far as A. PRIORE was concerned, the overlap between instruments and biological experiments was essential: it was the biological experiments and their results that enabled him to break in and refine the parameters of his physics and it was the machines—through their successive transformations—which enabled him to optimize the therapeutic effects.
- [0046] A. PRIORE died **1983** without having divulged the functioning of his machines to his collaborators. From that point, the problem became immediate: how to make the machines work, or how to reconstruct them in order to improve them, or how to build a new machine which would produce the same effects as PRIORE's machines. To this day, no publication, national or international, has offered any conclusive answers to these questions.
- [0047] In the presence of PRIORE, a number of physicists undertook an analysis of the third machine that he had built and published their observations [BERTEAUD, 1971]. The authors indicate that at the level of the exposure table, they noted a magnetic field of 1 KGs with a pulsed wave of 9.4 GHz, and amplitude modulated at 17 MHz; the power of this wave, as a function of distance in relation to the axis, was between 0 and 700 μW (values obtained with a 64 cm^2 horn antenna). Unfortunately, this data did not permit the authors of the analysis to reproduce, with devices they themselves had made, the beneficial biological effects that were characteristic of PRIORE's machines [GRAILLE, 1984].
- [0048] Although the two patents that PRIORE did register enable one to begin to grasp his original process, the descriptions of the characteristics of the rays coming out of these machines are vague or even inaccurate: the term “complex rays” is used; electrically charged particles are said to be emitted in the direction of the subject to be treated, which in reality cannot be the case, in particular because of the walls of the enclosure. They do not mention either any potential procedures for adjusting the various devices which made up the machine, adjustments which only PRIORE himself knew.
- [0049] It can be seen that, although the therapeutic effects of this “Effet ” are divisible and can be shared, because they have been validated and confirmed, the “Effect” itself remains illusive. This strange paradox means that failing being able to walk in the visible footsteps of the discovery, it needs to be reinvented with new leads and down new tracks: in order to be able to decipher it better, to throw new light on it, to communicate it and thus optimise its full significance.
- [0050] Our in-depth analysis of all this work in its entirety (publications, notes, manuscripts, etc.) has enabled us to grasp the characteristics which are specific to the rays of PRIORE's machine, rays which we believe are electromagnetic in nature. This new concept should enable new methods of technical construction which should be able to be developed industrially. These methods of construction, technically easier to implement, will be more energy-efficient. Thus the production of various types of instruments will be easier.
- The Biophysicoclinical Process, Object of the Present Invention
- [0051] Abbreviations: EM: electromagnetic; VHF: Very High Frequency; VE: volume of exposure.
- [0052] Legends for Figures:
- [0053] FIG. 1: Basic diagram representing process.
- [0054] FIG. 2: Diagram representing one implementation of the process as a whole, open structure type.
- [0055] FIG. 3: Diagram representing exterior view of one implementation of the process as a whole, closed type structure.
- [0056] FIG. 4: Diagram representing interior view in vertical section of closed structure; profile drawings are indicated in FIG. 5 (broken line AA').
- [0057] FIG. 5: Basic diagram representing interior view in horizontal section of closed structure showing layout of parts constituting the magnetic circuits.
- [0058] FIG. 6: Device enabling current variation in electromagnetic coil.
- [0059] FIG. 7: Wiring diagram of device enabling production of VHF EM field.
- [0060] FIG. 8: Wiring diagram of device, sub system of device in FIG. 7, enabling polarization variation of VHF EM field.
- [0061] FIG. 1 gives a diagrammatic view of the process. The process consists in producing, using appropriate means (3), (10) and (20), and overlaying in the same volume, a magnetic field and one or several very high frequency {VHF} electromagnetic fields which have particular specifications. It is in this volume, called volume of exposure {VE}, that the subject to be treated (1) (animal or human being) is placed.
- [0062] The VE (2) may be less than the total volume of the subject to be treated, in which case a part only of the subject is submitted to the simultaneous action of these fields. The VE (2') may be greater than the total volume of the subject to be treated, in which case the whole subject is entirely contained in the VE. The VE may be totally or partially delimited, or not, by material means. In addition to the physical specifications of the magnetic field and of the VHF EM fields, the biological and therapeutic effectiveness of this set of fields is all the greater if the VE is sufficiently large enough to contain all of the subject. On the other hand,

a VE smaller than the volume of the subject means that the technical means implemented can be reduced and can be used in cases where a lesser biological effectiveness is sufficient, for example in pathological states which are more or less pronounced.

- [0063] Continuing with the presentation, the physical parameters which characterize the process have values in certain ranges; these values must be chosen so as to optimize the biological or therapeutic effects, choices which depend on the biological model to be used or the illnesses and disorders to be treated. The range of values announced are not exhaustive, but constitute typical values with which the effects can be obtained.
- [0064] The magnetic field in the VE may be uniform in direction. For example, a magnetic field supplied by a magnet used in nuclear magnetic resonance imaging is suitable. In this case, the field is also of uniform intensity.
- [0065] However, the magnetic field is not necessarily uniform, which significantly simplifies the technical implementation of the means used to produce said field. The direction of the magnetic field may vary in the VE according to some law of spatial coordinates or other; in this case, the intensity of the field will also vary since it obeys the principle of preserving the state of flux of the magnetic induction vector B_0 :

$$\text{div} B_0 = 0$$

It should be remembered that in the air and in biological environments, the magnetic field vector H_0 and the magnetic induction vector B_0 are bound in very close approximation by the relation $B_0 = \mu_0 H_0$, the constant μ_0 being the magnetic permeability of the vacuum. However, to obtain good biological effectiveness, the configuration of the magnetic field in the VE should be preferably chosen so that the field is spread as wide as possible over the entire volume of the subject, and with a sufficiently high mean intensity in the volume of the subject. In other words, a higher intensity over the whole of the subject means that similar results can be obtained with shorter exposure times than with lower intensity and the field spread over only one part of the subject, and consequently a reduced VE.

- [0066] The intensity of the magnetic field can be constant in time: the field is static.
- [0067] The intensity of the magnetic field can also vary in terms of time. During this variation, the orientation of the field (i.e. the sense of a given direction) in any point of the VE can remain the same (unipolar) or be reversed (bipolar). The variation of the intensity in terms of time can be useful in the case where biological effectiveness turns out to not be simply proportionate to the intensity of the magnetic field, i.e. the differential in biological effectiveness in relation to the intensity of the field, $d\xi/dB_0$, is all the greater if the intensity is greater. Thus maximum intensity of the field can be increased in relation to a static field—at the level of the peaks of the function describing temporal variation—while maintaining power consumption identical to that required to create the static field with an electromagnet. The function describing temporal variation of intensity is preferably periodic, and its frequency spectrum is typically between 1 Hz and several tens of Hz.
- [0068] Typically, the minimum value of mean intensity of magnetic induction in the VE—constant for a static field or peak in the case of variation—is in the region of 0.05 Tesla. As to maximum intensity, it is only limited by the technical means for implementation; values of 1 T or more may be necessary, in particular to overcome certain serious disorders or illnesses.
- [0069] The magnetic field can be obtained in various ways:
- one or several electromagnets consisting of electric conductor coils with suitable means of cooling;
 - a superconductor magnet consisting of a superconductor coil with associated cryogenic means;
 - one or several magnets consisting of blocks of materials presenting a permanent magnetic polarization, associated in a magnetic circuit if required, and this whatever the dimensions of the VE.

- [0073] FIG. 2 is a basic diagram showing one example of the process as a whole. It is supplied as an indication in the full knowledge that other forms and layouts of the constituent elements can be envisaged without limiting the significance of the invention.
- [0074] If an electromagnet is used, the use of magnetic materials forming a magnetic circuit (4) will increase the intensity of the magnetic field by a given intensity of electric current in the coils (3), the VE being at the level of the gap between the two field poles (5); of course, to get the most out of the enlargement of the field, in relation to the field obtained with the same coils but without a magnetic circuit, the magnetic circuit must not be saturated.
- [0075] The principle of an electronic device to vary the intensity of electric current in the coil (3) of an electromagnet is indicated in FIG. 6. This device is organised around a bridge of four thyristors which means that the uptake times of the current in the coil are quicker than power switching (A2) alone (using the switch (Cm2)) and ensures that magnetic energy stored in the coil (3) is recovered in the capacitor (C) at each cycle; the magnetic field created is unipolar. This circuit means that polarized capacitors (e.g. electrochemical) can be used to advantage for (C), which usually have high capacity with limited congestion.
- [0076] The timing diagram is as follows. To begin with all the thyristors are blocked and the switches open. Switch (Cm1) is closed and power supply (A1) charges the capacitor (C) through the resistance (R1). When the capacitor is charged to the desired voltage, the switch (Cm1) is opened. Switching pulses are then applied to the thyristor triggers (Th1) and (Th2) which renders them conductive and discharges the capacitor (C) into the coil (3); at the same time, the switch (Cm2) is

closed, the function of the diode (D2) being to prevent a current in (A2) while the capacitor (C) is discharging. The rise in current in the coil practically follows a sinusoidal arc (apart from some loss due to conductivity). When the top of the sinusoidal arc is reached, the capacitor (C) being practically discharged, the thyristors (Th1) and (Th2) are blocked because of the voltage due to power supply (A2) which reverses the polarisation through diode (D2). The power supply (A2) takes up the relay by supplying current to the coil. The magnetic field is thus at its maximum and maintains a plateau at this rate for a certain time. Once this time has passed, the thyristors (Th3) and (Th4) are switched to an on-state by their switch trigger and the switch (Cm2) is open. The current stored in magnetic form in the coil (3) is then returned to the capacitor (C). The decrease in current here too practically follows a sinusoidal arc. When the current is cancelled out, the thyristors (Th3) and (Th4) are blocked. The switch (Cm1) is closed so as to supply the part of the electrical charge which has been dissipated by inductive heating in the ohm resistances of the circuit, in particular those of coil (3) in the case of a conductor, during this cycle. After a certain time, the process is repeated from the beginning. A crenellated, modulated magnetic field can thus be obtained, with an adjustable cycle ratio. The time of rise and descent t of a crenellation is shown in practice by the equation $t = \frac{1}{2}\pi\sqrt{LC}$, with L being the inductive reactance of the coil (3) and C the capacitive reactance of the capacitor (C). Voltage V_C at which the capacitor (C) must be charged is given approximately by the equation $V_C = I_{\max}\sqrt{L/C}$, where I_{\max} is the intensity of current to be reached to maintain the magnetic field in the plateau phase. The time of rise and descent is therefore consequently adjustable by choosing C , and V_C is then adjusted; L is in fact fixed.

