ISSN: 2473-7194



# **USPA Journal & Newsletter**

The Official Publication of the United States Psychotronics Association (USPA)

**New Series Volume 4, Number 1 (January, 2018)** 

# **Journal & Newsletter of the United States Psychotronics Association (USPA)**

New Series Vol. 4, No. 1 (January, 2018)

Editorial Office: USPA Newsletter, John H. Reed, M.D., Managing Editor, 4401 Roland

Avenue, Suite 405, Baltimore, MD 21210, USA. Email: joreed43@gmail.com;

telephone: 443-858-0575

Manuscript Submission: Submit all manuscripts as Microsoft Word documents or

PDFs by the 12<sup>th</sup> of each month.

Editor-in-Chief: John H. Reed, M.D. Associate Editor: Lutie Larsen

#### **United States Psychotronics Association (USPA) website:**

http://psychotronics.org/about.php

USPA Facebook page: <a href="https://www.facebook.com/uspsychotronics/">https://www.facebook.com/uspsychotronics/</a>

**Back Issues** are available on the USPA website above.

**Copyright:** Authors retain the copyright to their writings. However, USPA has the right to post copies of the USPA Newsletter in the USPA physical and online libraries and elsewhere on the Internet.

USPA Newsletter (ISSN: 2473-7194) is published monthly by the United States Psychotronics Association, Editorial Offices, 4401 Roland Avenue, Suite 405, Baltimore, MD, 21210 USA

# **Table of Contents**

### **News, Events, and Columns:**

2018 US Psychotronics (USPA) Conference July 20-22, 2018, Including Event and Speaker Schedule (Update): p. 1

USPA Offers "Radionics 101" Workshop, July 19-20, as Prelude to Main Conference, Updated: p. 4

Newly Discovered Psychotronics Related Organizations and Periodicals: p. 6

Global Foundation for Integrative Medicine (GFIM) Conference, March 8-9, 2018, New York City: p. 8

Alexis "Guy" Obolensky Passes Away: p. 11

Short Psychotronics News, Notes, and Queries, plus Updates: p. 12

"Among the Missing" Special: The Missing MGTP-5 Healing Device of Dr. Carl Schleicher, by John H. Reed, M.D. p. 15

2017 USPA Conference DVD Order Form: p. 17

2016 USPA Conference DVD Order Form: p. 18

Psychotronics Patents: Device for Measuring the Vibrant Energies Emitted by Matter: p. 19

"Among the Missing" (and Updates): Missing People, Books, Collections, Artifacts, Manuscripts, Periodicals, and Organizations, by John Reed, MD: p. 20

USPA Continues Online CD sales, 1978-2017 Conference Presentations: p. 28

### **Articles:**

The Priore Machine: A Biologically Active Combination of Modulated Magnetic and Microwave Fields. Office of Naval Research, (London): Report R-5-78 (August 16, 1978), by J.B. Bateman p. 29

The 5th International Conference on Psychotronic Research Held in Bratislava, Czechoslovakia, June 6-10, 1983: Program of Speakers and Presentations, by the PSI Research Editors p. 39

Bibliography on the Psychoactivity of Electromagnetic Fields by Robert C. Beck and Eldon A. Byrd p. 45

# Abstracts of Important Articles Related to Psychotronics, Radionics, and Subtle Energies:

Ives JA, van Wijk EPA, Bat N, Crawford C, Walter A, Jonas WB, et al. (2014) Ultraweak Photon Emission as a Non-Invasive Health Assessment: A Systematic Review. PLoS ONE 9(2): e87401. p. 69

Popp, F.A., Nagl, W., Li, K.H., Scholz, W., Weingärtner, O., and Wolf, R. "Biophoton Emission: New Evidence for Coherence and DNA as Source". <u>Cell Biophysics</u>. 1984 March; 6(1):33-52. p. 70

Kohut, Peter, "Unity Principle, Quantum Information & DNA" (Part 2). DNA Decipher Journal. Vol. 7, No. 2 (2017), pp. 82-97. P. 70

# Russian and Eastern European Psychotronic and Subtle Energy Research:

Kernbach, Serge. "Unconventional Research in USSR and Russia - A Short Review". International Journal of Unconventional Science, Issue E-1 (2016), 23 pages; (Includes link to full text in English), p. 71

### **Books of Interest: Jan, 2018:**

Creation of Sacred Space and Subtle Energy Balancing, by Bill Reid p. 72

Slim Spurling's Universe -- The Light-Life™ Technology: Ancient Science Rediscovered to Restore the Health of the Environment and Mankind by Cal Garrison p. 74

### **Regular Features:**

**USPA Generous Donor Recognition Page:** p. 78

USPA Library and Psychotronics Periodicals Update: p. 79

**USPA Local Groups and Affiliates Update: p. 89** 

**Exchange Corner and Classified Advertisements: p. 90** 

United States Psychotronic Association Officers & Board Members: p. 92

What Is Psychotronics? p. 93

Ten USPA Membership Benefits and Membership Information: p. 94

**USPA Membership Application and Link to Online Application:** p. 95

USPA Catalog of Conference Lectures, 1978-1994, Available for Sale: p. 96

J.G. Gallimore's Five Rare Books Now Available for Sale: p. 97

# 2018 US Psychotronics (USPA) Conference and Speaker Schedule (Updated)



We are proud to announce the preliminary schedule of the internationally known researchers who will be speaking at the 40<sup>th</sup> annual United States Psychotronics Association (USPA) conference, July 20-22, 2018, at the beautiful Hyatt Regency Hotel in Deerfield, Illinois, a suburb of Chicago. (pictured at left). These speakers include Dr. James Oschman, Dr. J.J Hurtak, Jeffrey Mishlove, Dr. Patrick Bailey, Dr. Beverly Rubik, Dr. Glen Rein, and Dr. Linda Lancaster, Lutie Larsen, Dr. Steven

Quong, Pete Radatti, and others. They will be addressing the theme of the conference, which for 2018 is "Mind, Matter, and Aether: Applications of Radionics, and the prelimanry Speaker Schedule is on the next two pages.

In addition to the above illustrious speakers, we will have numerous other researchers addressing new and developing methods on these and related subjects, such as energy medicine, scalar waves, quantum fields, orgone energy, and related topics, as we seek 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, Marcel Vogel, and others. 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 inquires to: <a href="mailto:uspsychotronics@yahoo.com">uspsychotronics@yahoo.com</a>

#### Call for Vendors/Exhibitors

The USPA welcomes vendors and exhibitors representing groups, firms, and organizations focused on the interactions of matter, energy, and consciousness. Fees are \$40 per table, plus 10% of gross sales. For more information please contact Ed Kelly, VP of Exhibitor Relations, at: ed@kellyresearchtech.com

The USPA website: <a href="https://www.psychotronics.org">www.psychotronics.org</a>

Join USPA on Facebook: https://www.facebook.com/uspsychotronics/?fref=ts

# USPA Conference Event and Speaker Schedule as of January 25, 2017

#### Friday, July 20, 2018

1:30 pm	2:30 pm	Welcome; "Overview on Psychotronics: Intention	Beverly Rubik
		Meets Technology"	
2:40 pm	3: 20pm	"History of Aether in Science"	Scott Beutlich
3:30pm	3:50pm	BREAK	
3:50pm	4:20pm	"Programming Plants with Frequency	Marty Lucas
		Information"	
4:30pm	5:15 pm	Invited Speaker, topic TBA	Aimee Whalen
5:15pm	7:15pm	DINNER on your own	
7:30 pm	8:30 pm	"The Power of Music and Sound for Mental	JJ & Desiree Hurtak
		Consciousness Upliftment"	

#### Saturday, July 21, 2018

8:30 am	8:40am	Welcome and Announcements	Beverly Rubik
8:45am	9:45am	"Highlights of Psi Research"	Jeffrey
			Mishlove
9:55 am	10:30	BREAK and EXHIBITION	
	am		
10:30	11:15	"Understanding the Etheric Body: The 4 Ethers and Subtle	Linda
am	am	Forces in Radionics"	Lancaster
11:25am	12:25pm	"New Energy Technologies and the Scientific Basis of Alchemy"	Patrick Bailey
12:30pm	2:00 pm	LUNCH on your own and EXHIBITION	
2:00pm	3:00 pm	"The Case for Radionics Broadcasting of Sanskrit Mahamantras"	Steven Quong
3:10 pm	4:00 pm	"The Etheric Nature of the Life Force"	Glen Rein
4:00 pm	4:30pm	BREAK and EXHIBITION	
4:30pm	5:30 pm	"Practical Innovations for the Radionics Practitioner"	Pete Radatti
5:30pm	6:00pm	EXHIBITION and One-Minute Presentations by Exhibitors	
6:00 pm	7:00pm	Cocktails and EXHIBITION	
7:00pm	9:30 pm	USPA DINNER (advanced ticket sales only)	

### Sunday, July 22, 2018

8:45am	9:30am	Agriculture in India Using Radionics Lutie Larse	
9:40am	10:40am	Invited speaker, topic TBA	Jim Oschman
10:40am	11:10am	BREAK and EXHIBITION	
11:15am	12:00pm	"Aether: The Dynamic Substrate of Reality"	Beverly Rubik &
			Harry Jabs
12:10pm	1:10 pm	"Aetheric Physics: Cosmic Structure and Aether Function"	Dan Davidson
1:10pm	2:30pm	LUNCH on your own and EXHIBITION	
2:40pm	3:40pm	"Opening Organs of Perception- The Human Body Antenna"	Lauren Palmateer
3:50pm	4:20pm	Eclipse Lore and Results of 3 Solar Eclipse Experiments	Harry Jabs
4:30pm	5:15pm	TBA	Daniel Taylor
5:15pm	6:00 pm	MEMBERSHIP MEETING and ELECTION	
6:00pm	6:15pm	USPA Election Results and Final Remarks	USPA-BOD
		END OF CONFERENCE—EXHIBITION Until 6:45pm	
			_

#### The United States Psychotronics Association presents:

### **Radionics 101**

### An Introductory Workshop on Radionics and Dowsing

July 19-20, 2018

(registration begins at 1:00 pm on, July 19; sessions start at 2:00 pm)

#### The Hyatt Regency Hotel

#### Deerfield, Illinois

As a prelude to the 2018 U.S. Psychotronics Conference, we are offering a short, practical introduction to radionics, beginning early afternoon on July 19th. The workshop is designed for novice practitioners and prospective students, as well as for those simply wanting to learn what radionics and psychotronics is all about. It will combine visual and explanatory presentations with several "hands-on" sessions, so participants get a real feel for what radonics practitioners do.

This workshop will be an excellent entrée to formal training in radionics. Students will learn fundamental theory, the design and role of instrumentation, and get an overview of the many applications of this cutting edge art and science. More importantly, much of the program will be handson. There will be several opportunities to experience the radionics "stick" and/or dowsing response, which is key to instrument operations in radionics and in radiesthesia.

During the program, participants will receive numerous handouts and other literature, some basic dowsing tools, and their own radionics template for what we hope will be the start of rewarding adventure in radionics.

All teachers are members of the USPA Board of Directors. Each has many years of experience in the practice of radionics and, collectively, their experience covers a wide range of applications:

Scott Beutlich is a former Director and current officer of the US Psychotronics Association (USPA), as well as the son of one its founding members. Scott will open the program with a brief history of the USPA and its role in promoting radionics through education.

Scott will be followed by George Kuepper--a long-time radionics practitioner, Biodynamic grower, and owner of Midsouth Radionics, who will give a quick history of radionics and an overview of its many applications to human and animal welfare, farming and gardening, and the environment.

Marty Lucas, the owner of Every Advantage Consulting, is a former president of the American Society of Dowsers and a certified organic farmer. Marty will lead a hands-on session on basic dowsing using traditional tools like pendulums.

Following dinner, Lutie Larsen, a noted teacher, practitioner, and the owner of Little Farm Research, will provide further hands-on training using a radionics template. The template is a simple device for basic skills training that includes finger-stick dowsing, the use of witnesses and rates, taking measurements, and broadcasting.

The following morning, Ed Kelly, the President of Kelly Research Technologies—a manufacturer of radionics instruments—will give everyone an "under the hood" look at radionics devices, to demystify the how and why of instrument construction and function. He will also guide a short exercise in instrument operation, to afford students another hands-on learning opportunity.

Dr. Linda Lancaster, a Board Certified Naturopathic Physician, Homeopath, and founder of the Light Harmonics Institute, will wrap up the program by discussing the principles of radionics and the evolution of this cutting edge science.

The workshop will come to a close at noon, prior to the USPA Conference, which kicks off at 1:30 pm. Workshop participants are encouraged to stick around!

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

#### **Our Schedule To Date**

#### Thursday, July 19, 2018:

1:00 pm-2:00 pm	Registration	
2:00 pm-2:30 pm	Welcome; About the USPA	Scott Beutlich
2:30 pm-3:30 pm	Overview of Radionics	George Kuepper
3:30 pm-3:45 pm	Break	
3:45 pm-5:30 pm	Dowsing Workshop	Marty Lucas
5:30 pm-7:30 pm	Dinner & Break	
7:30 pm-9:00 pm	SE.05 Workshop	Lutie Larsen
Friday, July 20, 2018:		
8:30 am-10:00 am	About Radionic Instruments	Ed Kelly
10:00 am-10:15 am	Break	
10:15 am-12:00 pm	The Fundamentals of Radionics	Linda Lancaster
12:00 pm	Lunch followed by conference	

# Newly Discovered Psychotronics Related Organizations and Periodicals, January, 2017

A number of newly discovered psychotronics related organizations and periodicals have been discovered since the last issue of the **USPA Journal and Newsletter**. These organizations and periodicals, some of which ceased operation many years ago, are listed below, with brief information. **If you know anything about these organizations, please contact the editor.** The periodicals have been added to the master list of psychotronics periodicals in the **USPA Periodicals Library section** of this journal. We are seeking copies of all issues of these periodicals, which we plan to digitize and make available to our members as a USPA membership benefit. So if you have any issues the periodicals listed below or any of the missing issues of the periodicals listed in the USPA Periodicals Library section of this Journal, please let the editor know by emailing him at: joreed43@gmail.com.

### **Organizations:**

Abrams Institute (Radio Diagnostic Laboratory): This organization was founded in 1927, and was located at 24 Clark Street, Brooklyn, New York. It was originally headed by Irving Platt Withington, M.D., medical director and William F. Hudgings, business manager. This organization focused on the radionics of Albert Abrams and related subjects, and published a periodical called: New ERA Health Bulletin. It is not located in any library of the world, so if anyone has any issues of this periodical in their personal collection, please write the editor, John Reed at: joreed43@gmail.com.

Institute of Aetheronic Therapy (IAT): This organization was founded in Chicago, Illinois, in the late 1920s by Dr. Dorr Eldred Wood. The IAT focused on the study and research of "aetheronics", described as the science of emanations. They used a radionics type device called the "streborcam" in their research and medical treatments. It is unknown if this organization ever published a periodical of any kind. However, this organization did publish at least two books: 1) Aetheronics: The Science of Emanations, by Dorr Eldred Wood, 1930; 2) Aetheronic Technique: How to Use Aetheronic Streborcam Instruments in Analysis and Emanation Transmission, by Dorr Eldred Wood, 1932; Both of these books are available in only one library in the world: The Bakken Library in Minneapolis, MN. If anyone has either of these books in their personal collection, please write to the editor, John Reed, at: joreed43@gmail.com.