[0077] The electronic circuits not represented manage these stages of the cycle automatically and ensure that one pair of thyristors (Th1/Th2, Th3/Th4) is extinguished before another pair is opened (respectively Th3/Th4, Th1/Th2).

[0078] Safety elements can be placed on the coil (3) terminals—which in principal are very highly inductive—to avoid accidental overvoltage following a current circuit failure (A2) or that of a thyristor during the recovery phase (a spark gap with a swamping resistor, for example).

[0079] The frequency value that a VHF EM field will take corresponds to a wave length in the air in space which belongs to a decimetre or centimetre range. Therefore, for this range of values, and given the total volume of the subject to be treated, particularly where a human being is concerned, each VHF EM field is presented as an EM wave spread through the VE; this wave is emitted by an applicator acting as an antenna in the direction of the subject to be treated. The shape of the wave surface is not important: it can be flat or spherical, for example. The EM wave arriving on the subject exposed is called the incident wave and has several features which are the particularity of the present invention; it is this incident wave which, together with the magnetic field, produces the biological effects. At the interface between the subject and the medium of propagation, part of the incident wave penetrates the subject—the transmitted wave—while the other part is reflected; the transmitted wave fades as it spreads in because biological environments have complex permittivity which give rise to dielectric losses and losses through conductivity.

[0080] If several applicators are used, each applicator emits a VHF EM wave in the VE. We will indicate below the various parameters of one wave, it being understood that said parameters apply to all waves when several applicators are used. The values of the parameters may be identical for all waves, or differ, preferably in the range indicated, from one wave to another.

[0081] It should be remembered that the instant power P_S of an EM wave through an open surface S is shown by the equation:

$$P_S = \int_S (\mathbf{E} \times \mathbf{H}) \cdot \mathbf{n} dS$$

the integral bears on surface S , \mathbf{n} being the normal vector at surface dS ; P_S is expressed in W/m^2 ; \mathbf{E} (in V/m) and \mathbf{H} (in A/m) are respectively the vectors of the electric field and magnetic field of the wave. The scalar term $P = (\mathbf{E} \times \mathbf{H}) \cdot \mathbf{n}$ therefore represents the instant power per surface unit or density of instant power of the wave. The density of average power between instants t_1 et t_2 is shown in the equation:

$$P_{\text{moy}} = (t_2 - t_1)^{-1} \int_{t_1}^{t_2} P dt$$

\mathbf{E} and \mathbf{H} are linked by the equation $\mathbf{E}/\mathbf{H} = \mathbf{Z}$, where \mathbf{Z} is the wave impedance. It should be noted that \mathbf{Z} depends on the medium and the environment that the wave is propagated in: for example, impedance in unobstructed space in the air Z_0 is 377 ohms, whereas impedance at the exit or in the neighbourhood of an antenna (or other radiating element) is different from this value.

[0082] In order to describe the characteristics of an incident wave we shall start from a sinusoid EM signal—called a carrier signal—regardless of the structure in which it is propagated (guides, electronic circuits, neighbourhood of antenna, dielectric materials, unobstructed space), then we indicate the various operations which affect this carrier signal which will finally make up the incident wave applied to the subject to be treated. These operations are described mathematically and implemented using the appropriate technical devices. We define a quantity u to describe the temporal variations of this wave; t is the time variable. When, after the various operations affecting the carrier signal, u describes the incident wave, u refers indiscriminately to the module of electric field \mathbf{E} , or magnetic field \mathbf{H} in a given point, taken arbitrarily as origin of the phases.

[0083] First of all, the temporal variation of the carrier wave can be described by the equation:

$$u=A \cos(2\pi f_p t)$$

where A is the amplitude, and f_p is the frequency of the carrier signal: it is situated typically between 1 GHz and 20 GHz. This frequency band, which is also that of the incident wave, is not limited but constitutes a good compromise between, on the one hand, a value necessarily sufficiently high to obtain the biological effects and, on the other hand, a sufficient depth of penetration to reach the biological tissue in which the effects are produced.

[0084] Despite this, for these frequencies, in the case of a relatively voluminous subject, such as a human being for example, and contrary to the magnetic field, the depth of penetration of the wave transmitted does not enable the deepest parts of the body to be exposed to the wave. Therefore, in order to optimize the biological and therapeutic effects, several applicators may be placed so as to surround the subject as much as possible: the incident waves will thus cover the entire surface of the subject as far as possible. For example, in the FIG. 2 diagram, the applicators (20) are placed over and under the subject. It is preferable to employ applicators here made from non magnetic materials (copper, conductive polymers, etc.) so as not to deviate and to concentrate the magnetic field lines on the applicators. Applicators can also be placed on both sides of the subject, coupled with the field poles (5) delimiting the magnetic head gap from the magnetic circuit; the applicators should preferably be flat so as to not enlarge the magnetic head gap. Applicators (20) placed under the subject may be covered with soft materials to ensure comfort; in this case, the incident wave is propagated in an environment presenting a wave impedance of unobstructed space equal to $Z_0/\sqrt{\epsilon_r}$, where ϵ_r is the relative dielectric constant of the materials chosen (having preferably little or no dielectric loss), relative permeability μ_r being supposed to be equal to the unit.

[0085] As for the magnetic field, the biological effectiveness of the process is an increasing function of the density of power of the incident wave. A possible non linear response of biological effectiveness in terms of the density of power of the incident wave (i.e. the derivative $d\xi/dP$ increases with P) may lead to modulating the amplitude of this wave. The time function of the wave is then expressed as:

$$u=AU(t)\cos(2\pi f_p t)$$

[0086] $U(t)$ is the function of amplitude modulation and has terminals $|U(t)| \leq 1$. $U(t)$ results indifferently from an amplitude modulation with or without carrier signal. In the case of an amplitude modulation with carrier signal, $U(t)$ varies in terms of time between $1-m$ and 1 , m being a positive constant between 0 and 1 and defines the modulation rate. A modulation rate equal to 1 should be chosen by preference (a modulation rate equal to 0 corresponds to the borderline case where the signal is not modulated). In the case of an amplitude modulation without carrier signal, $U(t)$ is restricted to between -1 and $+1$ and the average value of $U(t)$ is zero. Function $U(t)$ is preferably periodic and its spectrum is typically between 1 KHz and 1 Mhz, apart from the line at 0 Hz in the case of a modulation with carrier signal. A good example consists in producing VHF wave trains with a high cyclical ratio; between each wave train, the amplitude is cancelled out. For example, with a frequency of 10 GHz, the duration of each wave train, which is almost rectangular in shape, is 1 μs , with a rise and descent time of $\sim 0,25 \mu s$, and the time between two successive wave trains is 1 ms; the cyclical ratio is therefore 1000, and the density of peak power of one wave train is 1000 times greater than the average power density. Other forms of wave trains can be envisaged: Gaussian, sinusoid arc, symmetrical or asymmetrical, for example. The relative phase between two successive wave trains can adopt any value, in particular when the cyclical ratios are high.

[0087] Whether it is amplitude modulated or not, the incident signal arriving on the subject does not necessarily produce an increase in temperature of body tissue. Indeed, one of the features of the process subject of the present invention is that the biological effects produced are not due to an increase in temperature of the whole or part of the subject exposed to these fields, as is sought after with certain physiotherapeutic methods, such as radio frequency diathermy or localized diathermy, in a limited part of the body by focalising microwaves on it with the object of destroying directly certain diseased tissue by heating (cancers in particular). Very good results, in particular in stimulation of the immune system, have been obtained with average power densities in the order of 10 $\mu W/cm^2$ in unobstructed space, and wave trains with a cyclical ratio of 1000; an average power density of this level cannot produce any appreciable heating of biological tissue. Average power density levels at which an appreciable increase in temperature is noted, either by instruments or by the patient himself, where human beings are concerned, should be considered as maximum levels which should not be exceeded.

[0088] Another essential feature of the process is that the incident wave presents an angle modulation: frequency modulation or phase modulation. Let us take the case of a frequency modulation which affects the carrier signal:

$$u=A \cos [2\pi(f_p +\Delta f(t))t]$$

$\Delta f(t)$ has a terminal function, proportional to the modulating signal $v_m(t)$:

$$\Delta f(t)=\alpha v_m(t)$$

α is a constant. This modulated frequency carrier signal can also be considered to be phase modulated:

$$u=A \cos [2\pi f_p t+\Delta\varphi(t)]$$

with [FONTOLLIET, 1996]

$$\Delta\varphi(t)=2\alpha_0 \int v_m(t)dt$$

In the case of a carrier signal with sinusoidal frequency modulation we have:

$$\Delta f(t)=\Delta f \cos(2\pi f_m \delta t)$$

the constant Δf being the maximum frequency deviation on either side of the carrier signal; $f_m \delta$ is the frequency of the modulating signal. In this case, the equivalent phase modulation is also sinusoidal:

$$\Delta\varphi(t)=\Delta\varphi \sin(2\pi f_m \delta t)$$

$\Delta\varphi$ is the maximum phase deviation. The modulation index is thus defined as δ :

$$\delta=\Delta f/f_m \delta=\Delta\varphi$$

The biological effectiveness ξ of the process is a function of the modulation index. When δ is nil, the biological effectiveness of the process is nil or almost nil. Typically, the minimum value of δ which enables tangible biological effects to be obtained is in the order of $\pi/4$.

[0089] It is preferable that the frequency of angle modulation be situated between 10 and 300 MHz. This frequency band is not restrictive but enables, (a) to rapidly modulate the carrier wave frequency and, (b) to technically reach modulation indices sufficiently high in relation to the band frequency chosen for the carrier signal; these two conditions—sufficiently high modulation frequency and modulation index—are necessary to obtain biological effects. For example, with $f_m \delta=50$ MHz et $\delta=\pi/2$, we obtain $\Delta f \approx 78$ MHz; this deviation of frequency should be compared with the carrier signal frequency ($f_p=10$ GHz, for example).

[0090] Other forms of modulation signal can be chosen according to the biological effectiveness they permit. They should preferably be periodic with a frequency spectrum typically between 10 and 300 MHz.