International Kirlian Research Association (IKRA): This organization was founded in New York City in December, 1974, and was incorporated in March, 1975, located at: 2202 Quentin Rd., Brooklyn, NY 11229. Dr. Benjamin Shafiroff, New York College of Medicine, was the first president of the IKRA. It was in operation until the late 1980s when it became inactive. The IKRA focused on Kirlian photography, electrophotography, bioelectrography, and related subjects. This organization published three periodicals 1) Acta Electrographica, the title used in WorldCat, but sometimes called "Acta Electrophotographica" (1979 -) 2) IKRA Newsletter and 3) IKRA Communications, published at least from 1978 through December, 1986; If anyone has any issues of these periodicals, please contact the editor, John Reed, at: joreed43@gmail.com.

#### Periodicals: (all added to the master list of USPA psychotronic periodicals)

Clinical Bulletin (Electronic Medical Foundation): This periodical was published by the Electronic Medical Foundation in San Francisco, California, from 1945 into 1948, when it was absorbed by the Electronic Medical Digest. Clinical Bulletin No. 4 was published in mid-1946, but the exact date is unknown, because that issue is undated. However, Issue No. 17 is dated April, 1948, and it is known that an issue No. 18 was also published in 1948, before it was absorbed by the Electronic Medical Digest. The USPA Library has issues No. 4 and No. 17, but needs all other issues including what is believed to be the final issue, No. 18.

New ERA Health Bulletin: This was a periodical published by The Abrams Institute (Radio Diagnostic Laboratory) at 24 Clark Street, Brooklyn, New York. It was originally edited by the leaders of this organization, Irving Platt Withington, M.D., medical director and William F. Hudgings, business manager This periodical began with Vol. 1, No. 1 sometime in 1927, although the exact date is uncertain. It continued to be published through at least Vol. 1, No 2 published in November, 1927, but it is uncertain if any issues were published after that issue. No library in the entire world has this periodical in its collection. If by chance any reader has issues of this periodical, please write to the editor (John Reed) at: <a href="mailto:joreed43@gmail.com">joreed43@gmail.com</a>;

Research Report (Electronic Medical Foundation): This periodical was published by the Electronic Medical Foundation in San Francisco, California, beginning in the late 1940s, although the date of the first issue is unknown. Research Report No. 5 was published in 1949, but the exact date of that issue is also unknown, because it is undated. It is not known if any issues after No. 5 were ever published. The USPA Library has only issue No. 5, and needs issues No 1 through No. 4, as well as, any issues that were published after No. 5.

# 2018 GFIM WORLD CONGRESS OF INTEGRATIVE MEDICINES



# **ELEMENTS OF HEALING**

**Healing our Planet and Ourselves** 

THURSDAY & FRIDAY MARCH 8-9, 2018

**2018 GFIM NYC CURRENT, PIER 59** 



**TICKETS & INFO:** GFIMUSA.COM

On March 8th & 9th, 2018 at Current - Chelsea Pier 59, GFIM invites you to join the movement of Healing for Peace. 2 days of Lectures and Panels featuring some of the brightest minds and healers of our time. Connecting Science & Tradition, Ancient & Present, Mind, Body & Spirit. It is our belief that THROUGH HEALING WE UNITE IN PEACE



















Martha Cortes, DDS What can the mouth



Martina Goldberg, PhD Universal Energy and



Radha Gopalan, MD How to Heal the Heart





Will Keepin, PhD & Cynthia Brix, MDiv, MA The Potential for Reconciliation Between











Gerald Epstein, MD
American Institute
for Mental Imagery
for Mental Treating 3rd Nerve Palsy









GFIM Cordially invites you to take part in the the 2018 World Congress of Integrative Medicines held on Thursday & Friday March 8-9, 2018 at Chelsea Piers.

This 2 day event will feature lectures from some of the brightest minds and healers of our time creating a platform for communication and integration of all medicine and healing arts. It is through Healing that we Unite in Peace.

#### **Featuring Lectures By:**

Linda Lancaster, ND, PhD Alfredo Sfeir Younis, GFIM Peace Ambassador

#### **Key Note Speakers:**

Woodson Merrell, MD James Gordon, MD

#### **Our Honored Speakers:**

Sylvia Moss, Sound Healer

Dietrich Klinghardt, MD
Terry Tempest Williams, Author, Environmental Activist
Martina Goldberg, PhD
Ann Louise Gittleman, PhD & NY Times Bestselling Author
Prof. Martin Pall, PhD
Benjamin F. Asher, MD, FACS
Glen Rein, PhD
Zachary Bush, MD
Radha Gopalan, MD, Cardiologist
Martha Cortes, DDS
Will Keepin, PhD & Cynthia Brix, MDiv, MA
Karen Jones, Author
Mary Beth Gonzalez
Dr. Amjad Mehmood Ensari

# Special Panel - "Spirituality and Health: What is the connection?" Featuring:

Gerald Epstein, MD Loch Kelly, MDiv, LCSW, Meditation Teacher & Spiritual Therapist

#### Tickets include:

Access to all Lectures, Panels and Presentations. Catered Breaks and Lunches by Abigail Kirsch

Current at Chelsea Pier 59 is a beautiful space with views of the marina and Hudson. We are limited to a maximum capacity of 250 persons which has the potential to sell out quickly.

#### **HEAL FOR PEACE!**

More info:

<u>gfimusa.com</u> <u>gfimcongress@gmail.com</u>

We thank you for taking part in this Event and appreciate your contribution.

The GFIM Team

# **REGISTER HERE**

Global Foundation for Integrative Medicine 7608 Old Santa Fe Trail Santa Fe, NM 87505

# **Alexis "Guy" Obolensky Passes Away**

We were very saddened to learn recently that our long-time friend, Guy Obolensky, passed away on January 9, 2018. Guy was an energy medicine healer, an inventor, and researcher, and was well known for his work on reproducing Nikola Tesla's technology, and developing subtle energy devices that could treat various diseases and disorders.

To see and hear Guy speak in a short video, please click on the following:

YouTube video, "Intro to Tesla Healing Technology with Alexis G. Obolensky"

Guy published a number of articles, including <u>"Thirtysix Nanoseconds Faster Than the Speed of Light"</u>, which appeared in the December, 1988, issue of <u>Electronics and Wirelesss World</u>, and can be accessed by clicking on the above title link.

Guy spoke at many conferences, including the 2010 US Psychotronics Conference where he spoke on "The Mechanics of Time Revisited." Some of the other conferences he spoke at were:

2002-11-09	Conference on Energy & Accountability
2000-06-05	7th Natural Philosophy Alliance Conference
1997-05-23	4th International Symposium on New Energy
1994-06-20	1st Natural Philosophy Alliance Conference
1988-07-28	1988 International Tesla Symposium
1983-09-09	2nd International Symposium on Nonconventional Energy Technology

Guy's obituary was published in The New York Times on Jan. 14, 2018, as follows:

**OBOLENSKY--Alexis Guy** 

"Guy", of Sloatsburg NY, died on January 9th, 2018. Born in Chicago on March 3rd, 1929 to Prince Michel Alexeievitch Obolensky and his wife, Kathleen (nee Trask, of Lima, OH). Guy was an inventor and experimental physicist, well known for his research based on the work of Nikola Tesla. Guy is survived by five children, Michael, Alexa, Nina, Anna and Helena; and four grandchildren. A memorial service will be held at 2pm, January 16th at Saint Mary's Episcopal church, Tuxedo Park, NY.

We will all greatly miss Guy, and will always remember his many contributions to humanity.

# **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: <u>joreed43@gmail.com</u>)

- 1. Does anyone know who the author owner is of the radionics blog at <a href="https://radionicsspectro.com/">https://radionicsspectro.com/</a> ?? It is one of the finest blogs covering radionics and pscychotronics subjects on the entire Internet, but there is no indication anywhere on the very extensive blog as to who the blog owner is, except that his first name is apparently Carl. We would like to compliment Carl on all the very useful and informative articles he has written, and would like to establish contact with him, if possible. Please write to the editor John Reed at: joreed43@gmail.com
- 2. Does anyone have any periodicals, books, article clippings, devices, or other items about radionics, psychotronics, or related subjects that you would like to have preserved in the USPA Library, Archives, and Museum? If you no longer need or use the items you have, or if you have a relative who has passed away and was once interested in psychotronics subjects, we would be happy to preserve those items in their name. Please contact John Reed at: joreed43@gmail.com
- 3. Mangrove College for Radionics: Does anyone know anything about the Mangrove College for Radionics, and if it ever published a periodical of any kind? Its address at one time was: 1313 N. Market St., Hercules Plaza Suite 3410, Wilmington, Delaware 19801, although this appears to be a mail box service location. It was once headed by a Dr. P. W. Meier.
- 4. Do any of you happen to know anything about the Paraphysical Laboratory that was founded in the UK by Benson Herbert in 1966, or have any issues of the Journal of Paraphysics that he published for more than 20 years? Mr. Herbert's laboratory was located at Privett Farm, Downton, Wiltshire, England, between Salisbury and Southhampton. His mission included an attempt to provide a workable theory and physical explanation for paranormal phenomena, including telepathy, remote viewing, dowsing, and other extraordinary abilities and phenomena. Unfortunately, Benson Herbert died in 1991, and no one seems to know what became

- of the papers and records of the laboratory, or if he even had any family, who might be able to shed light on this. So if you know anything about Benson Herbert or have any issues of his periodical, please contact the editor at: <a href="mailto:joreed43@gmail.com">joreed43@gmail.com</a>.
- 5. A comprehensive bibliography of articles on biophotons, subtles energies, and related subjects has recently been discovered via the Wayback Machine. This bibliography was compiled by Dr. Marco Bischof in 2006 and includes over 1,700 articles and monographs on these subjects, dating back to the early 1900s. They include the works of such pioneers in this field as Dr. Alexander Gurwitsch, Dr. Harold Saxton Burr, Dr. Fritz Popp, and many others. Most citations are from peer reviewed journals. This bibliography is available here for your use.
- 6. 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.



7. 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 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.

- 8. 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.
- 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

10. Art Tool and Die Company: Does anyone know anything about the Art Tool and Die Company that was located in Detroit, Michigan, in the 1930s and 1940s, and apparently manufactured radionics devices? It has been referred to in a number of publications on radionics, psychotronics, and related subjects, but it is not clear what devices they manufactured.

# "Among the Missing" Special: The Missing MGTP-5 Healing Device of Dr. Carl Schleicher by John H. Reed, M.D.

Where is the MGTP-5, a pulsed magnetic field healing device that apparently was developed by Dr. Carl Schleicher, head of Mankind Research Foundation, Inc. (also known as Mankind Research Unlimited), which was active from the 1970s through around 2000, when it ceased operations??? Bothe he and the MRF/MRU are said to have had close ties to a number of US intelligence agencies.

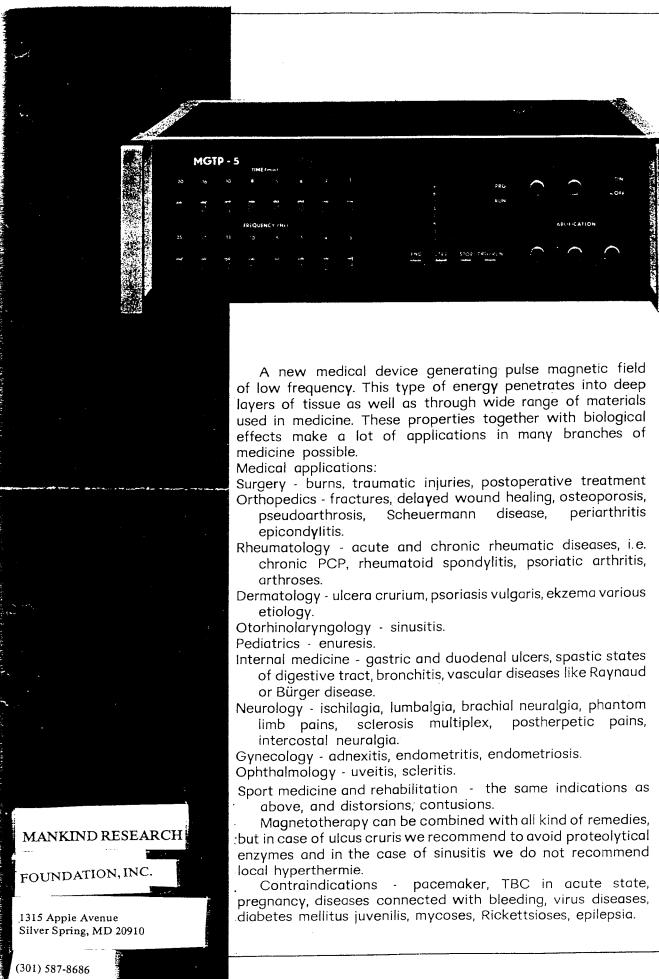
A biography of Dr. Scleicher is available here, and shows possible ties to the National Security Agency (NSA), Office of Naval Intelligence (ONI), and the CIA, although he apparently always denied being connected to the latter agency.

A flier showing a picture of the MGTP-5 device was obtained by the author and scanned, and is on the following page of this article. Besides showing a picture of the MGTP-5, the flier also shows a large number of diseases and disorders which the flier claims the device can treat. These include burns, traumatic injuries, fractures, and would healing; various forms of rheumatoid disorders, including arthritis; psoriasis, eczema, and other skin diseases; gastric ulcers, bronchitis, neuralgias and pain; endometriosis, and other gynecological disorder, and numerous others.

Such a device being able to successfully treat such a broad range of disorders in nearly every system of the body, apparently by merely adjusting the frequencies and pulse rates of the magnetic fields would certainly be of great benefit to mankind. But just as clearly, it would be a huge threat to the profits of the pharmaceutical companies, given that they make billions of dollars on medications to treat pain, arthritis, and the numerous other disorders noted above and on the flier.

A search of the Internet with its billions of pages does not produce a single page that even mentions the MGTP-5 device, let alone discusses it. And surprisingly, this device is not mentioned on the Mankind Research Unlimited website that Iona Miller has done such a beautiful job in creating and providing extensive information about the MRF/MRU. One hates to think that such a wonderful device would be suppressed, but if that has not happened, why is it not mentioned or discussed anywhere – not a single word?

Has anyone ever heard of the MGTP-5 healing device, or by some remote change, happen to actually have the device in their possession? If you have any information at all about this device, please write to the author at: joreed43@gmail.com



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 21	st Century	
	2017-6	Glen Rein	The Holographic Nature of the Mind and its Role Order Healing Phenomena	in Mediating Higher	
	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 Radioni	cs	
	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				
	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		
			Magnetism and Polarity		
	Full Conference Set \$195 with shipping				
Numbe	r of DVDs _	x \$12	+ Shipping:		
Amour	Amount Paid Name				
\$		Street Address	Street Address		
		City, State, Zip			
Phone		Phone			
Email					
Fees in	US dollars or	nly, payable to: USPA		Shipping:	
	ffice - 815-35		Email: USPsychotronics@gmail.com	<u>Shipping.</u>	
Mail to: 525 Juanita Vista Lane, Crystal Lake IL 60014			First DVD \$3.00		
Credit Card Number			1 113t D V D W0.00		
Exp. Da	Exp. Date CVC Code Zip Code Plus \$ 50 for each			Plus \$.50 for each	
Signat	ure		Date	additional DVD	
	or MO Amo		Check or M/O #		
Send n	noney via P	ayPal to USPsychotronic	cs@yahoo.com		
Reques	st PayPal b	illing from your email acc	count:		

# 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"
	Panel Discussion- "Subtle Energy w/ E. Kamhi, J. Klimo, G. Rein, E. Rowley, B. Rubik, W. T Dan Taylor		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 - Radionics Cameras of the 1900s
		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				
Number of DVDs x \$15		Due \$		
MP4 Price x \$15		Due \$		
Amount Paid	Name			
\$	Full address			
	Phone/email			
Fees in US dollars only, payable to:				
USPA			Shipping:	
USPA Office - 815-355-8030				
Mail to: 525 Juanita Vista Lane, Crystal	Lake IL 60014		First DVD	
Credit Card Number			\$3.00	
Exp. Date CVC Code_	Zip Code		Plus \$.50	
Signature	Date		for each	
			additional	
Check or MO Amount \$			DVD	
Send money via PayPal to USpsychotro				
Request PayPal billing from your email	account			

Note: If a recording is not available for whatever reason, you will be given a refunded or credit.

# French Patent # FR2710745 (A1) — 1995-04-07

### **Device for Measuring the Vibrant Energies Emitted by Matter**

Page bookmark	FR2710745 (A1) - Device for measuring the Vibrant Energies emitted by matter	
Inventor(s):	ROLAND DECAIX; CLAUDE LABROILLE $\pm$	
Applicant(s):	DECAIX ROLAND [FR]; LABROILLE CLAUDE $\pm$	
Classification:	- <i>G01V9/00</i> ; (IPC1-7): <u>G01H17/00</u> international:	
	- cooperative: <u>G01V9/002</u>	
Application number:	FR19930011865 19930929	
Priority number(s):	FR19930011865 19930929	
Also published as:	FR2710745 (B1)	

#### Abstract of Patent # FR2710745 (A1)

The invention relates to a device making it possible to measure the Vibrant Energies emitted by matter, in particular those of places, objects, plants, animals and persons. This device is in the graduated support (1) on which a plurality of wave generators (2) are arranged, the characteristics of which waves have been measured using a suitable detector (example: Lécher antenna). The relative position of these generators make it possible to emit a wave range, the value and nominal positions of which waves with respect to the graduations can be established. The graduated support also includes a metal plate (3) provided with a socket (4) allowing injection of the wave fields from the location or "subject" to be measured. This field then interferes with the fields of the generators and causes, depending on the case, a shift in the nominal positions, making it possible to quantify the energies involved. This device is particularly intended for geobiologists and for all those working in the field of vibrant energies emitted by matter.

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: <a href="joreed43@gmail.com">joreed43@gmail.com</a>, 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 Issues of the Periodical, The Pendulum.

As noted in the "Newly Discovered Psychotronics Periodicals", this was a monthly periodical published in London, England, from 1950-1963, and focused on all aspects of radiesthesia, pyramid energy, subtle energies, and related subjects. The USPA Library has 132 issues of this periodical, but is still missing the following issues:

Volume 3 Numbers 5 through 12 (February through September, 1953);

Volume 4, Numbers 1through 7 (October, 1953 through April, 1954);

Volume 7, Number 3 (December, 1956)

Volume 8, Number 9 (June, 1958)

Volume 9, Number 11 (August, 1959)

and please write to joreed43@gmail.com.

Volume 11, Number 8 (May, 1961)

Volume 12, Numbers 9 through 12 (June through September, 1962)

Only one library in the world has this periodical in its collection: The British Library. If any readers live near this library, or have any of the above issues in their private collections, it would be greatly appreciated if you would xerox these issues and send the copies to the USPA Library. We will be happy to reimburse you for any expenses.

Please write to the editor (John Reed) ahead of time if you are willing to help: joreed43@gmail.com;

# Missing Person: Paul Sauvin, USPA 2<sup>nd</sup> Vice Pes., 1976 and 1<sup>st</sup> Vice Pres., 1977

Paul Sauvin, whose full name is Pierre Paul Sauvin, is an electrical engineer and inventor who, according to one source, worked in the aerospace industry and later with the National Institute for Rehabilitation Engineering at St. Joseph's Hospital in Paterson, NJ. He also worked with Dr. Carl Schleicher, head of Mankind Research Unlimited, and helped develop a device called the "AGRAD Machine". This device was designed to control crop insects, and was introduced on an experimental basis, although it is not known if it ever reached commercial production. Paul Sauvin's mother was Edith Sauvin, who lived in White Plains, NY, and died August 25th, 1987. Edith's only child was Pierre Paul Sauvin, who himself had 2 sons, Alan Paul Sauvin and Steven Eric Sauvin. He also had one daughter, Jane Elizabeth Sauvin. Any help in locating the children of Paul Sauvin would be greatly appreciated,

# Missing Person and Periodical: William Reid, Editor of the Journal of Scientific Controversy

We are trying to find William Reid, or his surviving family, who lived in the Boulder, Colorado, area in the 1960s and edited a periodical called "Journal of Scientific Controversey."

Mr. Reid had placed an advertisement in a 1963 issue of **Analog Science Fiction and Fact** (ASFF) stating that the first issue of the **Journal of Scientific Controversy** would be published in the second quarter of 1963. The advertisement showed William Reid as the editor, **with the address: P.O. Box 855, Boulder, Colorado.** (There was no zip code at that time.)

However, it is uncertain how many issues, if any, were ever published of this periodical. It is not found in any public, government, or university library in the world, including the Library of Congress or British Library. But many periodicals on controversial subjects are not held by such libraries, so this is not entirely surprising.

If any of you know, or once knew, a person by the name of William Reid, who lived in the Boulder, Colorado, area in the 1960s, please write to the editor at: joreed43@gmail.com. Many of you are family tree and genealogy researchers, so even if you have never heard of this man, perhaps you would be kind enough to check your genealogy resources to help locate him or his family.

#### 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-1instruments 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 and Mysterious Stone: The "Swedish Stone" of T. Henry Moray's "Free Energy" Device:

Has anyone done any research on what the substance called "Swedish Stone" is that T. Henry Moray used in the 1920s to extract energy from cosmic rays and produce electricity? According to Moray's original diaries, he discovered the stone somewhere near the city of Abisco, Sweden, in 1913 when he was there doing his overseas Mormon missionary service. He brought the stone back to the US and subsequently created a device using the stone to produce electricity in much the same way that silicon is used to produce electricity when struck by light. However, the Swedish stone used in Moray's device apparently had the particular molecular and/or crystalline structure such that it would produce electricity when struck with cosmic rays, which constantly strike the earth. And since cosmic rays are an electromagnetic wave with much higher energy than light, which is also an electromagnetic wave, Moray's device produced a great deal more electricity than any current silicon based devices of similar size.

Since cosmic rays flood the universe, clearly such a device could provide essentially free electrical power anywhere on earth or anywhere else in the universe. Some have hypothesized that the Swedish stone was a radioactive substance, whose radioactivity was used to produce the electricity. However, others believe that the Swedish stone was not radioactive, but just happened to have the particular structure necessary to convert cosmic rays to electricity. Theoretically there are substances like silicon, only of a different structure, that will convert each of the electromagnetic wave frequencies to

electricity, and perhaps Moray just accidentally discovered the substance that would do this with cosmic waves. Please contact the editor if you have any information about this "Swedish Stone" substance: joreed43@gmail.com

# Andrija Puharich's Lost Manuscript and other Puharich Mysteries by Greg Mallozzi

During the late 60s and into the 70s, Puharich owned and worked out of a large house in rural Ossining, New York. A home laboratory known as Lab 9. Lab 9 produced the most mysterious and far out work that Puharich was involved in when he began to delve deeper and deeper into parapsychological, experimental research: like alleged communication with extraterrestrial beings VIA trance mediumship and ELF (extremely low frequency) waves and their effect on the brain.

At Lab 9, Puharich worked with a faraday cage, a large cage that blocks electrostatic and electromagnetic influences. Puharich found that when a subject was placed inside the faraday cage and a certain level of specially controlled electromagnetic waves were sent through the cage, the subjects ESP abilities were heightened significantly. He conducted what some have called inhumane, psychological experiments on human subjects. Lab 9, like The Round Table Foundation, began to attract people from all walks of life.

Shrouded in controversry, the new film on the life of Dr. Andrija Puharich that we are producing will show what Lab 9 was really like, using never before seen photos, videos and transcripts. In 1978, a mysterious attempt to burn down Lab 9 was made. The town of Ossining ruled it arson. Puharich's publisher, Doubleday, was also broken into at this time and the manuscript he was working on was destroyed. Was someone out to get Puharich, to discredit and sabotage his work? If so, who? People who were present at Lab 9 at the time of the infamous fire will weigh in on what really happened, which to this day is unsolved.

If anyone has any knowledge about the missing manuscript or other mysteries surrounding the life of Dr. Andrija Puharich or has any video tapes, audio tapes, or correspondence of Puharich, please contact:

Greg Mallozzi at: <a href="mailto:gregorymallozzi@gmail.com">gregorymallozzi@gmail.com</a> or the editor John Reed at: joreed43@gmail.com

### Combo Mystery: Missing Person, Organization, and Book, All Related

**Person:** Dr. Floyd S. Graham, Sr. **Organizations:** Radionic Laboratories and Radiant Associates, Inc. founded by Floyd S. Graham, Sr. **Book:** The Radiant Era, by Floyd S. Graham, Sr.

This is our first "Combo Mystery" of a missing person, the organization(s) he founded, and the book that he wrote. The organization "Radionic Laboratories" was referred to in the American Society of Dowsers Quarterly Digest, Vol. 4, No. 2 (May, 1964), page 22, in a letter to the editor, by Dr. Floyd S. Graham, Jr. It indicated that Dr. Graham was the president of the "International Headquarters Unit" of "Radionic Laboratories", located in the small town of Tumtum, Washington, which is located northwest of Spokane, WA. The letter was signed "Radiant Associates, Inc.".

These names suggest that there may have been two different organizations, or that the "Radionic Laboratories" was part of the corporation, "Radiant Associates, Inc. However, I checked my database of incorporated organizations, which covers both profit and non-profit corporations, operating or defunct, that have been formed in the United States and



worldwide since the early 1900's, and neither name was shown as ever having existed in the State of Washington. But since the letter was written and published in 1964, there is little doubt that Dr. Graham and the organization entities he mentioned did exist at that time in Tumtum, WA.

A further mystery related to Dr. Graham is the booklet he wrote titled, "The Radiant Era", date and place of publication unknown. It is being offered for sale online, with a photo, as shown at left. It is said to be

published by the Journal of Natural Living, and is 22 pages long, stapled, and sized 6.75 by 7.75 inches.

However, a check of the WorldCat database, which lists the holdings of every library in the United States, Canada, and the UK, including the Library of Congress and the famous British Library (AKA British Museum Library), shows that this booklet by Dr. Graham is not located in any known library.

So if you know anything about Dr. Floyd S. Graham, Sr., the Radionic Laboratories, or Radiant Associates, Inc., in Tumtum, Washington, or anything about his booklet, The Radiant Era, please contact the editor, John H. Reed, at: <a href="mailto:joreed43@gmail.com">joreed43@gmail.com</a>. If you happen to have a copy of the booklet in your personal collection, the USPA Library would greatly appreciate it if you would make a xerox copy of it for the library, which you can scan and email as a PDF, or send the physical copy to: USPA Library and Archives, 4401 Roland Avenue, Unit 405, Baltimore, MD 21210.

### **Missing Devices:**

 The AGRAD Machine: In the 1970's Mankind Research Unlimited, Inc.(MRU), headed by Dr. Carl Scleicher, 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.

### **Missing Organizations:**

- 1. American Electronic Research Association (AERA): Albert Abrams established the American Electronic Research Association in the early 1920s and it continued to operate until at least 1935, when John F. Spaunhurst was the president of AERA, according to the 1935 Edition of Who's Who Among Association Executives. The AERA published the monthly Journal of the American Electronic Research Association from 1924 through some point in 1936, when it ceased publication, according to Harvard University records. Only two libraries in the world are known to have issues of this periodical. There are only two issues in the Harvard University Medical School Library, and the Kirkwood School of Osteopathic Medicine has one issue. If you know anything about this organization, or happen to have any issues of its journal, please contact the USPA Journal and Newsletter editor, John Reed at: joreed43@gmail.com.
- 2. International Association for Psychotronic Research (IAPR): Does anyone know what became of the International Association for Psychotronic Research? And do any of you have copies of its meeting proceedings or newsletter, if such a newsletter were published? It was founded in 1973, even before the United States Psychotronic Association (USPA), which was founded in 1975. However, the current location or activities of the IAPR are unknown.

The IAPR held numerous international conferences around the world, beginning with its first in 1974 in Prague, then Czechoslovakia. At this conference, Dr. Zdenek Rejdak was elected president for the Eastern Division of the IAPR, and Dr. Stanley Krippner was elected president for the West. The 8th International Conference on Psychotronic Research was held in Milwaukee, Wisconsin, 1993, as a joint conference with the United States Psychotronics Association (USPA), but it is unknown if any subsequent conferences of the IAPR were held.

Proceedings of each of these conferences were published. If copies of these proceedings can be obtained, or any newsletters that it may have published, we will add them to the USPA Library and make them available to USPA members.

If you have any knowledge about this organization, please write to the editor at: joreed43@gmail.com

3. International Radionics Association (IRA): Does anyone know anything about the International Radionics Association (IRA), which was located in Springfield, Missouri in the late 1940s. This is known, because a book called The Truth about Radionics was published in 1947 by this organization, and although the author's name is anonymous, it is highly probable that the author was T. Galen Hieronymus, who passed away many years ago.

I checked several newspaper databases, and references to this organization were found in the press as far back as the early 1930s, and as late as the early 1960s, but nothing more recent than that. If you have any knowledge about this organization, please write to the editor at: joreed43@gmail.com

### **Missing People, and Updates:**

#### **Missing USPA Related People:**

We are trying to track down some of the original directors and officers of the United States Psychotronics Association (USPA), when it was organized in 1975, with the word "Radionics" in the organization title. Does anyone have any information on the current whereabouts of the following people, or family members, if the person is known to have passed away, or where they passed away?? Please check Ancestry.com, social media websites, newspaper archives, and any other databases you have to help find these people.

1. Dr. Marcel Vogel and his Research Papers: Does anyone know what became of the papers and files of Dr. Marcel Vogel, who died in 1991? Dr. Vogel did extensive research on crystals and crystal healing, pyramid power, the "Backster Effect" involving plants and their bioenergetic fields, and a number of other psychotronics related subjects. He also spoke numerous times at USPA conferences. Marcel Vogel worked at IBM for 27 years and had 32 patents. If you have any knowledge about Marcel Vogel and what became of his papers and files after he died, please write to your editor at: joreed43@gmail.com. The USPA would like to make sure that all of his papers are preserved.

### **Missing Periodicals:**

<u>1.</u> British Journal of Radiesthesia and Radionics: Does anyone have any issues of The British Journal of Radiesthesia and Radionics. It was published in London, England, by the British Radiesthesia Association, 1953-1963. The original title was **British Journal of Radiesthesia**, published from 1953-1957. No libraries in the United States, public or university, have this journal in their collection., and only five libraries elsewhere in the world are known to have any issues at all: The British Museum Library (AKA The British Library), Oxford, Cambridge, the National Library of Scotland, and Trinity College Library, in Dublin Ireland. If you have any issues of this periodical, will you please let me know? And for our members and associates in The UK and Irelad, if you can access these periodicals at any of the above libraries, you would do a huge service for all of us if you would Xerox what issues are available and send them to me. A generous donor has offered to pay whatever expenses are involved for doing this service. We will add them to the USPA Library and make them available to researchers. Please contact the editor at: joreed43@gmail.com

#### **Missing Books:**

Rhea White and Larissa Vilenskaya wrote a book titled <a href="Parapsychology">Parapsychology</a> in the Soviet Union, Eastern Europe, and China: A Compendium of Information. It was supposedly published by Scarecrow Press of Metuchen, NJ, a well know publisher of reference books. This book was listed as reference work #680 on <a href="page 213">page 213</a> of Rhea White's book, Parapsychology: New Sources of Information, 1973-1989, also published by Scarecrow Press. I called the publisher, and they said they have never published this book, and know nothing about it. As you can see from entry #680, Rhea White noted that this book was "in press", so it may have been in a preparation stage, but the manuscript may never have been sent to Scarecrow Press.