[0091] A further feature of the process of the present invention is that the incident wave undergoes a continual change in state of polarization in terms of time. All along the interface between propagating medium/exposed subject, a given state of polarization of the incident signal gives way in time, either continuous or in skips, to another state of polarization. Biological effectiveness is improved in comparison with a fixed, rectilinear polarization, when the state of polarization undergoes these variations.

[0092] We can define in general terms the state of polarization of a wave if we consider that it is the result of the superimposition, mathematical or physical, of two waves of the same frequency which have their wave vectors merged, each with the following rectilinear polarization, respectively, axes X and Y need to be perpendicular to each other [BORN, 1964]; at a given point, the magnetic field component—arbitrarily E or H—of each wave has the value (complex notation):

$$u_x=p_x \cdot u$$

$$u_y=p_y \cdot e^{j\theta} \cdot u$$

p_x et p_y are the amplitudes of the two waves and have real values; θ is the phase shift between the two waves; u represents, as before, the carrier signal modulated in amplitude and in angle, and it is expressed here implicitly in complex form. For a resulting wave spreading in unobstructed space, the vector wave is perpendicular to the XY plane. Thus, according to values p_x , p_y and θ , we obtain different states of polarization. By varying these parameters in terms of time, the state of polarization varies; for this reason we call $p_x(t)$, $p_y(t)$ and $\theta(t)$, functions of modulation of polarization. In what follows, we shall consider that:

$$p_x^2(t)+p_y^2(t)=\text{constant}$$

for if this is not the case, the resulting wave is affected in amplitude by $p_x(t)$, $p_y(t)$; in practice, amplitude modulation is achieved by a device expressly for this purpose. We use the constant equal to 1 to signify that the VHF EM energy is not reduced—or practically not—by the device which creates the variation in state of polarization.

[0093] Different variations in the state of polarization can be envisaged as part of the present invention.

[0094] For example, for $\theta=\text{constant}=0$, the resulting polarization is rectilinear. The angle of polarization ψ , between axis X and the direction of polarization, is given by the time function:

$$\psi(t)=2\arctg[p_y(t)/(p_x(t)+1)]$$

since $p_x^2(t)+p_y^2(t)=1$; ψ can vary in continuous fashion, or take discrete values, depending on a periodic or random evolution. For $\psi(t)$ it is preferable to choose a function with a uniform or almost uniform probability density extending between $-\pi$ et π (or 0 and π). Thus, typically, we take:

$$p_x(t) = \cos 2\pi f_{mp} t$$

$$p_y(t) = \sin 2\pi f_{mp} t$$

for a continuous and periodic variation of ψ ; f_{mp} is the modulation frequency of the state of polarization and is typically between 1 Hz et 100 Hz.

- [0095] If we opt for discrete states of polarization, the modulation functions of polarization are discrete. For example, let us take the case where $\theta=0$ and take successively for $\{p_x, p_y\}$, for identical durations, the following discrete value pairs forming a cycle: $\{1,0\}$, $\{1/\sqrt{2}, 1/\sqrt{2}\}$, $\{0,1\}$, $\{-1/\sqrt{2}, 1/\sqrt{2}\}$, $\{-1,0\}$, $\{-1/\sqrt{2}, -1/\sqrt{2}\}$, $\{0,-1\}$, $\{1/\sqrt{2}, -1/\sqrt{2}\}$, $\{1,0\}$. Thus, during a cycle, ψ varies between 0 and π by taking the discrete values separated by 45° ; $\psi(t)$ has a uniform probability density. The duration of a cycle is typically between 0.01 s and 1 s.
- [0096] Another example of modulation of the state of polarization consists in taking $\theta=\text{constant}=\pm\pi/2$ and make $p_x(t)$ and $p_y(t)$ vary at frequency f_{mp} . Thus, at the instants where $|p_x(t)|=1$ and at the instants where $|p_y(t)|=1$, polarization is rectilinear following respectively axis X and axis Y. When $|p_x(t)|=|p_y(t)|=1/\sqrt{2}$, polarization is circular and turns in one direction or the other—right or left—following the sign of ratio $p_y(t)/p_x(t)$. For the other values of $p_x(t)$ et $p_y(t)$, polarization is elliptical, right or left, and the two principal axes of the ellipse remain merged respectively with X and Y. In this case, ψ is therefore always nil.
- [0097] This variation in the state of polarization can also be obtained by maintaining $p_x=p_y=1/\sqrt{2}$ fixed, and varying θ between $-\pi$ et $+\pi$, with the difference that ψ remains equal to $\pm\pi/4$; the sign ψ depends on the principle axis chosen as axis of polarization.
- [0098] Other variants of the variation of state polarization can be envisaged as, for example, varying the direction of the long axis of an elliptical polarization where the elliptical ratio remains constant, with a fixed direction, while still remaining within the present process.
- [0099] The increase in biological effectiveness due to variation in the state of polarization, in relation to a case of fixed rectilinear polarization, may arise from the fact that, at the biochemical level, the molecules causing the biological effects are oriented in random fashion in the body and that each molecule, in order to be more effectively triggered, requires that the direction of polarization in particular, be close to an optimum value. Thus a greater number of molecules are, statistically, triggered. In addition, variation in the state of polarization enables the interference nodes caused by the various reflections which the incident wave undergoes to be displaced; the subject is thus exposed uniformly—on average during the time—to the incident wave over the entire surface contained in the VE.
- [0100] In FIG. 7 we provide, in the form of building blocks, the wiring diagram of a device enabling production of the VHF EM incident wave, object of the process of the present invention. An oscillator (11), producing a sinusoidal signal at a given frequency for the carrier signal, is followed by an amplitude modulator (12), which itself is followed by an angle modulator—phase or frequency—(13). The signal modulated in amplitude and in angle which results is eventually amplified by an amplifier (14) in order to obtain the density of power desired at the level of the subject to be treated. The components at the exit of the modulators—in particular the amplifier (14), when it is used, and the applicator (20)—must be chosen so as to let the spectral components which result from the modulations pass. The spectral components resulting from the angle modulation spread in theory through an infinite width around the frequency of the carrier signal, but we limit this width, as is done in radio broadcasting, to a bandwidth containing ~98% of the power of the incident wave which would be obtained if the bandwidth were of an infinite width.
- [0101] In general, electronic assemblies to make building blocks can use either semi-conductor components (transistors, diodes Varicap, PIN, etc. . . .) or electronic tubes (travelling wave tubes {TWT}, magnetrons, klystrons, etc.).
- [0102] In addition, the various functional blocks in FIG. 7 can be laid out differently depending on the technical means chosen. We are giving below a few variations, for information only, whilst adding that this information can in no way limit the significance of the present invention. In the case of an amplitude modulation in the form of virtually rectangular wave trains, a magnetron oscillator can be used with a power voltage proportionate to the modulation signal, followed by a second magnetron mounted with reactive impedance to execute the angle modulation; the power of the oscillator magnetron will then be sufficient and an amplifier is not necessary. Or again, a TWT amplifier may be controlled by the amplitude modulator signal by means of a grid controlling the electronic beam: the amplitude modulator is thus merged with the amplifier, the carrier signal being angle modulated before being injected into the VHF entrance of the TWT. Or again, the angle modulator and the VHF oscillator may be merged: reactive element acting on the resonant frequency of a cavity in which an oscillator element is placed; or a magnetron with crossed beams.
- [0103] The variation in the state of polarization is insured by the applicator (20). The applicator consists, in general, of a polarization modulator (22), controlled by one or several modulation signals produced by the generator (23), followed by one or several radiating elements (21). The polarization modulator may be situated in proximity to the radiating elements, integrated into their mechanical structure, or sited in a separate device.
- [0104] A simple example of the implementation of such a device consists in using a horn antenna in rectangular guide that is turned around its emission axis at a constant angular speed. The passage through the horn of the modulated VHF EM signal produced by the generator (10), is effected using a rotating rod

transition: the resulting polarization is rectilinear and its direction turns around the wave propagation axis; we have $-\pi \leq \psi \leq \pi$, and $\psi(t)$ is a function with a uniform probability density.