Again, I have searched the WorldCat, which shows books and monograph holdings of virtually every public and university library in the United States and Canada, and many of the large libraries in the UK and elsewhere in the world. But this book title does not exist in the WorldCat database, which indicates that this book is not held in any library, even special collections, which are also included in WorldCat. Unfortunately, I was unable to ask either of the authors about this, since both have passed away.

Rhea White was a well known parapsychology researcher, so some of you may have known her or heard her speak of the missing book manuscript that she was working on. Larissa Vilenskaya was from Russia, but lived and worked in the San Francisco area, and she was a prolific researcher on Russian and Eastern European psychotronics research. Please write to your editor at: <a href="mailto:joreed43@gmail.com">joreed43@gmail.com</a> if you have any information about this at all.

# USPA Continues Program to Offer Digital Copies of All Conference Presentations, 1978-2017

The United States Psychotronics Association (USPA) is continuing its program to make all USPA Conference presentations available on DVDs and other digital media. Through this program you will eventually be able to access all of the hundreds of presentations given over the years at USPA conferences from 1978 through 2017, and subsequent years. It will include all of the presentations given by such luminaries in the psychotronics field as (alphabetically):

Arden Anderson, Cleve Backster, Col. Thomas Bearden, Robert C. Beck, Robert Beutlich, Chris Bird, Tom Brown, Eldon Byrd, Phillip Callahan, Beverly Coleman, Bruce De Palma, Eric Dollard, Sherry Edwards, Jerry Fridenstine, Jerry G. Gallimore, Toby Grotz, Mary Hardy, Barbara Hero, T. Galen Hieronymus, Kathleen Joyce, Elen Kamhi, Peter Kelly, Moray B. King, John Klimo, Lutie Larsen, Samuel Lentine, Peter Lindemann, Andrew Michrowski, Henry Monteith, Peter Moscow, Preston Nichols, Brian O'Leary, Don Paris, Dale Pond, Andija Puharich, Elizabeth Rauscher, Glen Rein, Beverly Rubik, Carl Schleicher, Ed Skilling, Maj. Gordon Smith, Dennis Stillings, William Tiller, Thomas Valone, Marcel Vogel, Charles Whitehouse, and many, many more.

The DVDs of all of these USPA Conference presentations will be made available at <a href="http://uspa.emediapress.com/">http://uspa.emediapress.com/</a>, and presentations will be added year-by-year over time. Many of the presentations from 1978, 1979, and 1980, are already available, so please go to this website to see what presentations you may be interested in. And, of course, keep this website in your "favorites" folder and check back periodically to see new selections that have been added. Please be patient, however, because there are hundreds of presentations, and it will take some time to get them all up on the website for the forty years, 1978-2017.

# The Priore Machine: A Biologically Active Combination of Modulated Magnetic and Microwave Fields

United States Department of Defense, Department of the Navy, Office of Naval Research, (London): Report R-5-78 (August 16, 1978)

by J.B. Bateman

#### **Introduction:**

A very complicated generator invented by Antoine Priore (or Prioré), a former radar operator without academic qualification, has been said to produce radiation which causes certain implanted animal tumors to regress and cures trypanosomiasis in certain laboratory animals. There are several remarkable things about the papers describing these biological effects, the most remarkable being the contrast between the careful detail in which the biological data themselves are presented and the absence of anything but the most vague, and often contradictory, information about the generator. I have given examples of these disparities elsewhere (1).

A first consequence of the publication of these communications in the *Comptes rendus de l'Académie des Sciences* (Paris) was a violent polarization of opinion within the Academy and in other French scientific circles. There were some who wished to ignore or deny any phenomenon, however completely attested, brought about by inadequately specified means; they would have opposed presentation of the reports to the Academy and would probably have succeeded in suppressing them but for the determined sponsorship o£ the distinguished secrétaire-perpétuel, Prof. Robert Courrier. Others felt that the importance of the results, if they could be confirmed, made further investigation imperative: if possible, with disclosure of the inventor's "secret"; if not, then without it.

A second result was the journalistic exploitation of a situation brimming over with human interest. Commentators (2)(3)(4)(5) ranged from a writer in Esquire who has since followed another path to notoriety (3) to Lord (Solly) Zuckerman writing in popular vein (4). None of them resisted the regrettable impulse to step up the popular appeal by introducing scientifically irrelevant biographical details about Priore in order to demonstrate his worthiness for political patronage, which indeed he has

received in abundance. Aside from this, they maintained a nice balance between sympathy for the victim of prejudice and healthy scepticism toward his work. Zuckerman, in a lecture given at the Lovelace Foundation in Albuquerque (5), gives Priore an honorable place in his catalogue of those whose innovative achievements remained unrecognized because of conservative prejudice and ignorance, from Babbage to Peyton Rous, though not without leaving himself a loophole should the initial promise not be kept. The main point, he insists, is that people who believe in what they are doing should refuse to be discouraged in an atmosphere of incomprehension and hostility.

The present report is the outcome of a visit to Priore's establishment sponsored by the organization ADERA for those attending a course of instruction on microwave exposure hazards (6). I shall write very briefly about the alleged biological effects, then about the Priore invention itself and the nature of its biologically active output. Impressions and private conversations bearing on these matters will be mentioned when they add, reliably or otherwise, to the total picture.

#### **Biological Observations ~**

There is a pre-history of verbal recollection and gossip connected with the Priore invention. Priore himself is said (3) to have become interested in possible medical applications of electromagnetic waves upon observing that fruit and vegetables could be preserved by exposure to ultra-high frequency fields. A machine was built from US Army surplus and at some stage sick persons were placed in the field generated (3). According to a US scientist who has been interested in repeating some of the Priore experiments, a politically well-connected lady who was cured in this way of cancer after receiving a prognosis of early death is still enjoying perfect health in Bordeaux.

The first experiments on cancerous animals were done by Delmon and Biraben who withheld their results from publication after receiving an unfavorable report from a committee, and because of a fear that publication would prejudice the candidature of one of them for admission to a fellowship (aggregation) (7). They used (8) rats implanted subcutaneously with a well-characterized uterine carcinoma, the so-called T8 (Guérin), having previously studied the effects of x-rays and of pulsed magnetic fields upon these animals without finding anything particularly noteworthy: The magnetic fields had no effect on tumor growth or on the occurrence of lympth node metastases, while the remission produced by x-rays was only transient. After exposure to the window of Priore's machine, on the other hand, tumor growth could be stopped for as long as three months afterwards. The animals recovered good general health, and lymph node metastases were seldom seen.

The T8 tumor in rats was also used by Rivière and colleagues (9) from Guérint's laboratory in the cancer institute at Villejuif. They found macroscopic regression of the tumors and of metastases after treatment and observed no relapses up to three months thereafter. Their publication anticipated that of Delmon and Biraben.

Rivière and colleagues then worked with rats implanted with a lymphoblastic lymphosarcoma which when untreated invariably proved fatal within 11 to 15 days, with generalized colonization of the nodes and a leukemic syndrome. Treatment under the Priore machine led to total regression of the graft and of the accompanying metastatic and leukemic phenomena (IO). Certain of these experiments were done with animals from Courrier's laboratory under the constant supervision of his assistant Madame Colonge. The results were the same, and Courrier reported them in an addendum to a further paper by Rivière et al (11) describing comparable results with a mouse lymphosarcoma. Further studies with the rat (12) yielded the discovery that treated rats clinically free of the lymphosarcoma were able to resorb a second transplant of the isologous tumor while succumbing to an homologous tumor of a histologically different type.

Courrier (7) complained that, because of a campaign of disparagement, no French "cancerologists" offered to repeat these experiments Shortlived cooperation was however forthcoming from an English laboratory. According to one account (2), cancerous mice were sent over to Priore's establishment and some healthy ones were later sent from there to England, but the latter were not the ones that had been sent for treatment. The anonymous director of the English laboratory withdrew his cooperation, though not without providing "a French colleague" with a detailed memorandum. In 1977 Courrier (7) issued his own account of the episode and identified the persons concerned. The director was the late Sir Alexander Haddow (Institute of Cancer Research, Royal Cancer Hospital, Univ. of London), and his envoys to Floirac were E. Whiss and Dr. and Mrs. E.J. Ambrose, the latter being scientists of some repute. Courrier was evidently not persuaded that any substitution had taken place, for he wrote that the rumor was put about: on fait courir le bruit...

The discovery of specific anti-tumor immunity in the treated animals may have lent force to the hunch that the Priore radiation might act upon the immune system of the host rather than directly upon the cancer cells. At any rate, Professor Raymond Pautrizel, a parasitologist already associated with the work of Rivière and Guérin, exposed mice after they had been injected with a dose of Tryponosoma equiperdum sufficient to kill them within five days if untreated, and they all survived (13). At this point extraordinary measures were taken to remove all suspicion of fraud. The experiments were repeated successfully under lock and key and under the eye of a bailiff appointed by a "Commission de Contrôle" composed of university officials and local dignitaries. The official report was certified by all the members of the

Commission. A positive result obtained under such conditions, said Courrier (7), should have put an end to all criticism from men of good faith.

In a further series of short papers in the *Comptes rendus Acad. Sci. Paris* (14) (15) (16) this indirect effect upon the immune system of animals infected with T. equiperdum was confirmed and elaborated. These brief published statements represent a lot of work: just how much was apparent from a lecture given by Pautrizel during my visit to Floirac. When I asked about his plan to publish the evidence in detail, he told me that he had not found a journal willing to accep such a manuscript.

The evidence presented, furnished by experiments on mice (13) (14) (16), rats (14) and rabbits (15), follows fairly conventional lines which I shall not attempt to review in detail. Briefly: the pathogenic organisms disappeared from the treated arimals, which survived indefinitely. In rare cases where the parasites reappeared, they were of a different antigenic type from those causing the original infection. Treatment brought about an intense acquired immunity. Some animals were reinfected 7 times over a period of 6 morths, eventually with 100 times the original, and otherwise invariably fatal, dose, Multiple reinfection resulted in a high titer of agglutinating antibodies. The blood of these animals conferred upon other normal animals an immunity which persisted for about 45 days. Treatment with an immunosuppressor, cyclophosphamide, depressed, but did not abolish, the appearance of agglutinating antibody when infected animals were subjected to Priore irradiation, although relapse occurred after about 12 days. Newborn animals died of the infection whether irradiated or not, and the organisms found in their blood were of the original strain. Trypanosomal antigen of unspecified nature, injected intraperitoneally after the first irradiation of infected animals, caused an enhancement of antibody production. When the parasites were protected from the host's immune system by being implanted in a diffusion chamber, Priore irradiation failed to inhibit their multiplication. In his talk, Pautrizel said that in order to elucidate further the apparent effect of irradiation in exalting the mobilization of the immune system, the course of change of immunoglobulins M and G. of albumin/globulin ratio, and of agglutinating and hemagglutinating titers was followed in irradiated and reinfected animals for about one year. The data were given in detail. With no time in which to understand, much less to assimilate them, I was left only with the impression that a clear picture has yet to emerge a conclusion apparently shared by Prof. Czersky of Warsaw. One point of interest was the passing mention of a failure to modify the course of a malarial infection. This is not surprising, perhaps, remembering the vastly more complex life cycle of the plasmodium and its greater antigenic variability.

The postulated general stimulation of "defense mechanisms" by the output of the Priore machine led Pautrizel to ask whether this effect might extend to the prevention or cure of atherosclerosis. Another short paper communicated, as usual, by Courrier

(17), described a "spectacular" attenuation of the hyperlipemia induced in rabbits by a diet of "industrial granules" supplemented by 1% of cholesterol, resulting in a daily cholesterol intake by each rabbit of about 1 gram. The observed effect of irradiation took the form of an inhibition of increased cholesterolemia, persisting for several weeks after treatment, and a marked decrease in the extent of aortic deposition. I find the data rather unconvincing, with quite a lot of overlap of experimental and control values. As for the explanation of the effect, if it can be confirmed, Pautrizel and colleagues (17) ask whether it could be due to an activation of lipid catabolism. Strangely enough they do not discuss the role of macrophages in the regression of tumors, the cure of trypanosomiasis, or the prevention of hypercholesterolemia, although macrophage mobilization might provide a common mechanism.

#### The Invention ~

Much has been written deploring Priore's secretiveness. It has been an embarrassment in one camp and a ground for dismissing his invention in another. My own view is that a secretive inventor and his invention, if important, must be investigated as a part of the external world, and the obstacle posed by limited cooperation accepted in the spirit in which the inaccessibility of nature is accepted as a challenge to our wits. Priore has in fact been much more considerate than the Almighty, who after all has provided no blueprints to his creations, while Priore included in his first paper a footnote (9) informing us that the physical principle of his invention has been the subject of a patent (18). How strange that none of the journalistic commentators, from Zuckerman down the line, have thought it worthwhile even to mention the existence of this document. When drawing it to the attention or several members of the party visiting Floirac, I found astonishment at its existence followed by doubts as to whether, since they had not read it, it could contain any information of value. I had no opportunity to ask Priore about it, but an associate who did so met with a similar response: it won't help very much, he said. Nevertheless the apparatus described is presumably that used by Rivière, in whose paper it is mentioned, and the amount of detail given is such that, unless indeed it is fraudulent, a reasonable guess as to the nature of the emerging radiation ought to be possible for people competent in the field.

With this in mind I planned to include only a summary in this report, but have now decided upon a full translation (Appendix), without which the odd flavor of the document would be lost. A seemingly reasonable description of components and layout is coupled with a quaint - some might say superstitious - intrusion of pseudo biology and mention of electrophysiological pioneers whose identity can only be guessed through a haze of misspellings. There is, for instance, the choice of modulation frequency of the magnetic field to match the rhythm of the patient's heartbeat. There is, too, the comment that the best results are obtained when the

cathode generating a stream of positive ions is made of molybdenum, the metal whose valency is closest to the mean valency of the chemical molesules constituting living tissues.

I leave the reader to form his own impression of the invention described in the patent, save to mention that the active radiation emerges from a tube containing a rotating deflector upon which impinge, from several different sources, a stream of positive ions accelerated in a cyclotron, a beam of centimeter waves generated by a magnetron, and a magnetic field. Any or all of these may be chopped or modulated according to various patterns. The machine was working during the visit to Floirac. One could see the exit of the tube beneath which the biological targets are placed. There was a certain amount of rumbling and crackling, and the pinkish luminescent plasma appeared to be turbulent. I asked about the speed of rotation but was told by one of Priore's assistants that the information is strictly confidential. I could guess it to be well under 100 rpm.

#### The Emergent Field ~

After several misleading statements about the nature of the biologically active field generated by Priore's machine (mentioned in ref 1), a short paper in the « Comptes rendus » described the results of experiments in which two physicists of established reputation had been allowed to cooperate with Priore, Pautrizel, and their associates. Berteaud and Bottreau (19) were able to analyze the radiation in some detail, up to x-and gamma-ray frequencies. Their report is confined to the assertion that they have established the presence of a 904-GHz pulsed electromagnetic wave, amplitude modulated at HF frequency 17 MHz, and a slowly modulated continuous magnetic field of the order of 1 kG. Other components, if detected, are not mentioned. There exists, I am told, a confidential report of the whole investigation. Bottreau assured me personally that there was no trace of ionizing radiation.

Berteaud and coworkers (19) also mapped the intensity distribution of these radiations in a plane perpendicular to the axis of the apparatus. Then, using as targets mice infected with T. equiperdum, they were able to demonstrate a simple relationship between the rate of decrease of parasitemia in these animals and the relative intensity of the UHF component. However, in separate experiments they found that fatalities among infected mice were not decreased when the animals were exposed to an unmodulated 9.4-GHz field of comparable intersity. They concluded that the UHF field generated by Priore's machine is a necessary but not sufficient condition for the observed biological effects.

The results of Berteaud et al leave us with some unanswered questions. If their analysis of the field was complete, the biological activity must rest jointly on the UHF

component and the magnetic field. How critical are the exact values of the many parameters involved and the relationship between them for the manifestation of biological activity? Is it possible that the methods available to Berteaud and coworkers were incapable of furnishing a complete analysis?

One can only speculate. It has struck me that in all the papers describing the biological effects of this radiation, there is nowhere any mention of any search for the correct operating conditions of the machine. Apparently the machine, if it works at all, always produces results, and one must remember that two different models have been built and found to be effective. The one quantity that is resularly mentioned is the magnetic field strength, 620 G in the first model and 1240 G in the second. The patent document seems to suggest that there is great flexibility in the mode of operation. It is moreover almost inconceivable that Priore could have had any genuine theoretical basis upon which to favor one particular set of patterns over another in relation to biological changes that are themselves of intractable complexity and totally unpredictable. One is bound to suspect that the exact mix is anything but critical, and that if the reported biological effects are genuine they might very well be brought about by much simpler means. It is of some interest that extremely sharp frequency selectivity has been claimed in recent biological experiments with monochromatic microwaves, in contrast to the sort of flat response surmised in the present context. The need for fine tuning could of course be obviated in a machine designed for sturdiness and broad applicability by arranging for it to generate "white" energy with respect to the several decisive characteristics, including modulation frequencies and perhaps their derivatives, or alternatively to generate an output which varies rapidly in real time, systematically or randomly, over a sufficiently wide range of values. The biological effects of such radiation would then he the sum of Various qualitatively and quantitatively different selective processes including the possible cancellation of additive effects such as stimulation and inhibition. However, total nullification would be no more likely than it is, for instance, in the visible everyday consequences of illumination by sunlight. Such an approach, if it has been adopted by Priore or if it has emerged fortuitously as an unforseen property of an assemblage of components chosen on the basis of some other rationale, would account for the extravagance of the machine in energy consumption in return for a very modest biological yield. There is no immediate evidence for this in the statements of Berteaud and Bottreau (19), but the relevant quality of "whiteness" might apply pertinently to other parameters than those investigated by them. The possibility that some hitherto unrecognized feature of the radiation from a rotating plassa may be responsible for the Priore effects should not be dismissed out of hand, at any rate by those who, like myself, know nothing about plasmas. Dr. John Carstoiu of Brookline, MA, who counts among his accomplishments an extension of the Maxwell equations to the evaluation of ponderomotor forces, likes to call the Priore machine a magnetohydrodynamic wave

guidea He considers the acceleration of the plasma to be a significant feature. He refers to the various types of oscillation that may be set up but does not, and presumably cannot, say how they can manifest themselves across a quartz window. One's naive reaction is to doubt, in any case, whether the accelerations attainable in an apparatus as described in the patent document would be great enough to initiate a gravitational wave of any significance. Unless the suggestion is an obvious absurdity to a plassa physicist, somebody will have to do the arithmetic.

#### The New Generator ~

The further development of Priore's invention is being done under the auspices of an organization set up for the purpose: the Société d'Exploitation du Rayonnement Antoine Priore (SERAP) which brings Priore into formal relationship with a company, Moteurs Leroy Somer of Angouleme. This company has been the recipient of a \$ 0.7 million contract from the DGRST (Delégation Générale à la Recherche Scientifique et Technique) for the construction of a third machine of greatly increased output. Priore has been reported (3) to predict that the cost is more likely to be \$ 3 million. No doubt other sources of funding are available. In return for such support Priore promises a much bigger and better machine that will generate a more intense field of much larger cross section than those with which the results already reported were obtained. So, one can guess, larger groups of small animals will be irradiated simultaneously for shorter periods than formerly and the rate of accumulation of data will increase -- if, that is, the biological measurements can keep pace. Perhaps too, by the same token, small groups of large animals will be treated, with the single sick human as the ultimate target of the entire endeavor.

Little was learned of this latest development during my visit to Floirac. The Priore residence is coming to look like an industrial laboratory of electrical engineering geared to pilot scale operations. There are rumors of serious technical difficulties such as might have been anticipated in scaling up such a complicated device. It is said to be proving difficult, for instance, to construct a pyrex container able to cope with the very high energy flux in the plasma.

Is the new machine really needed? At the technical level the answer is almost certainly "no". Evidently technical considerations are overruled by others, no doubt of a personal, political, and even patriotic nature. The whole operation takes on a farcical aspect when one considers that the only genuine need in the present state of affairs is to get independent confirmation, or refutation, of results already obtained with equipment that was clearly adequate for the original experiments. The funds now made available would suffice for the building of several replicas of the Mark 2 machine. These, placed in selected centers of research, could be used by independent teams for a critical repetition and extension of earlier findings. The success or

otherwise of the time-consuming attempt to build a giant machine is largely irrelevant to the central doubts that persist as to the claims made for the Priore radiation, and this expensive diversion of effort betrays a certain recklessness which ill serves the quest for a solution to the mystery surrounding "L'affaire Priore."

#### References ~

Note: References (3) to (5) have been available to me only in the form of translations into French and I therefore cite them in this form, with the original English reference when available.

- 1. Bateman, J.B., 1977. Microwave Magic. *ONR London Conference Report*, ONRL C-14-77.
- 2. Greenberg, D.S., 1973. The French Concoction. *Saturday Rev. Sci.*, May, 36-44. Translated by the « Association Nationale de Bioélectromagnétisme » (ANB) under the title : « La Mystérieuse Machine Médicale Française ».
- 3. Rorvik, D.M., 1975. « Les Frangais ont-ils un Traitement Contre le Cancer ? » Translation by ANB of the article in *Esquire*, July.
- 4. Zuckerman, (Lord), 1973. « Le grand mystère de la machine magnétique de Bordeaux ». Translation by SERAP of the article : The great Bordeaux magnetic mystery machine. *Sunday Times Weekly Review*, 7 Jan.
- 5. Zuckerman, (Lord), 1974. « Orgueil et préjugé dans le domaine de la science ». Translation by ANB of the William Randolph Lovelace Commemorative Lecture : Pride and prejudice in science. *Aerospace Medicine* 45, 638-647.
- 6. Bateman, J.B., 1978. Staging the perils of non-ionizing waves. Office of Naval Research London, *European Scientific Notes*, ESN 32-3: 85-88.
- 7. Courrier, R., 1977. « Exposé de M. le professeur R. Courrier secrétaire perpétuel de l'Académie des Sciences fait au cours d'une réunion à l'Institut sur les effets de la machine de M. A. Priore le 26 Avril 1977 ».
- 8. Delmon, G., Biraben, J., 1966. « La croissance du carcinome de Guérin sous l'action de champs magnétiques ». *Rev. Path. Comp.* 3, 85-88.
- 9. Rivière, M.R., Priore, A., Berlureau, F., Fournier, M., Guérin, M., 1964. Action de champs électromagnétiques sur les greffes de la tumeur T8 chez le rat. *Compt. rend. acad. Sci.* 259, 2895-7.

- 10. Rivière, M.R., Priore, A., Berlureau, F., Fournier, M., Guérin, M., 1965a. Effets de champs électromagnétiques sur un lymphosarcome lymphoblastique transplantable du rat. *ibid.* 260, 2099-2102.
- 11. Rivière, M.R., Priore, A., Berlureau, F., Fournier, M., Guérin, M., 1965b. Phénomènes de regression observés sur les greffes d'un lymphosarcome chez les souris exposées à des champs électromagnétiques. *ibid.* 260, 2639-2642.
- 12. Rivière, M.R., Guérin, M., 1966. Nouvelles recherches effectuées chez les rats porteurs d'un lymphosarcome lymphoblastique soumis à l'action d'ondes électromagnétiques associées à des champs magnétiques. *ibid.* D262, Z669-2672.
- 13. Pautrizel, R., Rivière, M., Priore, A., Berlureau, F. 1966. Influence d'ondes électromagnétiques et de champs magnétiques sur l'immunité de la Souris infestée par Trypanosoma equiperdam. *ibid.* D263, 579-582.
- 14. Pautrizel, R., Priore, A., Berlureau, F., Pautrizel, A.N., 1969. Stimulation, par des moyens physiques, des défenses de la souris et du rat contre la trypanosomose expérimentale. *ibid.* D268, 1889-1892.
- 15. Pautrizel, R., Priore, A., Berlureau, F., Pautrizel, A.N., 1970. Action de champs magnétiques combinés à des ondes électromagnétiques sur la trypanosomose expérimentale du lapin. *ibid*. D271, 877-880.
- 16. Pautrizel, R., Priore, A., Mattern, P., Pautrizel, A.N., 1975. Stimulation des défenses de la souris trypanosomée par l'action d'un rayonnement associant champs magnétiques et ondes électromagnétiques. *ibid.* D280, 1915-1918.
- 17. Pautrizel, R., Priore, A., Dallochio, M., Crockett, R., 1972. Action d'ondes électromagnétiques et sur les modifications lipidiques provoquées chez le lapin par l'administration d'un régime alimentaire hypercholesterolé. *ibid.* D274, 488-491.
- 18. Priore, A., 1963. Procédé et dispositif de production de rayonnements utilisables notamment pour le traitement de cellules vivantes. République Française: Brevet d'invention P.V. No. 899.414, No. 1.342.772. Délivré par arrête du 7 Octobre 1963.
- 19. Berteaud, A.J., Bottreau, A.M., Priore, A., Pautrizel, A.N., Berlureau, F., Pautrizel, R., 1971. Essai de corrélation entre l'évolution d'une affectation par Trypanosoma equiperdam et l'action d'une onde électromagnétique puisée et modulée. *Compt. rend. Acad. Sci.* D272, 1003-1006.

## The 5<sup>th</sup> International Conference on Psychotronic Research Held in Bratislava, Czechoslovakia, June 6-10, 1983: Program of Speakers and Presentations

#### **USPA Editor's Note:**

The follow article was originally published in the journal, <u>PSI Research</u>, vol. 2, no. 2 (June, 1983), and shows the speakers and the titles of their presentations at the 5<sup>th</sup> International Conference on Psychotronic Research Held in Bratislava, Czechoslovakia, June 6-10, 1983. This, of course, was before the end of the Cold War, and the splitting of Czechoslovakia into the countries of the Czech Republic and Slovakia.

The presentations would be very interesting to psychotronics researchers, and the USPA Library and Archives would like to obtain copies of presentations, or else abstracts, at least, if full copies are not available.

It is not known if there were any Proceedings of this conference that were published, and none are available in any library in the world, according to WorldCat, although Proceeding of other International Conferences on Psychotronic Research are held by a very few libraries.

If by chance any of you have copies of theses presentations, abstracts, or the Proceedings of this Conference, please contact the editor, John H. Reed, who also heads the USPA Library and Archives at: joreed43@gmail.com.

In addition, USPA would like to contact these individuals or their surviving relatives, to make sure their papers are preserved, so if any of you have contact information on any of the presenters, please write the editor. The only presenter on the list that we currently have contact information for is Dr. Russell Targ of Stanford University.

#### PSYCHOTRONIC CONFERENCE IN CZECHOSLOVAKIA

As we have already informed readers of Psi Research, the Fifth International Conference on Psychotronic Research is scheduled for June 6-10, 1983 in Bratislava. The Conference celebrates the 10-year anniversary of the establishment of the International Association of Psychotronic Research and plans to deal primarily with the application of psychotronics in practice. The Honorary Board of the conference includes well-known figures in the field, such as V.P. Kaznacheev and F.N. Romashov (USSR), Z. Rejdak and J. Sedlak (CSSR), H. Larcher (France), E. Igenbergs (West Germany), H. Guber (Austria), and S. Inomata (Japan). Everyone who was invited to the conference, received a detailed program which included a large number of speakers. We reproduce this program below, with corrections of a few misspelled names and titles of papers:

#### I. PSYCHOTRONICS AND PHYSICS

- 0	. Fedorenko . Inomata	Physical Aspects of Psychotronics, USSR Conversion of Shadow Energy into Electrical
		Energy by Using Lead Batteries, JAPAN
1	. Patrovski	Influence of Some Force Fields on the
ď		Physical Properties of Water, CSSR
1	/. Patrovski	Monitoring of Some Physical Energies
		Generated by Human Organism, ČSSR
1	. Kogan	Theoretical Assumptions of Bioinformation,
		USSR
1	N. Sochevanov	Monitoring Wavelengths Emitted by People,
		Plants and Minerals, USSR
2	Z. Rejdak	Bioinformation with Following Physical
		Verification, CSSR
1	/. Žert	Bioindication and Some of its Physical
		Assumptions, ČSSR
1	V. Neumann	Physical Essence of Bioenergetics, USSR
(	G. Constantine-	The Blocking Effect of Stimulated Light
2	scu, E. Celan	Emission: A Reconsideration, ROMANIA
1	E. Celan	The Electronographic Investigation Through
		the Amplitude Spectral Analysis in the
		X Domains, ROMANIA

#### II. PSYCHOTRONICS AND BIOLOGY

V.	Kaznacheev	Communication at the Cellular Level: The Basis for Understanding the Communication between Human Organisms, USSR
M.	V1ček	Ideas on the Existence of Electromagnetic Orientation Quantum Organ in Man, ČSSR
H.	Larcher	Antropogenesis and Psychotronic Phenomena, FRANCE
v.	Inyushin	Biological Plasma and Stimulation by Laser Beam, USSR
V.	Sochevanov	Distant Interactions among Plants, USSR
A.	Smilov	Informational Aspects in Distant Biological Transmission, BULGARIA
V.	Baranovich	
2.	Rejdák	Negative Influence of Geopathogenic Zones on Organisms, ČSSR
В.	Krčmár	Molecular Emission out of the Underlying Zones and its Geochemical Detection, CSSR
F.	Andrs	Geopathogenic Zones and Breeding of Animals, CSSR
V.	Pašteka	Geophysical Anomalies and Geopathogenic Zones, ČSSR
C.	Stribu	About Distant Intercellular Electromagnetic
M.	Manolescu	Interaction between Two Tissue Cultures,
E.	Celan	ROMANIA
E.	Celan	Electrographic and Thermographic Investiga- tion on Transmission of Bioinformation between Plants, ROMANIA
T.	Aok1	Growth of a Plant under Electromagnetic Environment Induced by High Voltages, JAPAN
S.	Inomata	On Complex EM Fields Theory, JAPAN
	III.	PSYCHOTRONICS AND MEDICINE, PSYCHIATRY

E. Chernyshev	Psychotronics and Medicine, USSR
F. Romashov	On Some Possibilities of Psychotronic
	Application in Medicine, USSR