- [0105] An other example of implementation is to use two helicoidal antenna, coiled respectively clockwise and anticlockwise, into which are injected by turns with the assistance of a switching device, VHF EM excitation; the result is the emission of a VHF EM wave which alternately presents polarization to the right and to the left, i.e. two states of discrete polarization.
- [0106] A network type antenna can also be implemented having several radiating elements such as represented in the wiring diagram in FIG. 8. The network is divided into two sub-networks of radiating elements: the elements of the first sub-network (21') emit a rectilinear polarized wave along axis X, the elements of the second sub-network (21'') emit a rectilinear polarised wave along axis Y, X and Y being orthogonal; these two waves have their wave vectors merged or practically merged. The radiating elements can, for example, consist of slits made in the wave guides, slits all on a plane parallel to the XY plane. Into each of the two sub-networks, a VHF EM wave produced by the generator (10) is injected and then respectively modulated in amplitude by an amplitude modulator (24') (24''); each amplitude modulator is controlled respectively by a polarization modulation signal $p_x(t)$ and $p_y(t)$, produced by the generator (23); the two waves are phase shifted between each other by the phase modulator or phase shifter (26), which phase modulator or shifter is controlled by the polarization modulation signal $\theta(t)$.
- [0107] In addition to electromechanical means of modulation, elements based on semiconductors can also be used in the modulators such as, for example, PIN diodes for amplitude modulators (24')(24'') and Varicap diodes for the phase shifter (26). In this case, it would be well advised to place an amplifier, respectively (25') and (25''), in each of the injection routes in the sub-networks, for these semi-conductors have limited admissible power; thus the modulated VHF generator (10) will have at the most a low power amplifier (14). In the case of modulation with discrete polarization, these semi-conductors are controlled by signals taking discrete values.
- [0108] In the case of the use of several applicators each emitting a VHF EM wave, a single generator (10) need be used; the amplitude, angle modulated, and if required amplified, carrier signal, is distributed more or less identically between each applicator, or directed towards each applicator one after the other in whatever order using VHF switches. Or, each applicator is excited by a dedicated generator (10); the advantage of this second layout is that each generator taken individually provides appreciably less power compared to the implementation of a single generator for several applicators.
- Prospects which the Present Invention Opens Up: at the Level of Applications (Somatic and Psychosomatic) and at the Research Level.
- [0109] 1—Therapeutic: infectious diseases, cancers, vascular illnesses, regeneration of injured tissue and in general illnesses where the effects on the immune system would be beneficial. Tissue regeneration in particular, in the case of burnt skin tissue: autografts carried out on the injured part of the subject, said subject then being exposed to the process, object of the present invention and which has the effect of accelerating adherence, development and healing of grafted tissue.
- [0110] 2—Preventive: activates the immune system even if there is no pathogen, antigenic; the immune system thus becomes better equipped to react against a pathogen appearing later on. Acts as an immunostimulant during vaccination without producing the side effects of certain chemical immunostimulants.
- [0111] 3—Diagnostic: enables, for example, determination of the state of immune response to an antigen test.
- [0112] 4—Biotechnological: use of the process, object of the present invention, within a process susceptible to industrial application whereby a biological substance is obtained, in particular, immunoserums, polyclonal antibodies with a defined specificity, or monoclonal antibodies reacting specifically with a given antigen (molecule, infectious agent, attenuated microorganism, cell, etc.).
- [0113] To do this, a given antigen is administered to a live subject; this subject is exposed to the magnetic and electromagnetic fields to stimulate immune defenses which then produce antibodies; liquids are taken from the subject with which an immunoserum is obtained by filtering; specific antibodies reacting specifically with the administered antigen are obtained after purification of said immunoserum.
- [0114] Monoclonal antibodies are obtained in the following manner: a given antigen is administered to a living subject; this subject is exposed to the magnetic and electromagnetic fields to stimulate immune defenses which will then contain the lymphocytes which produce antibodies; tissue samples containing lymphocytes which produce antibodies is then taken from the subject; monoclonal antibodies can be produced from the lymphocyte cells of this tissue. A cloning technique such as that of hybridomes can be used here [ROITT, 1989]: this technique consists of putting into suspension cells from tissue samples taken, to fuse these cells with the cells of the myeloma and then to select and clone the hybrid cells thus obtained which are producers of antibodies, said antibodies having the specificity required vis-a-vis the antigen.
- [0115] The antigen may be naturally present in the body and it is not therefore necessary to administer it to the living subject. In particular, it may be an antigen related to a cancer activity in the body. Thus with one of these two processes, where the phase of administration of the antigen is not implemented, antibodies specific to this antigen can be obtained.

- [0116] The advantage of the two above-mentioned processes, in relation to the usual processes whereby a biological substance is obtained, but which do not use the process, object of the present invention, is that they enable a more rapid immune response which is quantitatively higher, both in antibodies and in lymphocytes producing specific antibodies and with better antigen specificity, i.e. with a higher affinity constant of the reaction antigen-antibody. These two processes for obtaining biological substances are particularly interesting in cases where the antigen presents a low immunogenicity.
- [0117] Monoclonal antibodies, conditioned alone (derived from a single clone) or combined between them, can constitute tools for tests and immunological analyses and be used for therapeutic purposes.
- [0118] In general, there are places to treat mental disorders and places to treat illnesses and disorders of the body. Today, what is important is to develop links between the different approaches and to look at a patient as a whole.
- [0119] This is exactly what the process, object of the present invention tries to do; to permit clinical practice which can correlatively stir the various fragments—mental and physical, mind and body—to move towards a global approach. With a global approach the patient can feel that our desire is to bring him peace.
- [0120] The therapeutic effects inherent to this process equate to a vital and revitalising energy which will enable the patient to recreate—in time—his own vitality. He can see the energy coming from the outside give way to the energy coming from inside. If this particular transfer of energy at a different level is possible, it is because the rays work like a catalyser, but do not alter the psychosomatic and somatic integrity of the patient, has no harmful side effects and does not create a dependence on any substance.
- [0121] Examples of Attainments of the Biophysicoclinical Process.
- [0122] The structure and the layout of the various elements comprising the instruments comply with clinical requirements.
- [0123] For instance, patients who are also claustrophobic would have difficulty finding themselves inside a cylinder consisting of a magnet from a nuclear magnetic resonance imager. In addition, as far as the process object of the present invention is concerned, exposure times can sometimes be relatively long (several hours a day). The design of the structure therefore needed to be open where the shape of the gap of the magnetic circuit enables the subject to be seated or lying down, and where the greater part of the volume of a subject can be exposed to the magnetic field. This instrument is a prototype of an open structure. (FIG. 2).
- [0124] The other prototype is that of a closed structure (FIGS. 3, 4, 5). Well adapted for small children, in particular autistic children taken in holistic, psychosomatic globality. It should neither close them in, nor prevent them from moving, nor remove them from the presence of the adults in their world (health professionals, family). Having a need for a receptacle-envelope which puts them together from the inside, inside, and protects them from the outside. In other words a container which, made reliable and safe in spoken terms, becomes a source for tentative containing identification enabling the child to draw unifying perceptions of himself.
- [0125] FIG. 3 shows an exterior view of this structure. FIG. 4 shows an interior view of the structure in vertical section, the basic diagrams of which are indicated in FIG. 5 by the broken line AA'. FIG. 5 shows a view of the elements making up the magnetic circuit from above and in horizontal section formed by the floor (34).
- [0126] Seen from the outside, this structure is circular in shape (30), on a vertical axis, with a diameter in the region of 2.5 m, surmounted by a translucent dome (32); the dome means that the inside of the structure can be lit by lighting placed above. Inside it consists of a central circular space of about 1 metre in diameter, situated below the dome (32), surrounded by lateral wings, numbering six, for example, each separated by vertical, radial partitions (33). Each lateral wing may have one opening (31) or one passageway (31') communicating with the outside. In general, the shape of the structure, both inside and out, is round and has no angular parts. Between two partitions (33) separating two adjacent wings a field pole (5') is placed; associated with the field pole (5') of one or other wing, at floor level (34), they form a gap; the magnetising coils (3) or the magnetic materials (according to the technical solution opted for) and the remainder of the magnetic circuit (4) are placed under the floor (34). In FIG. 4, the circular magnetic circuit enabling a magnetic field to be placed in the central space is not shown; this magnetic circuit is shown in FIG. 5 where the field poles (5 c) can be seen, at floor level, and the associated coil (3). In the case where electromagnets are used, the coil producing the magnetic field in the corresponding wing is supplied with electric current only if a child is present in the wing; monitoring is automatic, using presence sensing devices.
- [0127] The applicators (not shown) of the VHF EM fields are hidden behind the partitions (33), in the volumes (35), for example. The structure is preferably made from composite materials such as fibreglass impregnated with polymerised resin; these materials have no magnetic properties (relative permeability very close or equal to 1), present a relative permittivity in the region of 2 to 3 permitting the passage of VHF EM fields emitted by the applicators, and are resistant and have a cushioning effect in case a child should fall.
- [0128] These two prototype structures, open and closed, are each part of a pacifying global mediation approach concerning the patient as a whole.
- [0129] Looked at from the clinical point of view—infantile autism, in particular—a structure is both receptacle and envelope. Receptacle destined to receive, to contain and to channel the invisible energy (the electromagnetic fields); a protective envelope made dependable and safe in verbal terms.
- [0130] The shape and the layout of the elements which make up these structures for use with human beings are fixed by clinical practice:

subject to be treated: child, adult, whole body or part of body;
 context of use: static, play aspect;
 fields of application: diagnostic, preventive, therapeutic;
 specificity of illness and diseases to be treated: principally somatic (cancer, infections, allergies, etc.), or principally psychic trauma (autism, psychoses, etc.);
 different approaches of different practitioners: use of the structure by psychotherapists, doctors or a global health professional;
 types of indications: use of the receptacle/envelope structure alone, or its integration into a global project: the receptacle/envelope structure can be used alone without diagnostic and/or preventive designs. However, it must be associated with other types of mediation for therapeutic reasons (the paddling pool, for instance, for autistic infants).

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CLINICAL REFERENCES

- [0179] Our clinical development derives directly from our professional experience: the treatment of autistic and psychotic children.
- [0180] Over a number of years, we tried to shine new light on this therapeutic work with these children which has enabled us to hear their essential need: their search for a continuity of being in a pacified, psychomatic globality.
- [0181] This has led us to our own search for a global clinical approach.
- [0182] Doctor Pierre LAFFORGUE, psychiatrist and psychoanalyst, Head of the Psychiatric Hospital in Bordeaux, has supervised the principal stages of this search. Through his mediation, Madame Genevieve HAAG, psychiatrist and psychoanalyst in Paris, has used the clinical observations we regularly supplied to lead—in a group consisting of psychiatrists, psychologists and psychoanalysts—a thorough exploration of autism through therapeutic work in the paddling pool; our experience was enhanced by this work.
- [0183] If, in France, Madame G. HAAG's work in the field of autism is undeniably the most pertinent, that of Ms Frances TUSTIN, English psychiatrist and psychoanalyst, remains the most important reference. She came to Bordeaux a number of times and travels enormously to talk about her clinical work.
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US3773049A *	1970-11-13	1973-11-20	L Rabichev	Apparatus for the treatment of neuropsychic and somatic diseases with heat, light, sound and vhf electromagnetic radiation
US5564421A *	1991-04-04	1996-10-15	Instrumentarium Corporation	VHF applicator for magnetic resonance imaging
US6142927A *	1998-09-14	2000-11-07	Clark; James Hoyt	Method and apparatus for treatment with resonant signals
US6443883B1 *	1999-06-08	2002-09-03	Medical Bracing Systems, Ltd.	PEMF biophysical stimulation field generator device and method
Family To Family Citations				
BE632707A	1962-06-01			
FR1501984A	1966-10-03	1967-11-18	S E R E S O	Device for production of a biologically active radiation
EP0279779A1 *	1987-02-13	1988-08-24	Equilibrium S.A.	Device for the generation of biologically active magnetic and electromagnetic fields
FR2679455B1 *	1991-07-26	1998-08-28	Inst Nat Sante Rech Med	System for the internal heat treatment of a body and its usage.
EP0669843A1 *	1993-09-13	1995-09-06	Theta Electronics S.A.	Device for stimulating the natural defenses of a person or of any cellular system

* Cited by examiner, † Cited by third party

Cited By (8)