	Ι.	Bradna	Practical Application of Distant Myotrans- fer, ČSSR
(	).	Jurušek	Geopathogenic Zones and Human Organism, CSSR
1	i.	Olšar	The Surface Receptors of Human Organisms and the External Fields, ČSSR
E	2.	Velchover	Clinical Aspects of General and Local Pigmentation of a Man, USSR
1	1.	Ivanova	Experiments during Biotherapy, USSR
I		Davitashvili	Application of Existent Medical Registration Apparatus for the Objectivization of Bio- therapy, USSR
1		Romashov	The Relationship between Psychosomatic States and Fasting Therapy, USSR
1		Alekseyeva	The Adaptive Circle of Iris, USSR
I	2.	Pitschadze	Adaptive Trophic Changes during Diseases of Stomach, USSR
1	7.	Romashov	Ultrasound Cavitations on Indexing of Non-
]	Ξ.	Leonov	specific Immunoresistance in Patients with Surgical Infection, USSR
1	F.	Romashov	Surgical Corrections and the Influence of Magnetic Fields during Obliterate Diseases, USSR
1	E.	Celan	Electronographic Investigation on the
1	г.	Andrian	Evolution of a Muciparous Adenocarcinoma
	٧.	Soltuz	Experimentally Induced in Rats, ROMANIA
	J.	Kaloušek	Biotherapy in the Complex Natural Therapy Course, CSSR
		IV.	PSYCHOTRONICS, PSYCHOLOGY, PEDAGOGY AND CREATIVITY
1	R.	Targ	Proposed Application of Associational Remote Viewing to Oil and Natural Resource Recovery, USA
1	М.	Černoušek	Psychological Aspects of Biotherapy, CSSR
1	м.	Černoušek	Noncritical Attitudes to So-called Mysterious Phenomena and Mental Health, ČSSR
	v	Deslacada	The Araldontiday of Dominantial Dominantia

The Application of Dermooptical Perception

The Correlation of Mental Processes with Electrographic Report, WEST GERMANY

in Blind Men, FRANCE

Y. Duplessis

E. Igenbergs

V.	Ivanova	Some Experiments during the Training of Telegnosis, USSR
G.	Krokhalev	Energy Fields of the Brain during Auditory Hallucinations, USSR
G.	Krokhalev	Biophysical Mechanisms of Pathogenesis of Schizophreny, USSR
G.	Lozanov	Reserves in Brain Capacities and their Practical Application in Pedagogic Process, BULGARIA
S.	Romen	Practical Consequences of Psychical Self-regulation, USSR
	Toušek	Possibilities and Limits of the Application of Precognition, CSSR
	Gaymaz	Causes of Mental Unrest and their Removal, TURKEY
G.	Gaymaz	Psychosomatic Practice in Diagnosis and Healing of the Patients, TURKEY
	Nikolaev Arlashin	The Role of ESP during the Solving of Intellectual Tasks, USSR
	v	. PSYCHOTRONICS AND METHODOLOGY
V.	Doležal	Methodology Problems of Interdisciplinary Branches, ČSSR
A.	Sandor	Psychotronic Metrology of Influence Quantities, CSSR
	Rejdák	New Facts in the Field of Dowsing and Geo- pathogenic Zones, ČSSR
	Ivanenko	Interpretation of Some Old Practices from the Viewpoint of Contemporary Science, USSR
$E_*$	Chernyshev	Psychotronics and Methodology, USSR
٧.	Hrubý	Monitoring and Reinforcing in Psychotronics, ČSSR
V.	Hrubý	Apparatuses in Psychotronics, CSSR
	. Naumov	New Directions in Psychotronics, USSR
	Hokynář	From Biotherapy to Resonance in Organism Induced by Artificial Energy Fields, ČSSR
L.	Loučka	Informational Aspects of Psychotronic Phenomena, ČSSR
В.	Herbert	Dermooptical Perception of Moving Targets, ENGLAND

G. Caymaz
Prediction of Earthquakes, TURKEY
A. Timosenko
G. Playfair
D. Blewett
Prediction of Earthquakes, TURKEY
Solid Shapes and Living Matter, ROMANIA
Psychotronics and Subjective Mind, ENGLAND
Induction-Resonance Model of Psychic Energy
Dynamics, CANADA

Despite the fact that some of the topics are only remotely related to the field of psi research, many titles sound very promising. One comes across many familiar names in the above list, while the presence of some of others is quite unexpected. Many will be surprised by the inclusion of the name of Dr. Ippolit Kogan, who announced more than eight years ago that he had lost his interest in the issues of bioinformation. Karl Nikolaev and Anatoly Arlashin apparently will only be able to present results dating from about 10 years ago, since they stopped active experimentation (at least, openly) that long ago. It is difficult to assess what the reappearance of their names signifies from the viewpoint of the situation in Soviet psi research.

It is most unlikely that Barbara Ivanova and Gennady Krokhalev will be permitted to participate personally in the conference. It is also unlikely that Ippolit Kogan, Vladimir Neumann, Nikolai Fedorenko or Konstantin Ivanenko will be allowed to travel to Bratislava. However, we better not try to make predictions, but rather report about the conference in the next issue of Psi Research.

# BIBLIOGRAPHY ON THE PSYCHOACTIVITY OF ELECTROMAGNETIC FIELDS

### Robert C. Beck and Eldon A. Byrd

USPA Editor's Note: This article was originally published in ARCHAEUS, Issue #4 (1986).

It is unusual to include a bibliography of this magnitude with a mere position paper; however, we feel that, with a subject as controversial as this one, it is essential to give the reader an insight into the tremendous amount of work that has gone on in the background of this relatively new field. The bibliography accompanying the article originally ran only four pages; then, with the help of Eldon Byrd of the Naval Office of Surface Weaponry, a more extensive one was compiled on this sensitive topic. This important bibliography is included in its entirety.

-ED. of ARCHAEUS

J. Aarons, J. Low frequency electromagnetic radiation 10-900 cycles per second. J. Geophys. Res. 61 (1956): 647. ----. and M. Hinissart. Low frequency noise in the range 0.5-20 cycles per second. Nature 172 (1953): 682-683. Abbas, M., and H. Poeverlein. Propagation of hydromagnetic waves in current-carrying regions of the ionosphere and magnetosphere (parallel propagation). *Radio Sci.* 3 (1968): 1010–1012. Abeles, M., and M. H. Poeverlein, Jr. Multispike train analysis. Proc. IEEE 65 (May 1977). Adey, W. R. Cerebral structure and information storage. In Progress in Physiological Psychology, ed. E. Stellar and J. M. Sprague, 3, 181-200. New York: Academic Press, 1970. —. Discrimination among states of consciousness by EEG measurement. Electroencephalog. Clin. Neurophysiolog. 22 (1967): 22-29. -. Effects of electromagnetic radiation on the nervous system. Ann. N.Y. Acad. Sci. 247 (1975): 15. --. Evidence for cooperative mechanisms in the susceptibility of cerebral tissue to environmental and intrinsic electric fields, In The Functional Linkage in Biomolecular Systems, ed. F. O. Schmitt, D. M. Schneider, and D. Crothers. New York: Raven Press, 1975. - . Extracellular microenvironment. In A. K. Katchalsky, V. Rowland, and R. Blumenthal, Dynamic Patterns of Brain Cell Assemblies, 80-85. Cambridge, Mass.: MIT Press, 1974. Frequency and power windowing in tissue interactions with weak electromagnetic fields. Proc. IEEE 68 (January 1980). -—. The influences of impressed electrical fields at EEG frequencies on brain and behavior. In Behavior and Brain Electrical Activity, ed. N. Burch and H. I. Altschuler, 363-390. New York: Plenum Press, 1975. -. Introduction to the effects of electromagnetic radiation on the nervous system. Ann. N. Y. Acad. Sci. 247 (Feb. 28, 1975): -. Ionic nonequilibrium phenomena in brain cell interactions with EM fields. 179th Annual Meeting, American Chemical Society, Physical Chemistry Section, Houston, Tex., March 1980. -. Ionic nonequilibrium phenomena in tissue interactions with electromagnetic fields. In ACS Symposium Series 157, Biological Effects of Nonionizing Radiation, ed. K. H. Illinger, 272-297. Washington, D.C.: American Chemical Society, 1981.

Adey, W.R. Long-range electromagnetic field interactions at brain cell surfaces. In Magnetic Field Effect on Biological Systems, ed. T. S. Tenforde. New York: Plenum Press, 1978. —. Models of membranes of cerebral cells as substrates for information storage. Bio Systems 8 (1977): 163–178. — Nonlinear effects of electromagnetic fields on whole organisms, living tissues and tissue preparations. In Nonlinear Electrodynamics in Biological Systems, ed. W. R. Adey and A. F. Lawrence, 3-22. New York: Plenum Press, 1983. — . Organization of brain tissue: Is the brain a noisy process? Int. J. Neurosci. 3 (1972): 271–284. — Tissue interactions with nonionizing electromagnetic fields. *Physiol. Rev.* 1981). — , and S. M. Bawin. Brain interactions with weak electric and magnetic fields. Neurosci. Res. Prog. Bull. 15 (1977). -. Nonequilibrium processes in binding and release of brain calcium by low-level electromagnetic fields. Advances in Chemistry Series 188, 361-378. Washington, D.C.: American Chemical Society, 1980. , and A. F. Lawrence, ed. Nonlinear Electrodynamics in Biological Systems. New York: Plenum Press, 1983. -, and D. O. Waiter. Application of phase detection and averaging techniques in computer analysis of EEC records in the cat. Exp. Neurol. 7 (1963): 186-209. -, et al. Impedance changes in cerebral tissue accompanying a learned discriminative performance in the cat. Exp. Neurol. 7 (1963): 259-281. Adler, R. A study of locking phenomena in oscillators. Proc. IEEE 61 (October 1973). Adrian, D. J. Auditory and visual sensations stimulated by low-frequency electric currents. Radio Sci. 12 (November-December 1977): 243-250. Albanese, R. A., and E. L. Fell. Radiofrequency radiation and chemical reaction systems. Second Annual Meeting, Bioelectromagnetics Society, San Antonio, Tex., Sept. 14-18, 1980. Al'pert, Y. L., and D. S. Fligel. Propagation of ELF and VLF waves near Earth. New York: Consultants Bureau, 1970. Altmann, G. Die physiologische Wirkung elektrischer Felder auf Organismen. Arch. Met. Geophys. Biol. 17 (1969): 269–290. Alvarez, A. M. Apparent points of contact between the daily course of the magnetic components of the earth together with certain solar elements, and the diastolic pressure of human beings and the total count of their leukocytes. Puerto Rico J. Publ. Health Trop. Med. 10 (1935): 374-395. Anderson, D. J., and M. J. Correia. The detection and analysis of point processes in biological signals. Proc. IEEE 65 (May 1977). Anninos, P. A. Electromagnetic fields generated from neuronal activity. T.I.T.J. Life Sci. 3 (1973): 15-18. Aschoff, J. Internal dissociation and desynchronization of circadian systems. Proc. XXI Cong. Aviat. Space Med. (1973): 225. -, and U. Gerecke. Desynchronization of human circadian rhythms. Jap. J. Physiol. 17 (1967): 450-457. -, et al. Interdependent parameters of circadian activity rhythms in birds and man. In Biochronometry, ed. M. Menaker, 3-27. Washington, D.C.: National Academy of Sciences, 1971. Asian, E. Broad-band isotropic electromagnetic radiation monitor. IEEE Trans. Instr. Meas. 21 (1972): 421-424. Axelrod, J. The pineal gland: A neurochemical transducer. Science 184 (1974): 1341. Azarnia, R., and W. R. Loewenstein. Parallel correction of cancerous growth and of a genetic defect of cell-to-cell communication. Nature 241 (1973): 455-457. -, et al. Intercellular communication and tissued growth. VI. Failure of exchange of endogenous molecules

Acad. Sci. 71 (1974): 800-884. Baranski, S. Histological and histochemical effects of microwave irradiation on the central nervous system of rabbits and guinea pigs. Am. J. Phys. Med. 51 (1972): 182-191. -, and Z. Edelwein. EEG and morphological investigations upon influence of microwaves on central nervous system. Acta Physiol. Pol. 18 (1967): 423. and-. Experimental and electroencephalographic studies of microwave effects on the nervous system. Ann. N.Y. Acad. Sci. 247 (1975): 109-116. Barlow, J. S. Rhythmic activity induced by photic stimulation in relation to intrinsic alpha activity of the brain in man. Electroencephalog. Clin. Neurophysiol. 12 (1960). Barnothy, M., ed. Biological Effects of Magnetic Fields. 2 vols. New York: Plenum Press, 1964, 1969. Barnwell, F. H. A day-to-day relationship between the oxidative metabolism and world-wide geomagnetic activity. Biol. Bull. 119 (1960): 303. Bass, L., and W. J. Moore. A model of neuron excitation based on the Wien Dissociation Effect. In Structural Chemistry and Molecular Biology, ed. A. Rich and N. Davidson, 356-369. San Francisco: W. H. Freeman, 1968. Bassett, C. A. L. Electrical effects in bone. Sci. Am. 18 (1965). - . et al. Augmentation of bone repair by inductively coupled electromagnetic fields. Science 184 (1974): 575-577. Bawin, S. M., and W. R. Adey. Interactions between nervous tissues and weak environmental electric fields. Proceedings of the 1975 Annual Meeting, U.S. National Committee, International Union of Radio Science, 1976. , and ———. Sensitivity of calcium binding in cerebral tissue to weak environmental electric fields oscillating at low frequency. Proc. Nat. Acad. Sci. 73 (1976): 1999-2003. ---, et al. Effects of modulated very high frequency fields on specific brain rhythms in cats. Brain Res. 58 (1973): 365-384. —, et al. Effects of modulated VHF fields on the central nervous system. Ann. N.Y. Acad. Sci. 247 (1975). —, et al. Possible mechanisms of weak electromagnetic field coupling in brain tissue. Bioelectrochem. Bioenerg. 5 (1978): 67-76. , et al. Weak, amplitude-modulated radiofrequency fields modify 4,5 Ca 2+ release from cat cerebral cortex in vivo. Second Annual Meeting, Bioelectromagnetics Society, San Antonio, Tex., Sept. 14-18, 1980. Becker, R. O. The effect of magnetic fields upon the central nervous system. In Biological Effects of Magnetic Fields, vol. 2, ed. M. F. Barnothy, 207-214. New York: Plenum Press, 1969. . The neural semiconduction control system and its interaction with applied electrical current and magnetic fields. Proc. XI Int. Cong. Radiol. 11 (1965): 1753-1759. Beischer, D. E., and J. D. Grissett. Extremely low frequency radiation and man. Proceedings, Department of Defense Electromagnetic

, and V. R. Reno. Magnetic fields and man: Where do we stand today? AGARD Conference Proceedings No. 95, Pt. III: Spe-

, et al. Exposure of man to low intensity magnetic fields in a coil system. NAMI-1018 NASA R-39. Pensacola, Fla.: Naval

—. Microwave energy distribution measurements in proximity to man and their practical application. Ann.

cial Biophysical Problems in Aerospace Medicine, ed. A. M. Pfister, C12, 1-9. Paris: Necker-Enfants Malades, 1971.

Research Workshop, ed. P. Taylor, Commander, USN. 1971. (Limited distribution.)

N.Y. Acad. Sci. 247 (1975): 473-479.

Aerospace Medical Institute, Oct. 3, 1967.

between cancer cells with defective junctions and noncancerous cells. J. Membr. Biol. 10 (1972): 247-258.

Azarnia, R., et al. The membrane junctions in communicating and noncommunicating cells, their hybrids, and segregants. Proc. Nat.

- Beischer, D, E., et al. Exposure of man to magnetic fields alternating at extremely low frequency. NAMRL\* Report no. 1180, July 1973.
- Bender, H. A. A study of the effect of ELF electromagnetic fields upon Drosophila melanogaster. Final report, University of Notre Dame, November 1976.
- Bennett, M. V. L. Electroreception. In *Fish Physiology*, ed. W. S. Hoar and D. J. Randall, vol. 5, *Sensory Systems and Electric Organs*, 493–574. New York: Academic Press, 1971.
- Berry, M., and A. C. Riches. An immunological approach to regeneration in the central nervous system. *Brit. Med. Bull.* 30 (1974): 135–140.
- Bhaumik, D., et al. On the possibility of Bose condensation in the excitation of coherent modes in biological systems. *Phys. Lett.* 56A (1976): 145–148.
- Biggs, M. W. Studies on biomagnetic effect in mice. In *Magnetic Field Effect on Biological Systems*. New York: Plenum Press, 1978. Bise, W. Low power radio-frequency and microwave effects on human electroencephalogram and behavior. *Physiol. Chem. Phys.* 10 (1978).
- Blumenthal, R., et al. Membrane excitability and dissipative instabilities. J. Membr. Biol. 2 (1970): 351-374.
- Bodenstein, G., and H. M. Praetorius. Feature extraction from the electroencephalogram by adaptive segmentation. *Proc. IEEE* 65 (May 1977).
- Boenko, I. D., and F. G. Shakhgel 'Dyan. On the role of reflexogenic vascular zones in changes of blood coagulation during the effect of sound frequency electromagnetic field. *Fiziol. Zb. SSSR Imeni I.M. Sechen.* 54 (1968): 937–941.
- Bowart, W. H. Operation Mind Control. New York: Dell, 1978.
- Bowman, R. R. Some recent developments in the characterization and measurement of hazardous electromagnetic fields. In *Biologic Effects and Health Hazards of Microwave Radiation (Proceedings of an International Symposium, Warsaw, 15–18, Oct. 1973)*, ed. P. Czerski et al., 217–227. Warsaw: Polish Medical Publ., 1974.
- Branover, C. G., et al. A study of the behavior of the eel in natural and artificial magnetic fields and an analysis of its reception mechanism. *J. Ichthyol.* 11 (1971): 608–614.
- Brezowsky, H. and W. R. Ranscht-Froemsdorff. Herzinfarkt und Atmospherics. *Z. angew. Bader. u. Klimaheilk.* 13 (1966): 679–686. Brodeur, P. *The Zapping of America: Microwaves, Their Deadly Risk and the Coverup.* New York: W. W. Norton, 1977.
- Brown, F. Response to pervasive geophysical factors and the biological clock problems. Cold Spring Harbor Symposia on Quantitative Biology, 1960.
- Brown, F. A.. Jr. Responses of the planarian, Dugesia, and the protozoan, Paramecium, to very weak horizontal magnetic fields. *Biol. Bull.* 123 (1962): 264–281.
- ——. Responses of the planarian, Dugesia, to very weak horizontal electrostatic fields. Biol. Bull. 123 (1962): 282–294.
- —— . Some orientational influences of nonvisual, terrestrial electromagnetic fields. Ann. N.Y. Acad. Sci. 188 (1971): 224–241.
- ———, and C. S. Chow. Interorganismic and environmental influences through extremely weak electromagnetic fields. *Biol. Bull.* 144 (1973): 437–461.
- Bullock, T. H. Alternation of frequency of pacemaker nerve cells by imposed direct current. Anat. Rec. 84 (1942): 18-19.
- ——— , Conduction and transmission of nerve impulses. Ann. Rev. Physiol. 13 (1950): 261–280.
- ———. An essay on the discovery of sensory receptors and the assignment of their functions together with an introduction to electro-receptors. In *Handbook of Sensory Physiology*, ed. A. Fessard, III/3. *Electroreceptors and Other Specialized Receptors in Lower Vertebrates*, 1–12. New York: Springer-Verlag, 1974.

<sup>\*</sup>NAMRL = Naval Aerospace Medical Research Laboratory (Pensacola, Fla.).

- Bullock, T. H. Initiation of nerve impulses in receptor and central neurons. Rev. Mod. Phys. 31 (1959): 504–514.
- ———. Neuronal integrative mechanisms. In *Recent Advances in Invertebrate Physiology*, ed. B. T. Scheer, 1–20. Eugene, Ore.: University of Oregon Press, 1957.
- ——— . Problems in the comparative study of brain waves. Yale J. Biol. Med. 17 (1945): 657–679.
- ———, et al. Electrical polarization of pacemaker neurons. J. Neurophysiol. 6 (1943): 85–98.
- Burch, N., and H. I. Altschuler, eds. Behavior and Brain Electrical Activity. New York: Plenum Press, 1975.
- Callaway, E., and P. R. Harris. Coupling between cortical potentials from different areas. Science 183 (1974): 873-875.
- Campbell, D. J., and J. A. Kiernan. Mast cells in the central nervous system. Nature 210 (1966): 756-757.
- Campbell, P. A., ed. Medical and Biological Aspects of the Energies of Space. New York: Columbia University Press, 1961.
- Campbell, W. H. Geomagnetic pulsations. In *Physics of Geomagnetic Pulsations*, ed. S. Matsushita and W. H. Campbell, 821–909. New York: Academic Press, 1967.
- Carr, E. F. Anomalous alignment in the smectric phase of a liquid crystal owing to an electric field. *Phys. Rev. Lett.* 24 (1970): 807–809
- Corson, R. W. Anti-fatigue device works by creating electric field. *Product Eng.* (Feb. 13, 1967)
- Cetas, T. C. A birefringent crystal optical thermometer for measurements of electromagnetically induced heating. USNC/URSI-IEEE Meeting, University of Colorado, Boulder, Colo., October 1975.
- Changeux, J. P., et al. On the cooperativity of biological membranes. *Proc. Nat. Acad. Sci.* 57 (1967): 335–341.
- Chapman, F. W., and D. L. Jones. Observations of earth-ionosphere cavity resonances and their interpretation in terms of a two-layer ionosphere model. U.S. Nat. Bur. Stand. J. Res. Radio Sci. 68D (November 1964)
- Chapman, S. W., and W. D. Mathews. Audiofrequency spectrum of atmospherics. Nature 172 (1953): 495.
- Chatterjee, I., et al. Electromagnetic energy deposition in man for near-field exposure conditions. Second Annual Meeting, Bioelectromagnetics Society, San Antonio, Tex., Sept. 14–18, 1980.
- Childers, D. G. Evoked responses: electrogenesis, models, methodology and wavefront reconstruction and tracking analysis. *Proc. IEEE* 65 (May 1977).
- Cleary, S. F., ed. *Proceedings of the Symposium on the Biological Effects and Health Implications of Microwave Radiation*. Richmond, Va., Sept. 17–19, 1969. U.S. Dept. HEW, BRH/DBE 70-2, June 1970.
- Coate, W. B., et al. Project Sanguine Biological Effects Test Program pilot studies. Final report, Hazleton Laboratories, November 1970.
- Cohen, D. Magnetic fields of the human body. Phys. Today (August 1975): 35-43.
- ———. Magnetoencephalography: Detection of the brain's electrical activity with a superconducting magnetometer. Science 175 (1972): 664-666.
- ——— . Magnetoencephalography: Evidence of magnetic fields produced by alpha-rhythm currents. *Science* 161(1968): 784–786.
- ———. and E. Givler. Magnetomyography: Magnetic fields around the human body produced by skeletal muscles. *Appl. Phys. Lett.* 21 (1972): 114–116.
- ——, et al. Magnetocardiograms taken inside a shielded room with a superconducting point-contact. *Appl. Phys. Lett.* 16 (1970): 278–280.
- Cohn, T. E. Receiver operating characteristic analysis of sensitivity in neural systems. Proc. IEEE 65 (May 1977).
- [———.] Compilation of Navy Sponsored ELF Biomedical and Ecological Research Reports, vols. I, II (February 1975), vol. III (January 1977). Bethesda, Md.: Naval Medical Research and Development Command, February 1975.

- Committee on Biosphere Effects of Extremely Low-Frequency Radiation. Biologic effects of electric and magnetic fields associated with proposed Project Seafarer. Report of the Committee, Division of Medical Sciences, Assembly of Life Sciences, National Academy of Science, 1977.
- Cone, R. A. Transductive coupling in the visual system. In *Functional Linkage in Biomolecular Systems*, ed. F. O. Schmitt, D. M. Schneider, and D. M. Crothers, 234–246. New York: Raven Press, 1975.
- Cooke, J., and E. C. Zeeman. A clock and wavefront model for control of the number of repeated structures during animal morphogenesis. *J. Theor. Biol.* 58 (1976): 455–476.
- Cope, F. W. Biological sensitivity to weak magnetic fields due to biological superconductive Josephson junctions? *Physiol. Chem. Phys.* 5 (1973): 173–176.
- ————. Evidence from activation energies for superconductive tunneling in biological systems at physiological temperatures. *Physiol. Chem. Phys.* 3 (1971): 403–410.
- Magnetoelectric charge states of matter-energy, a second approximation. Part II: Magnetoelectrets as possible evidence of magnetoelectric dipoles in solids, and as a possible mechanism for biological effects of magnetic fields. *Physiol. Chem. Phys.* 11 (1973): 461–463.
- ———. Superconductive Josephson junctions—A possible mechanism for detection of weak magnetic fields and of microwaves by living organisms. In *Magnetic Field Effect on Biological Systems*, ed. T. S. Tenforde. New York: Plenum Press, 1978.
- Crane, J. S., and H. A. Pohl. Theoretical models of cellular dielectrophoresis. J. Theor. Biol. 37 (1972): 15-41.
- Creutzfeldt, O. D., et al. Relations between EEC phenomena and potentials of single cortical cells. II Spontaneous and convulsoid active. *Electroencephalog. Clin. Neurophysiolog.* 20 (1966): 19–37.
- Crosby, E. C., et al. Correlative Anatomy of the Nervous System. New York: Macmillan, 1962.
- Csaba, G. Regulation of mast-cell formation. Budapest: Akademiai Kiado, 1972.
- Czerski, P. Experimental models for the evaluation of microwave biological effects. Proc. IEEE 63 (1975): 1540-1544.
- ———. Influence of microwaves on the hematopoietic system with particular reference to the lymphocyte. *Ann. N.Y. Acad. Sci.* 247 (1975): 232–242.
- ————, et al. Influence of microwave radiation on the hematopoietic system. In *Biologic Effects and Health Hazards of Microwave Radiation (Proceedings of an International Symposium, Warsaw, 15–18 Oct. 1973)*, ed. P. Czerski et al., 67–74. Warsaw: Polish Medical Publishers, 1974.
- ———, et al. Microwave irradiation and the circadian rhythm of bone marrow cell mitosis. *J. Microwave Power* 9 (1974): 31–37.
- Damaschke, V. K., and G. Becker. Korrelation der Atmungsintensität von Termitgen zu Aenderungen der Impulsfolgefrequenz der Atmospherics. *Z. Naturforschg.* 19 (1964): 157–160.
- Davidson, R. O. Methods in Nonlinear Plasma Theory. New York: Academic Press, 1972.
- Davis, A. R., and W. C. Rawls, Jr. The Magnetic Effect. Pompano Beach, Fla.: Exposition Press, 1980.
- Davydov, A. S. Biology and quantum mechanics. Kiev: Nauka, 1979.
- ———. Nonlinear vibrational phenomena in biology. Academy of Science, Ukrainian SSR, Institute for Theoretical Physics, Preprint ITP-79-69E, 1979.
- ———. Solitons as energy carriers in biological systems. Studia Biophys. 62 (1977): 1–8.
- ————. Solitons in molecular systems. *Phys. Scripta* 20 (1979): 387–334.
- De Felice, L. J., and R. L. De Haan. Membrane noise and intercellular communication. *Proc. IEEE* 65 (May 1977).
- de la Warr, G. W. Biomagnetism. Oxford: de la Warr Laboratories, 1967.

- de Lorge, J. O. Behavior and temperature in rhesus monkeys exposed to extremely low frequency-low intensity magnetic fields. NAMRL, Report no. 1203, May 1974.
- ————. Effects of magnetic fields on behavior in nonhuman primates. In Magnetic Field Effect on Biological Systems, ed. T. S. Tenforde. New York: Plenum Press, 1978.
- ————. Operant behavior of rhesus monkeys in the presence of extremely low frequency-low intensity magnetic and electric fields: Experiment 1. NAMRL, Report no. 1115, 1972.
- ----: Experiment 2. NAMRL, Report no. 1179, March 1973.
- ----: Experiment 3. NAMRL, Report no. 1179, November 1973.
- ———. A psychobiological study of rhesus monkeys exposed to extremely low-frequency-low intensity magnetic fields. NMRL, Report no. 1203, May 1974.
- ———. and J. D. Grissett. Behavioral effects in monkeys exposed to extremely low frequency electromagnetic fields. *Int. J. Biometeorol.* 21 (1977): 357–365.
- ————. and M. J. Marr. Operant methods assessing the effects of ELF electromagnetic fields. In *ELF and VLF Electromagnetic Field Effects*, ed. M. A. Persinger, 145–175. New York: Plenum Press, 1974.
- Dern, H., and J. B. Walsh. Analysis of complex waveforms. In *Physical Techniques in Biological Research*, ed. W. L. Nastuk, vol. VI, chap. 3. New York: Academic Press, 1963.
- Devyatkov, N. D. Influence of millimeter-band electromagnetic radiation on biological objects. *Sov. Phys. Usp.* 16 (1974): 568–574. Transl.
- Dmitriev, V. G., et al. Nonlinear perception of infrared radiation in the 800–1355 nm range with human eye. *Sov. J. Quantum Electron*. 9 (1979): 475–479. Transl.
- Doty, R. W. Electrical stimulation of the brain in behavioral context. Ann. Rev. Psychol. 20 (1969): 289-320.
- Dowling, J. E., et al. The interplexiform cell: A new type of retinal neuron. Invest. Ophthalmol. 15 (1976): 919-926.
- Drago, G. P., and S. Ridella. A cell electrical model. Second Annual Meeting, Bioelectromagnetics Society, San Antonio, Tex., Sept. 14–18, 1980.
- Dropp, M. M. Mast cells in the mammalian brain. Am. Zoologist 13 (1973): 514.
- ——— . Mast cells in the mammalian brain. I: Distribution. Acta Anat. 94 (1976):1–21.
- Dubrov, A. P. The Earth's Magnetic Field and Life. Ed. Yu. A. Kholodov. Leningrad: Gidrometeoizdat, 1974.
- Dumanskij, J. D., and M. G. Sandala. The biologic and hygienic significance of electromagnetic fields of superhigh and ultrahigh frequencies in densely populated areas. *Biologic Effects and Health Hazards of Microwave Radiation (Proceedings of an International Symposium, Warsaw, Oct. 15–18, 1974)*. Warsaw: Polish Medical Publishers, 1974.
- Durfee, W. A., et al. Extremely low frequency electric and magnetic fields in domestic birds. Technical Report, Phase I (Continuous Wave), University of Rhode Island, March 1975.
- Durney, C. H., et al. Qualitative explanations of near-field sar characteristics based on experimental and theoretical observations. Second Annual Meeting, Bioelectromagnetics Society, San Antonio, Tex., Sept. 14–18, 1980.
- Eccles, J. C. The Physiology of Synapses. Berlin: Springer-Verlag, 1964.
- Einaudi, F., and J. R. Wait. Analysis of the excitation of the earth-ionosphere waveguide by a satellite-borne antenna. Pts. I and II. *Can. J. Phys.* 49, (1971): 1452–1460.
- Einolf, C. W., and E. I. Carstensen. Low frequency dielectric dispersion in suspensions of ion-exchange resins. *J. Phys. Chem.* 75 (1971): 1091–1099.
- Eisenberg, D., and W. Kauzmann. The Structure and Properties of Water. Oxford: Clarendon Press, 1969.
- Elul, R. Dipoles of spontaneous activity in the cerebral cortex. Exp. Neurol. 6 (1962): 285-299.