Publication number	Priority date	Publication date	Assignee	Title
WO2012018756A3 *	2010-08-02	2012-05-10	Lifewave, Inc.	Ultra wideband (uwb) baby monitors for detection of infant cardiopulmonary distress
US9002427B2	2009-03-30	2015-04-07	Lifewave Biomedical, Inc.	Apparatus and method for continuous noninvasive measurement of respiratory function and events
WO2015079439A1 *	2013-11-26	2015-06-04	Technion Research And Development Foundation Limited	Neuronal modulation
US9078582B2	2009-04-22	2015-07-14	Lifewave Biomedical, Inc.	Fetal monitoring device and methods
Family To Family Citations				
FR2842825A1 *	2002-07-29	2004-01-30	Mohamed Ayari	Preparation of mono- or poly-clonal antibodies, useful for diagnosis, specifically of Trypanosoma equiperdum, includes exposure of immunized animals to set of

				electromagnetic fields
WO2004014485A1 *	2002-07-31	2004-02-19	Igor Roman Szul	Electromagnetic wave therapy treatment method and apparatus
WO2005077979A1 *	2004-01-15	2005-08-25	Mohamed Ayari	Method for obtaining antibodies requiring the use of a set of electromagnetic fields
FR3007632A1 *	2013-06-27	2015-01-02	Iro	Method and device for improving the condition of a human patient by the interaction with an electromagnetic field within the body

* Cited by examiner, † Cited by third party, ‡ Family to family citation

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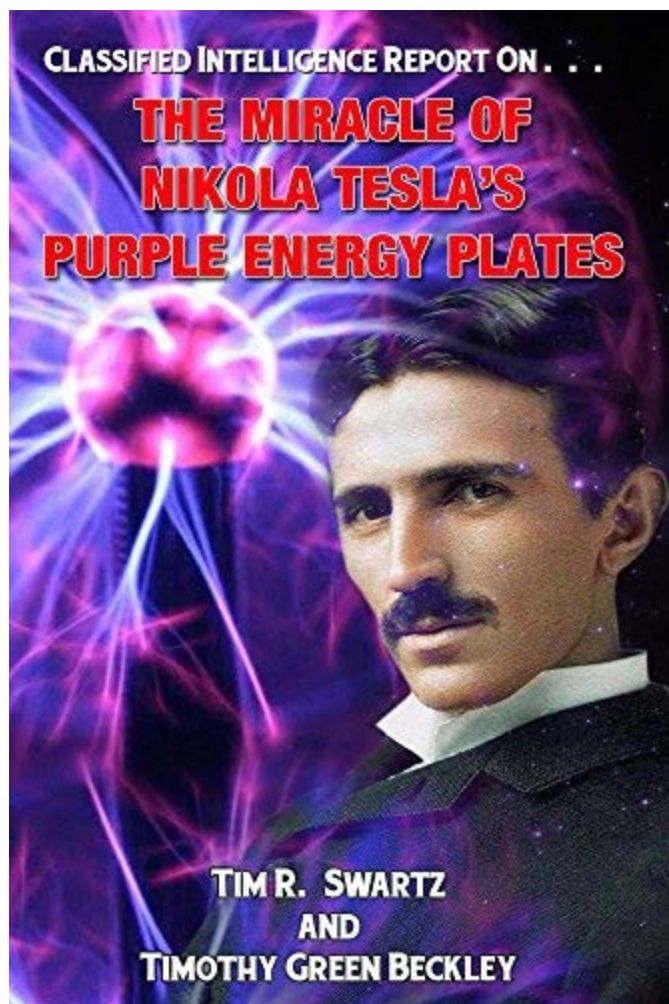
Publication	Publication Date	Title
Miropol'Sky	2001	Dynamics of internal gravity waves in the ocean
Nadeem et al.	2003	Computation of electric and magnetic stimulation in human head using the 3-D impedance method
Bassett et al.	1974	Acceleration of fracture repair by electromagnetic fields. A surgically noninvasive method
US4346715A	1982-08-31	Hyperthermia heating apparatus
US5690109A	1997-11-25	Method of destructive, noninvasive hyperpyrexia of tissues and organisms utilizing nuclear magnetic resonance
Kirson et al.	2007	Alternating electric fields arrest cell proliferation in animal tumor models and human brain tumors
US4197851A	1980-04-15	Apparatus for emitting high-frequency electromagnetic waves
Markov	2007	Expanding use of pulsed electromagnetic field therapies
US4556051A	1985-12-03	Method and apparatus for healing tissue
US20030093028A1	2003-05-15	Apparatus and method for magnetic induction of therapeutic electric fields
Que	1999	Comparison of algorithms for multileaf collimator field segmentation
US6099459A	2000-08-08	Magnetic field generating device and method of generating and applying a magnetic field for treatment of specified conditions
US5476438A	1995-12-19	Method and apparatus for neuromagnetic stimulation
US20070282156A1	2007-12-06	Apparatus For Generating Electric Current Field In The Human Body And Method For The Use Thereof
Rubik	2002	The biofield hypothesis: Its biophysical basis and role in medicine
Kolin et al.	1959	Stimulation of irritable tissues by means of an alternating magnetic field.
Habash	2007	Bioeffects and therapeutic applications of electromagnetic energy

Roth et al.	2002	A coil design for transcranial magnetic stimulation of deep brain regions
Ren et al.	1995	A novel electric design for electromagnetic stimulation-the slinky coil
Eccles	2005	A critical review of randomized controlled trials of static magnets for pain relief
Liboff	2004	Toward an electromagnetic paradigm for biology and medicine
Pilla	2006	Mechanisms and therapeutic applications of time varying and static magnetic fields
US5908444A	1999-06-01	Complex frequency pulsed electromagnetic generator and method of use
Adey	1981	Tissue interactions with nonionizing electromagnetic fields.
US5366435A	1994-11-22	Therapeutic treatment of mammals

Priority And Related Applications

Priority Applications (4)

Application	Priority date	Filing date	Title
FR0101670		2001-02-06	
FR0101670A	2001-02-06	2001-02-06	Method for obtaining a set of electromagnetic fields referred to diagnostic, preventive, therapeutic and biotechnological
FR01/01670		2001-02-06	
PCT/FR2002/000325	2001-02-06	2002-01-25	Electromagnetic set for , diagnostic, preventive, therapeutic purposes



The Miracle of Nikola Tesla's Purple Energy Plates (Kindle Edition)

by Timothy Green Beckley and Tim Swartz

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Language: English
ASIN: B07D6DGK58

[Available from Amazon, here](#)

WARNING!!! – This is NOT another book about the life of the genius Nikola Tesla. It is about a specific previously undisclosed discovery that has not received any attention in the media or by academic peer groups. It involves the development of what has become known as “Nikola Tesla’s Positive Purple Energy Plates” which when worn or carried by an individual, or placed in their close proximity (such as in a home, office or car) can have multiple positive benefits that some consider “miraculous!”

The plates are recommended as a transformational tool for Mind, Body and Spirit. If you have heard of Tesla’s purple energy plates previously and wanted to learn more about them, or if you are discovering them “by accident” for the first time (nothing is a “coincidence” in the universe), this volume will be extremely insightful.

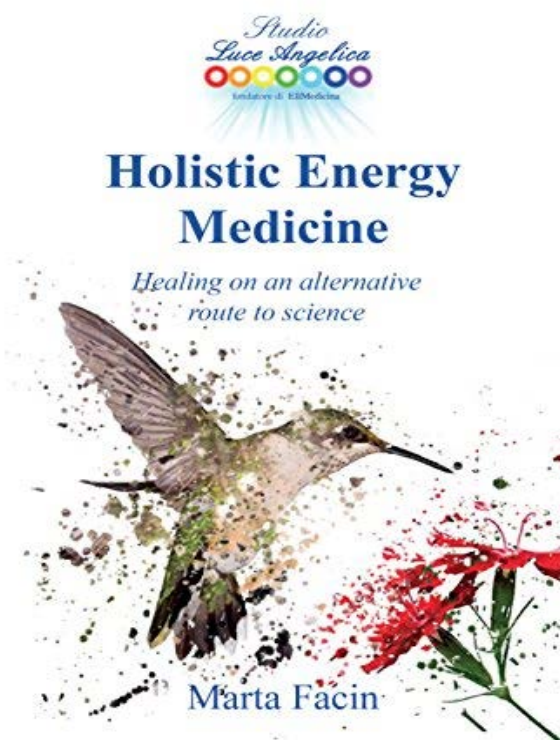
The atoms and electrons of these restructured aluminum plates – which were developed by an apprentice working alongside Tesla – have been altered so that the purple plates are in resonance, or in tune with the basic energy of the Universe. They function as transceivers, creating a field of energy around themselves, that will penetrate any material substance by osmosis.

These plates will help to raise the vibrational rate of any individual using them. Many people place their food on the large purple plates, when they are still in paper sacks from the market, to keep their food fresher, longer. Some people sleep on these plates by placing them under their mattress to help give them more stamina and vitality and relieve tensions. No medical claims are made or implied. They are said to have benefited those individuals who have placed them on injured areas of the body. A certain heightened degree of hormonal intimacies among couples has also been reported. This would be similar to the energy generated by Wilhelm Reich's Orgone Accumulator. Though having none of the same properties, and while not working on the same principles, Tesla's plates have become very popular among those working with the devices known as the Black Box or the Rife Machine.

Indeed, the applications for the plates are many. Just carry the small plates in your pocket or purse or near your bedside or front door for harmony, or in your car while out driving to assist in avoiding stress and fatigue. Better yet, wear the discs as a necklace or earrings. You will find many testimonials in the pages of this book given by those individuals who are convinced that the plates, as inspired by Nikola Tesla, have enhanced their all around well being.

Indeed a miracle may be on the way once you start working with this discovery which has definitely been given to the world to benefit us all by a man who was a great genius and whom some people insist might actually have had ties to the future – did he discover the secrets of time travel? Many have wanted to know in sincere curiosity.

The author of this volume, Tim R. Swartz recently acted as an on-the-air consultant to the History Channel's mini series, "The Tesla Files." Those seeking further information should consult "The Lost Journals of Nikola Tesla" – ISBN: 1606110543 or for a more spiritual/New Age approach to Tesla's life and work we recommend "Nikola Tesla: Free Energy and the White Dove" – ISBN: 0938294822



Holistic Energy Medicine: Healing on an Alternative Route to Science (Kindle Edition)

by Marta Facin

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What is healing? What does it mean to heal definitively?

Conventional medicine for a long time it was limited to treating the symptoms of disease undervaluing the analysis of causes, while it is now clear to everyone that healing means to align body, mind and spirit, three aspects of Man, distinguished however inseparable that for the Unit Law they operate together within a vibrating balance.

There is, therefore, no single and only medicine, nor can the individual be cut off from the totality of the environment in which he lives. It is not enough to study the matter of which Man made; it is more important to consider the energy which he fed on and the channels through which he communicates with the Universal Energy in which he immersed. Matter, spirit, emotions, thoughts, are nothing more than energy events at different levels of vibration that a valid energy holistic practitioner can perceive and address to restore the energy and the emotional balance of the person.

The vision introduced by Energetic Holistic Medicine that man and all life forms of our Planet are part of Universal Energy opens the way for complementary therapeutic possibilities concerning academic ones, that rely on mutual influence between body, mind and spirit and that often led to healings considered "miraculous". Instead, holistic therapies gathered under the name of "Elimedicine" are the result of a millennial tradition that Man risks losing.

From radionics to dowsing, from chromotherapy to form waves, from the analysis of the aura to the pyramid treatments, Marta Facin accompanies us in this text to discover ancient teachings that have been misunderstood and criticised several times but now are finally recognised for their effectiveness, thanks to several real stories of success.

With a rich and engaging language, in these pages, the author concentrates years of passionate field experience. She does not deny the importance of conventional medicine and shows us how healing paths necessarily go through the therapeutic synergy of different approaches in a vision that does not separate the physical from the spiritual side and where traditional care strengthen by treatments that are as old and innovative as the energy balance of the person.

Studio Luce Angelica is the bearer of this vital message of hope: healing through an alternative way to science is possible, rediscovering the energy connections that bind us to the Universal Source, taking on the responsibility of our health and opening our arms to the gift of Love.

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USPA Psychotronics Periodicals Library

In order to do good psychotronics research of any kind, whether it involves radionics, radiesthesia, psionic medicine, dowsing, subtle energies, biophotons, or any other subject covered by psychotronics, one needs access to as much of the periodical literature as possible on these subjects.

To address this issue, the United States Psychotronics Association has resolved to identify, acquire, and digitize copies of every psychotronics related periodical that has ever been published anywhere in the world, and to retain copies in the USPA Library.

As a first step, we have developed an [online list of psychotronics related periodicals \(click here\)](#) that focus on or frequently have articles on the psychotronics subjects noted above. This is a growing list, since we know there are probably other psychotronics periodicals that have been published, but that we do not yet know about.

Please look over the online list and check your own personal physical libraries and your computer files, thumb discs, and other external hard drives to see if you have any issues of the periodicals on this list. Even if you just have one issue, please let us know, because that may be the one we need to complete all the issues of a particular periodical. **Please write to me (John Reed) at: joreed43@gmail.com, since I am the USPA librarian and archivist coordinating this effort,**and tell me what periodicals you have.

As a whole, the members of USPA and other interested non-members, have a huge "library" of periodicals, but it just happens to be "distributed" among these people at this point in time. However, we can work together, and if you would be willing to loan, donate, xerox, or as a last resort, sell copies of your periodicals to the USPA Library, then we will be able to build a large centralized library of all psychotronics periodicals. And all USPA members will then be able to use these periodicals in their research or for their reading enjoyment.

USPA Local Groups and Affiliates Update

As mentioned in the May, 2016, USPA Newsletter, one of our goals is to reactivate all of the former 24 USPA Chapters that once existed across the US and Mexico. In addition, we plan to establish new local groups of people interested in psychotronics and related subjects in other major cities in the US and other countries as well. All such local groups and affiliates will be independent, but will work together with the USPA in a mutually beneficial relationship to achieve our goals of advancing research and applications in psychotronics, radionics, subtle energy, and related fields.

So I would like to invite all of former USPA Chapters leaders and members to contact me (John Reed) at: joreed43@gmail.com and let me know if you would like to help reactivate your local chapter. In addition, if you are a leader or member of a psychotronics or related organization which was never a chapter of USPA, and we would welcome you as a USPA affiliated organization as well.

We will be establishing a USPA affiliated groups as traditional organizations and also via the Meetup.com online group platform. This will enable current and former members to more easily have local get-togethers, meetings, and other activities, and those activities, times, and other details can be posted online. So please let me know if you would like to be the leader of a group in your area.

If you do decide to use Meetup.com to establish your local group, you could do it quickly and easily by going to www.meetup.com , and clicking on the big red word “Start” in the upper left, and then just following the step-by-step procedures.

You can give your local group any name you want, but it should probably have a name that relates to psychotronics in some way. And if you need any help, please let me know, and I will help you in any way I can. Perhaps the most important thing is enthusiasm and determination, so write to me, even if you don’t know any other USPA members in your area, and I will help you set up a local group: joreed43@gmail.com

Exchange Corner and Advertisements

The "Exchange Corner", is a place where people can advertise to buy, exchange, or sell items of interest, or request information or other help in relation to something wanted. So if there is anything you want to buy, sell or trade that has to do with psychotronics, radionics, subtle energy, or related subjects, please contacted the Classified Ads manager at: joreed43@gmail.com. Advertisements are free of charge to USPA member within certain limits, but non-members will be charged for any classified or display ads. So please send your ads and wanted requests to: joreed43@gmail.com.

Wanted: Any articles, periodicals, books, devices, or other materials on psychotronic related subjects that you can donate or lend to the USPA for its library, archives, and museum. **The USPA is a nonprofit, 501(c)(3), tax exempt organization, and as such, you are able to make tax deductible donations to the USPA. Please email the USPA at: joreed43@gmail.com to make shipping arrangements. Thank you for your generosity.**

Kelly Personal Analyzer for Sale

Mariette Picket has a friend that has a brand new unused Kelly Personal Analyzer that she paid \$2100 for, and is offering it for sale at only \$1600.00 Anyone interested call Mariette at: [317-773-0061](tel:317-773-0061)

Bruce Copen MARS III for Sale

I am a current USPA member and have a **Bruce Copen MARS III** for sale. The system is about 7 or 8 years old and in original, excellent condition. Sale includes original SCOPE analysis, database and broadcast software, HP laptop, comprehensive training manual and program disc, interconnects and boxes. I have always run it on XP with no issues; everything original as supplied by Copen.

All operations can be automated and multiple broadcasts can be run simultaneously, although Copen saw to develop this device so it could be used in many radionic styles and without computer control. The price is \$8500 USD roughly half the original cost. I prefer to not ship to a destination outside the USA. A limited amount of training by me, as I understand it, is available to a confirmed purchaser, as time and distance reasonably permit. Please contact: **Dr Robert Dixon, robertdixondc@gmail.com or call (304) 259-9439** Berkeley Springs, WV.

KRT Experimental Agricultural Radionic Analyzer for Sale



For Sale:

USED EXPERIMENTAL AGRICULTURAL RADIONIC ANALYZER

Manufactured by KRT (Kelly), this machine is a predecessor to their current Workstation model. The machine is clean and in good condition. For more information please see KRT's website:

<http://www.kellyresearchtech.com>

Asking a very reasonable \$2499.00 plus \$100.00 shipping to the lower 48 states.

Please contact saminox@hotmail.com.

United States Psychotronics Association (USPA)

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What Research and Subjects Does Psychotronics Cover?

The United States Psychotronics Association defines psychotronics as the science of mind-body-environment relationships, an interdisciplinary science concerned with the interactions of matter, energy, and consciousness. Psychotronics involves the study, research, and applications of the physics and technology of the mind, brain, spirit, consciousness, and the underlying forces of life and nature – hence the term “psychotronics”.

We believe that a true understanding of the universe must include the spiritual, as well as, the technical, and provide an opportunity for amateur researchers to present their findings along with the professionals. We stress research, with documentation of results, and practical applications, rather than personal experience and unsupported hypotheses.

Some Prominent People in the history of psychotronics research and application: Albert Abrams, Thomas Bearden, Robert C. Beck, Robert O. Becker, Jacques Benveniste, David Bohm, Harold Saxon Burr, George W. Crile, Ruth Drown, T. Galen Hieronymus, Vlail P. Kaznacheyev, Georges Lakhovsky, Wilhelm Reich, Royal R. Rife, Rupert Sheldrake, Nikola Tesla, Marcel Vogel, and others.

Some of the forces, fields, waves, and energies studied and researched in psychotronics include: bioelectromagnetism, biophotons, biopotentials, electromagnetic wave pollution and harmful effects; coherent emanations of DNA, emanations of matter, “free energy”, morphogenetic fields, non-hertzian waves, orgone energy, pyramid energy and power, qi (chi), quantum fields, scalar waves, subtle energies, ultra-weak radiation of living matter, zero-point energy, and others.

Some of the phenomena believed to be produced or involved with the above fields and energies: action-at-a-distance, the aura of the body and other living things, bioinformation, bioluminescence, chakras, consciousness, distant intercellular interactions, meridians of the body, mind-body interactions, non-locality, the placebo effect, quantum consciousness, spontaneous remission of cancer and other diseases, water memory, water structure, and others.

Related fields of study and research covering the above forces, energies, and phenomena of psychotronics: bioelectromagnetics, bioenergetics, biophotonics, biophysics, psionics, psychoenergetics, psychoneuroimmunology, quantum biology, radionics, scalar electromagnetics, and others.

Some practices, techniques, and applications related to psychotronics include: acupuncture, biogeometry, brain entrainment, clairvoyance, dowsing, energy healing and medicine, extrasensory perception, feng shui, homeopathy, kirlian photography, magnetic therapy, pendulum use and methods, prayer effects, psionic medicine, psychic healing, psychometry, qigong, radiesthesia, radionics, remote viewing, shamanism, sound and sonic healing, telekinesis, telepathy, and others.

Membership Benefits

So if you are interested in any of the above subjects, then the USPA is the place for you, where you can interact with, exchange ideas, and collaborate with other people who are interested in the same subjects. So sign up now for membership in the USPA using the form on the following page and start enjoying all of your membership benefits. These benefits include, but are not limited to:

1. **USPA Psychotronics Library:** Free access to copies of certain articles, periodicals, books, audio tapes, videos, and other materials in **USPA Psychotronics Library**. Please write to joreed43@gmail.com for whatever item(s) you are seeking;
2. **Your free subscription to the USPA Journal & Newsletter;**
3. **Your right to freely publish articles in the WISE Journal - The Journal of the World Institute for Scientific Exploration (ISSN 2381-1536),** enabling the world to see your ideas or research, and thereby enhance your resume and credentials;
4. **Your right to use the USPA Literature Research Service,** whereby we will find any article, book, or other item you are seeking on the above subjects, and provide it to you;
5. **Your right to participate in the USPA "Research Assistance Program",** especially useful to professors, authors, and other researchers, who need extra help on their projects. USPA will help find volunteers to help you with your research project(s).
6. **Your right to be part of the USPA Project Participation Program,** whereby you can volunteer to help on numerous available USPA projects, or help researchers who are conducting research on psychotronics and related subjects.
7. **Your right to make oral or poster presentations at the annual USPA meeting,** with the approval of the Annual USPA Meeting Planning Committee.
8. **Your right to discounts** on the purchase of certain items and services made available for sale or provided by the USPA and its members.
9. **Your right to freely advertise in the WISE Journal,** which goes out to thousands of people monthly.
10. **Your right to participate in the USPA Psychotronic Literature Preservation Program (UPLPP).** The USPA, via its Library and Archives, has established a "Literature Preservation Program" to preserve your personal papers, files, records, and collection of articles, periodicals, books, and devices on psychotronics and related subjects, noted above. You may no longer need or use some of these items that you have, and you can send them to the USPA, and we will preserve them in our library and archives, so that they can be of use to other researchers.

MEMBERSHIP INFORMATION

The U.S. Psychotronics Association (USPA), was incorporated in the District of Columbia in August, 1977, and is a nonprofit, 501(c)(3), tax exempt organization, and as such, you are able to make tax deductible donations to the USPA. It is empowered to enroll members in the parent organization throughout the United States, Canada, and other foreign countries. Membership is open to all people who wish to join with the USPA on the new frontiers of science in working constructively for the qualitative improvement of man and his environment. **Please remember the USPA in your annual charitable giving, especially if you want to advance research in the above subject areas, which can greatly benefit humans, animals, plants, and the environment.**



United States Psychotronics Association Membership Application

Please print the page, and complete the following information:

Date _____

Name _____

Email _____

Mailing Address: _____

City _____ St _____ Zip Code _____

County _____ Country _____

Phone _____ Cell Phone _____

I am interested in the following Fields:

☐ General ☐ Healing ☐ New Age Physics ☐ Radionics
☐ Dowsing ☐ Subtle Energy Research Other Interests (Please specify) _____

Do you want to be listed in the USPA Membership Directory? ☐ Yes ☐ No

Type of Membership desired:

☐ One Year @ \$35 ☐ 2 Years @ \$60 ☐ 3Years @ \$85

☐ Full Time Student @\$20

☐ Member of the Military @\$20

☐ Family Member Membership @\$30 per Person

2nd Family Member _____ Email _____

3rd Family Member _____ Email _____

4th Family Member _____ Email _____

Fees Payable to USPA in U.S. Dollars only:

Amount Enclosed: \$ _____ Check or Money Order Number _____

☐ Send via PayPal to uspsychotronics@yahoo.com

☐ Receive a PayPal Bill (Your PayPal email) _____

Visa or Master Card # _____ -- -- -- Exp. Date _____ CVC Code _____

Name on Card _____ Signature _____

Billing Address _____

If you wish to register online, you may go to <http://psychotronics.org/join.html>

Please complete, scan and email document to Membership@psychotronics.org
Or Mail to USPA c/o Phyllis Weiland, 535 Michigan Ave, Apt. G Evanston, IL 60202

Thank You!

USPA Catalog of Conference Lectures, 1978-1994

Now Available

A compilation of nearly 300 lectures given at the first 17 years of the United States Psychotronics Association (USPA) conferences, from 1978 through 1994 is [now available in a 30 page catalog \(click here\)](#).

There are talks by some of the most well known scientists of our age, including Andrija Puharich, Thomas Bearden, Marcel Vogel, Lynn Surgalla, Robert Beck, T. Galen Hieronymus, J.G. Gallimore, Elizabeth Rauscher, Christopher Bird, and many, many more.

There are also lectures specifically about radionics from some of the top practitioners: Robert Beutlich, Lutie Larsen, Jerry Fridenstine, Frances Farrelly, and others.

If you have an interest in the paranormal, the life of plants or zero-point energy, there are speakers here who are experts in the fields. How about dark-field microscopy, scalars, magnetic fields, or the Philadelphia Experiment? Yes, they are in here in this catalog too. Homeopathy, color-healing, use of crystals, structuring water, water memory, and Tesla's work are some of the other topics covered in this catalog.

As of this date, (April 15, 2017) they are available only by direct contact with USPA, but soon, they will be available online. The USPA home page is at <http://www.psychotronics.org> and we will have a linked site where purchase will lead to immediate download of the MP3, and payment can be made through Pay Pal.

Please note that [in the Catalog \(click here\)](#), most of the lectures are standard MP3s, are 30-45 minutes long, and priced at a very reasonable \$5.00 each. These have no marking in the right-hand column of the catalog listing. Other MP3s are one hour or slightly longer, and are marked "Prime" in the right-hand column, with a price of \$8.00 each. And a few of the MP3s are 90 minutes or longer, and are marked "Double", with a price of \$10.00 each. USPA members get 40% off.

However, if you just "can't wait," for the online order website, email us at uspsychotronics@gmail.com or contact our USPA Treasurer by snail mail at:

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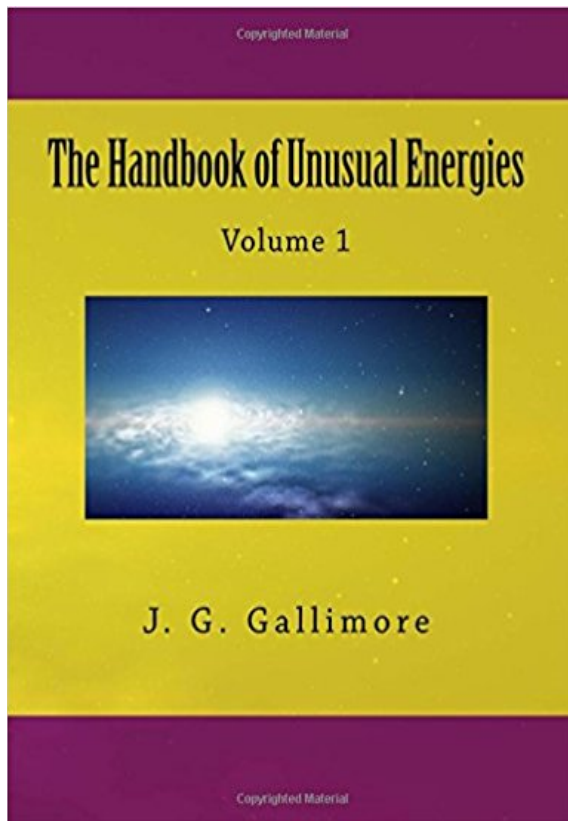
Thanks for your interest, and good luck with your research.

The Board and Officers of USPA
USPA is a fully registered, 501 C(3) Non-Profit Organization
Donations are Gratefully Accepted, and are fully tax deductible

J.G. Gallimore's Five Rare Books Now Available for Sale

All five of J.G. Gallimore's rare books on psychotronics subjects and unusual energies have been reprinted by the United States Psychotronics Association (USPA) and are being made available at a fraction of the cost that used copies were being sold at online. So rare have these books been, that only a few libraries in the entire world had them in their collections, and some of Gallimore's books were being sold for several hundred dollars each online. However, with these newly reprinted volumes, each will be available for less than \$30.00. Each of Gallimore's books is described below with links to Amazon.com.

Jerry G. Gallimore was one of the founders of the USPA in 1975, and was a leading researcher in psychotronics and unusual energies until his untimely death in 1989.



The Handbook of Unusual Energies: Volume 1

by J. G. Gallimore

Paperback: 484 pages

Publisher: CreateSpace Independent Publishing Platform (March 22, 2017)

Language: English

ISBN-10: 1543024998

ISBN-13: 978-1543024999

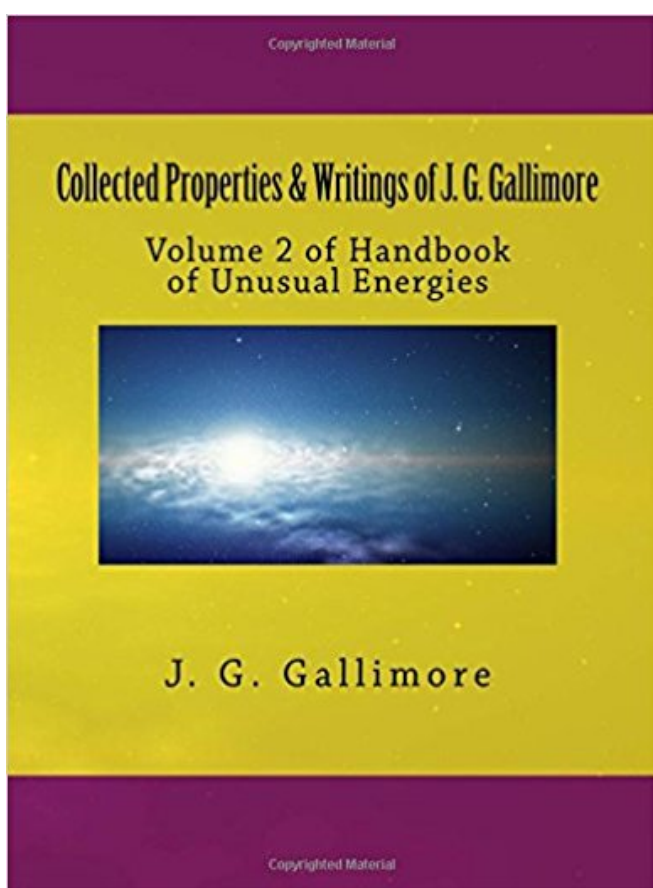
Product Dimensions: 8.5 x 1.1 x 11 inches

[Available at Amazon.com](#)

This is J.G. Gallimore's first book of three volumes on unusual energies, and at 468 pages, it is a magnificent work. In this book, Gallimore discusses in depth the research, discoveries, and

inventions of all the major researchers in subtle energies, the aether, biological

fields, pyramid energy, radiesthesia, radionics, crystal transduction, and related subjects. These include the works of Baron Von Reichenbach's and his odic energy, Dr. Wilhelm Reich's orgone energy, Dr. Harold Burr's biological life fields, Kozyrev's time mirror, Edgar Cayce's transmission of energy, and related research done by many others. Of particular importance is Gallimore's 127 page chapter on radionics. In this chapter he discusses in depth the research and devices of Ruth Drown, T. Galen Hieronymus, Rho Sigma, Dr. L. P. Corte and other prominent people in the radionics field. But in addition, Gallimore provided diagrams showing how such devices are made and how they actually work.



Collected Properties & Writings of J. G. Gallimore: Volume 2 of Handbook of Unusual Energies

by J. G. Gallimore

Paperback: 258 pages

Publisher: CreateSpace Independent Publishing Platform (March 22, 2017)

Language: English

ISBN-10: 1543025048

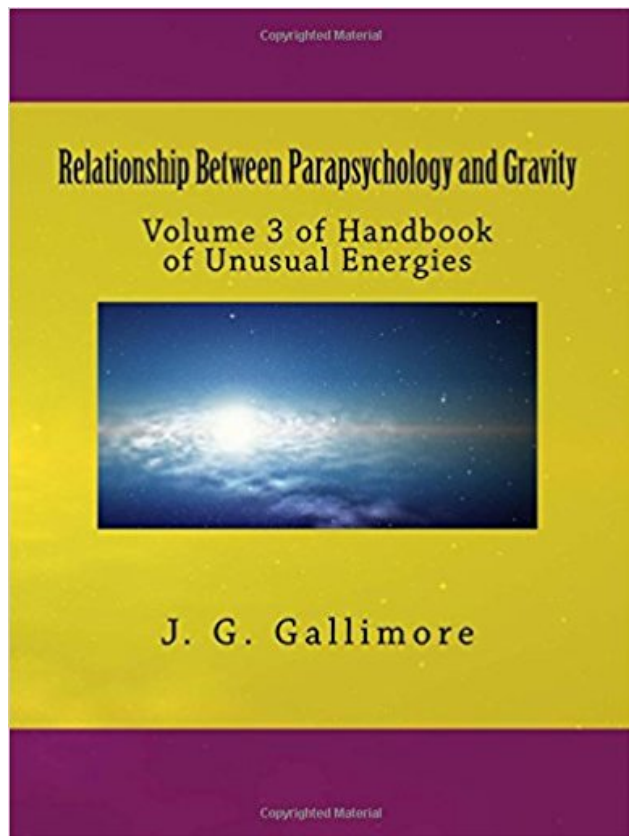
ISBN-13: 978-1543025040

Product Dimensions: 8.5 x 0.6 x 11 inches

[Available at Amazon.com](https://www.amazon.com/dp/B071K1K1K1)

This is the second book in the “Unusual Energies” series that J.G

Callimore published. It covers Gallimore's research on Albert Abrams, the founder of modern radionics, psychological physics, psychic energy, thought resonance, subtle energies, crystals, and related subjects. In addition, a number of radionics devices are discussed, such as the De La Warr Diagnostic Instrument. And very helpfully, the rates are provided for substances, body organs, and medical diseases and disorders. A very interesting interview of Christopher Bird, conducted by J.G. Gallimore is provided, as well as a discussion of Walter Russell and his research.



Relationship Between Parapsychology and Gravity: Volume 3 of Handbook of Unusual Energies

by J. G. Gallimore

Paperback: 228 pages

Publisher: CreateSpace Independent Publishing Platform (March 22, 2017)

Language: English

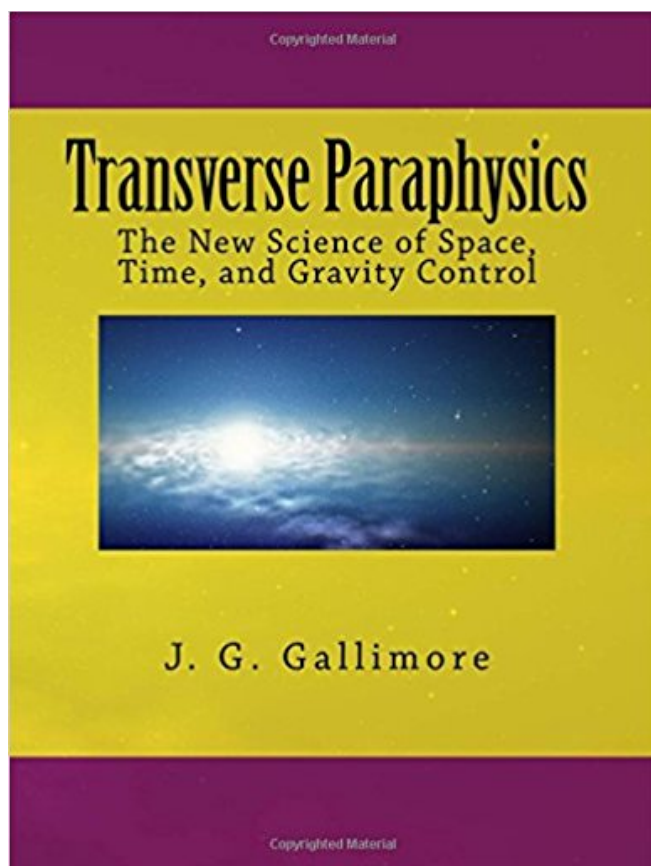
ISBN-10: 1543024947

ISBN-13: 978-1543024944

Product Dimensions: 8.5 x 0.5 x 11 inches.

[Available at Amazon.com](https://www.amazon.com/dp/1543024947)

The Relationship Between Parapsychology and Gravity is Volume 3 of J.G. Gallimore's series of three handbooks of unusual energies. This book describes in depth the research and theories of J.G. Gallimore into the question of "parapsychology transmission" --the question of how such things as telepathy, remote viewing, ESP, and similar phenomena can physically occur. Gallimore discusses various explanation on how they occur, including the possibility that gravity waves may play a role. He also discusses the various emanations, radiations, and energy fields of all matter and life. This includes the ancient Chinese energy called "chi" (qi), the ancient Indian's prana energy, Reichenback's "odhic force", Gurwitsch's "mitogenic radiation", Wilhelm Reich's orgone energy, and other subtle energies of life and matter. Gallimore shows how all of these energies are the same or similar, how they interact, and how they are related to gravity. He also discusses crystals as transducers of these energies, and provides diagrams of devices that could potentially be used to harness or control these energies.



Transverse Paraphysics: The New Science of Space, Time, and Gravity Control

by J.G. Gallimore

Paperback: 374 pages

Publisher: CreateSpace Independent
Publishing Platform (March 21, 2017)

Language: English

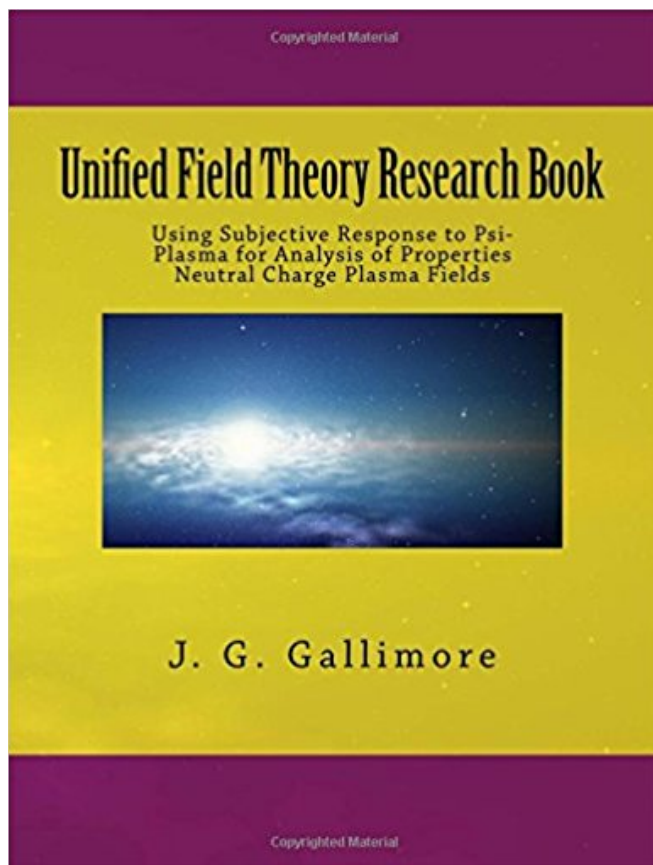
ISBN-10: 1543024920

ISBN-13: 978-1543024920

Product Dimensions: 8.5 x 0.8 x 11
inches

[Available at Amazon.com](https://www.amazon.com/dp/1543024920)

This book covers the visionary research and theories developed by J.G. Gallimore about anti-gravity, space, time, and biophysics. He discusses in depth the dimensions of space, time, and gravity, and new discoveries in each of these areas. In addition, he covers research being done on anti-gravity and then discusses anti-gravity patents that have been obtained. He also discusses the intriguing concept of aura energy fields surrounding humans and other living things, and how extra-sensory perception (ESP) might be explained through biophysical principles.



Unified Field Theory Research Book: Using Subjective Response to Psi-Plasma for Analysis of Properties Neutral Charge Plasma Fields

by J.G. Gallimore

Paperback: 134 pages

Publisher: CreateSpace Independent
Publishing Platform (March 21, 2017)

Language: English

ISBN-10: 1543024831

ISBN-13: 978-1543024838

Product Dimensions: 8.5 x 0.3 x 11
inches

[Available from Amazon.com](https://www.amazon.com/dp/1543024831)

This book is about psychotronics, radionics, electromagnetic fields and waves, psi-plasma, plasma fields, subtle energies, bioelectromagnetic energy, and other unusual energies emitted by living and non-living things. It also is about how living things interact with and are affected by these energies, which may enhance health or harm health. The book covers the research of Wilhem Reich on orgone energy, of Baron Reichenback on the odic forces, as well as research done by Cazzamalli on brain radiations and Lakhovsky on using high frequency radiations to successfully treat cancer in humans. In addition, Lakhovsky used similar methods to enhance the growth of plants. Gallimore shows how these energies, forces, and fields are all inter-related and provides hypotheses and ideas on their possible unification.