--- . Relation of neuronal waves to EEG. In A. K. Katchalsky, V. Rowland, and R. Blumenthal, Dynamic Patterns of Brain Cell Assemblies, 97-101. Cambridge, Mass.: MIT Press, 1974. Emlen, S. T. Can birds obtain directional information from the earth's magnetic field? Am. Zoologist 7 (1967): 806. Enright, J. T. Heavy water slows biological timing processes. Z. vergl. Physiol. 72 (1971): 1-16. Estes, W. K., and B. F. Skinner. Some quantitative properties of anxiety. J. Exp. Psychol. 29 (1941): 390-400. Faber, D. F., and H. Korn. A neuronal inhibition mediated electrically. Science 179 (1973): 577-578. Fife, P. C. Asymptotic analysis of reaction-diffusion wave fronts. Rocky Mountain J. Math. 7 (1977): 389-415. . Stationary patterns for reaction-diffusion equations. In Nonlinear Diffusion, ed, W. E. Fitzgibbon and H. F. Walker, 81-121. San Francisco: Pitman, 1977. Finkelstein, D., and J. Powell. Earthquake lightning. Nature 228 (1970): 759-760. Fischer, W. H., et al. Laboratory studies of fluctuating phenomena. Int. J. Biometeorol. 12 (1968): 15-19. Flanagan, W. F., et al. Non-metallic electrode system for recording EEG and ECC in electromagnetic fields. Physiol. and Behav. 8 (1977): 531. Formanchk, V. C., and A. K. Valentino. An improved ELF electric field probe. Technical Memorandum no. 2, HTR no. E6249, March 1974. HTRI, 1825 K St., N.W., Washington, DC. Frankenhauser, B., and A. L. Hodgkin. The action of calcium on the electrical properties of squid axons. J. Physiol. 137 (1957): 218-244. Frey, A. H. Auditory system response to radio frequency energy. Aerospace Med. 32 (1961): 1140–1142. ——. Behavioral biophysics. *Psychol. Bull.* 63 (1965): 322–337. —. Behavioral effects of electromagnetic energy. In Symposium on Biological Effects and Measurement of Radio Frequency/Microwaves, ed. D. Hazzard, 11-22. HEW Publ. (FDA) 77-8026, July 1977. — Brain stem evoked responses associated with low intensity pulses of UHF energy. J. Appl. Physiol. 23 (1967): 984-988. Human auditory system response to modulated electromagnetic energy. J. Appl. Physiol. 17 (1962): 689-692. - , and S. R. Feld. Avoidance by rats of illumination with low power nonionizing electromagnetic energy. J. Comp. Physiol. Psychol. 89 (1975): 183-188. Frey, K. W., and I. Goeke. Wetter und Radiospeicherung der Schilddruse. Aertzliche Forschg. 23 (1969): 373-375. Friede, R. L. Topographic Brain Chemistry. New York: Academic Press, 1966. Friedman, H., and R. J. Carey. Biomagnetic stresser effects in primates. Physiol. and Behav. 9 (1972): 171-173. — The effects of magnetic fields upon rabbit brains. *Physiol. and Behav.* 4 (1969): 539–541. —, and H. A. Taub. The transcephalic DC potential and reaction time performance. *Psychophysiol.* 5 (1969): 504-509. — , et al. Effect of magnetic fields on reaction time performance. *Nature* 213 (1967): 949–956. -, et al. Geomagnetic parameters and psychiatric hospital admissions. Nature 200 (1963): 626-628. Friend, A. W., et al. Low frequency electric field induced changes in the shape and motility of amoebas. Science 187 (1975): 357-359.

Elul, R. Fixed charge in the cell membrane, J. Physiol. 189 (1967): 351–365.

————. The genesis of the EEG. Int. Rev. Neurobiol. 15 (1972): 227–272.

- ———. Long-range coherence and energy storage in biological systems. Int. J. Quantum Chem. 2 (1968): 641-649.
- ———. Long-range coherence and the action of enzymes. *Nature* 228 (1970): 1093.
- ———. Low frequency vibrations of macro molecules. *Phys. Lett.* 44A (1973): 385.
- ———. Possibilities of long- and short-range electric interactions of biological systems. In *Brain Interactions with Weak Electric and Magnetic Fields*, M.I.T. Neuroscience Research Program Bulletin, 1976.
- ————. Selective long-range dispersion forces between large systems. *Phys. Lett.* 29A (1972): 153–154.
- Furchtgott, E. Behavioral effects of ionizing radiations. Psychol. Bull. 60 (1963): 157-199.
- Furedi, A. A., and I. Ohad. Effects of high-frequency electric fields on the living cell. I. Behaviour of human erythrocyte in high frequency electric fields and its relation to their age. *Biochem. Biophys. Acta* 71 (1964): 1–8.
- Galejs, J. ELF and VLF propagation for models of a perturbed ionosphere. Radio Sci. 5 (1970): 1041-1044.
- ——— . Schumann resonances. U.S. Nat. Bur. Stand. J. Res. Radio Sci. 69D (August 1965).
- ———. Terrestrial extremely low frequency propagation. In *Natural Electromagnetic Phenomena below 30 Kc/s*, ed. D. F. Bleil, 205–260. New York: Plenum Press, 1964.
- ————. Terrestrial Propagation of Long Electromagnetic Waves. Elmsford, N.Y.: Pergamon Press, 1972. [See pp. 129–138.]
- Gardiner-Medwin, A. R. Membrane transport to solute migration affecting the brain cell microenvironment. *Neurosci. Res. Prog. Bull.* 18 (1980): 208–226.
- Gauquelin, M., and F. Gauquelin. A possible hereditary effect on time of birth in relation to the diurnal movement of the moon and the nearest planets: It's relationship with geomagnetic activity. *Int. J. Biometeorol.* 11 (1967): 341.
- Gavalas-Medici, R. [J.], and S. R. [Day-]Magdaleno. An evaluation of possible effects of 45 Hz, 60 Hz and 75 Hz electric fields on neurophysiology and behavior of monkeys. Phase 1. Continuous wave. ONR Technical Report Control no. N00014-69-A-0200-4037, National Technical Information Service no. AD-A008-404/6GA, Springfield, Va., April 1975.
- ———, and S. R. Day-Magdaleno. Extremely low frequency, weak electric fields affect schedule-controlled behaviour of monkeys. *Nature* 261 (1976): 256–258.
- Gavalas [-Medici], R. J., et al. Effect of low-level low frequency electric fields on EEG and behavior in Macaca nemestrina. *Brain Res.* 18 (1970): 491–501.
- Geacintov, N. E. Orientation of biological membranes and cells in magnetic fields. In *Magnetic Field Effect on Biological Systems*, ed. T. S. Tenforde. New York: Plenum Press, 1978.
- Geel, S. E., and P. S. Timiras. Influence of neonatal hypothyroidism and of thyroxine on the acetylcholinesterase and cholinesterase activities in the developing central nervous system of the rat. *J. Endocrinol.* 80 (1967): 1069–1074.
- Gibson, R. S., and W. F. Moroney. The effect of extremely low magnetic fields on human performance: A preliminary study. NAMRI, Report no. 1175, August 1974.
- Glansdorff, P., and I. Prigogine. *Thermodynamic Theory of Structure, Stability and Fluctuations.* New York: Wiley Interscience, 1971. [See pp. 61–95.]
- Gollender, H. Eosinophil and avoidance correlates of stress in anterior cingulate cortex lesioned rats. *J. Comp. Physiol. Psychol.* 64 (1967): 40–48.
- Goodman, E. M., et al. Effects of extremely low frequency electromagnetic fields on Physarum polycephalum. *Radiat. Res.* 66 (1976): 531-540.

- Graf, E. R., et al. Radiation noise energy and human physiology in deep space. American Astronautical Society, 1976 National Symposium: Saturn v. Apollo, and Beyond, (EN-2) (1976): 1–18.
- Grant, E. H. The structure of water neighboring proteins, peptides and amino acids as deduced from dielectric measurements. *Ann. N.Y. Acad. Sci.* 125 (1965): 418–427.
- Green, D. E. A framework of principles for the unification of bioenergetics. Ann. N.Y. Acad. Sci. 227 (1974): 6-45.
- Green, J. D., et al. Rabbit EEG "theta" rhythm, its anatomical source and relation to activity in single neurons. *J. Neurophysiol.* 23 (1962): 403–420.
- Green, J. P. Histamine. In *Handbook of Neurochemistry*, ed. A. Lajtha, vol. IV, *Control Mechanisms in the Nervous System*, 221–250. New York: Plenum Press, 1970.
- Grewal, G. S., et al. Measurements of RF absorption in biological models due to near-field exposure. Second Annual Meeting, Bioelectromagnetics Society, San Antonio, Tex., Sept. 14–18, 1980.
- Grissett, J. D. Biological effects of electric and magnetic fields associated with ELF communications systems. *Proc. IEEE* 68 (January 1980).
- ———. Exposure of man to a simulated lunar environment, physiological and nervous system effects. Diss., Virginia Commonwealth University, Richmond, Va., 1970.
- ————. Exposure of squirrel monkeys for long periods to extremely low-frequency magnetic fields: Central-nervous-system effects as measured by reaction time. NAMRL, Report no. 1146, October 1971.
- ————, and J. de Lorge. Central-nervous-system effects as measured by reaction time in squirrel monkeys exposed for short periods to extremely low-frequency magnetic fields. NAMRL, 1971.
- Grodsky, I. T. Neuronal membrane, a physical synthesis. Math. Biosci. 28 (1976): 191-219.
- ———. Possible physical substrates for the interaction of electromagnetic fields with biological membranes. *Ann. N.Y, Acad. Sci.* 247 (1975): 117–123.
- Guy, A. W. Biophysics-energy absorption and distribution. AGARD Lecture Series 78, Radiation Hazards (Non-ionizing Radiations—Biological Effects and Safety Considerations, September 1975.
- ---- A note on EMP safety standards. IEEE Trans. Biomed. Eng. 22 (1975): 464-467.
- ————. Quantitation of induced electromagnetic field patterns in tissue and associated biologic effect. In *Biologic Effects and Health Hazards of Microwave Radiation (Proceedings of an International Symposium, Warsaw, 15–18 Oct. 1973)*, ed. P. Czerski et al., 203-316. Warsaw: Polish Medical Publishers, 1974.
- ————, et al. Determination of power absorption in man exposed to high frequency electromagnetic fields by thermographic measurements of scale models. *IEEE Trans. Biomed. Eng.* 23 (1976): 361–371.
- ———, et al. Electrophysiological effects of electromagnetic fields on animals. In Fundamental and Applied Aspects on Non-ionizing Radiation (Proceedings of the Rochester International Conference on Environmental Toxi-city, Rochester, N.Y., 5–7 June 1974), ed. S. M. Michaelson et al., 167–211. New York: Plenum Press, 1975.
- Hagiwara, S., et al. Physiological properties of electroreceptors of some gymnotids. J. Neurophysiol. 25 (1962): 430-449.
- Hallgren, R. Inductive neural stimulator. IEEE Trans. Biomed. Eng. 20 (1973): 470-472.
- Hamer, J. R. Biological entrainment of the human brain by low-frequency radiation. Northrop Space Laboratories, Report no. NSL 65–199, 1965.
- ————. Effects of low level, low frequency electric fields on human reaction time. Commun. Behav. Biol. 2 (1968): 217-222.
- ———. Effects of low-level, low-frequency electric fields on human time judgment. *Proc. Fifth Biometeorol. Cong.*, ed. S. W. Tromp and W. W. Weihe, 129. Amsterdam: Springer-Verlag, 1969.

- Hansen, K, M. Some observations with a view to possible influence of magnetism upon the human organism. *Acta Med. Scand.* 97 (1938): 339-364.
- Hansson, H.-A. Effects on nervous tissue of exposure to electromagnetic fields. In *Nonlinear Electrodynamics in Biological Systems*, ed. W. R. Adey and A. F. Lawrence, 65. New York: Plenum Press, 1984.
- Hardy, J. D. Posterior hypothalamus and the regulation of body temperature. Federat. Proc. 32 (1973): 1564-1571.
- Hauf, R., and J. Wiesinger. Biological effects of technical electric and electromagnetic VLF fields. *Int. J. Biometeorol.* 17 (1973): 213-215.
- Hazzard, D., ed. Symposium on Biologic Effects and Measurement of Radio Frequency/Microwaves. HEW Publ. (FDA), 77-8026, July 1977.
- Healey, R., and J. Reed. *The Behaviour of Slow Electrons in Gasses*. Sydney: Amalgamated Wireless, 1941. [On the Luxembourg effect.] Heinmets, F., and A. Herschman. Considerations on the effects produced by superimposed electric and magnetic fields in biological systems and electrolytes. *Phys. Med. Biol.* 5 (1961): 271–288.
- Herin, R. A. Electroanesthesia: A review of the literature (1819-1965). Activ. Nervosa Superior 10 (1968): 439-454.
- Hines, J. N. Antennas. In Radio Engineering Handbook, 5th ed., ed. K. Henney, chap. 20, p. 1. New York: McGraw Hill, 1959.
- Hirsch, F. G., D. R. McGiboney, and T. D. Harnish. The physiologic consequences of exposure to high density pulsed electromagnetic energy. *Int. J. Biometeorol.* 12 (1968): 263–270.
- Hodgkin, A. L., and A. G. Huxley. A quantitative description of membrane current and its application to conduction and excitation in nerve. *J. Physiol.* (London) 234 (1952): 500–544.
- Holubar, J. The Sense of Time. Cambridge, Mass.: M.I.T. Press, 1969.
- Holzer, R. E., and O. C. Deal. Low audio-frequency electromagnetic signals of natural origin. Nature 177 (1956): 536-537.
- Hong, F. T. Mechanisms of magnetic field interactions with retinal rods. In *Magnetic Field Effect on Biological Systems*, ed. T. S. Tenforde. New York: Plenum Press, 1978.
- Hughes, H. C. On the directional dependency of "slow trail" extremely low-frequency atmospheric wave-forms. *J. Atmos. Terr. Phys.* 29 (1967): 545–552.
- Hunt, E. L., et al. Behavioral effects of pulsed microwave radiation. In *Biological Effects of Non-ionizing Radiation*, ed. P. D. Tyler, 440–453. New York: New York Academy of Science, 1975.
- Hyden, H. A calcium-dependent mechanism for synapse and nerve cell membrane modulation. *Proc. Nat. Acad. Sci.* 71 (1974): 2965–2968.
- ———. Changes in brain protein during learning. In *Macromolecules and Behaviour*, ed. G. B. Ansell and P. B. Bradley, 3–26. London: MacMillan, 1973.
- Ibrahim, M. Z. M. The mast cells of the mammalian central nervous system. 1. Morphology, distribution, and histochemistry. *J. Neurol. Sci.* 21 (1974): 431–478.
- ————. The mast cells of the mammalian nervous system. 2. The effect of proton irradiation in the monkey. *J. Neurol. Sci.* 21 (1974): 479–499.
- Illinger, K. H. Interaction between microwave and millimeter-wave electromagnetic fields and biologic systems: Molecular mechanisms. In *Biological Effects and Health Hazards of Microwave Radiation (Proceedings of an International Symposium, Warsaw, 15–18 Oct. 1973)*, ed. P. Czerski, et al., 160–172. Warsaw: Polish Medical Publishers, 1974.
- ———. Molecular mechanisms for microwave absorption in biological systems. In *Symposium Proceedings: Biological Effects and Health Implications of Microwave Radiation*, BRH/DBE 70-2, PB 193898, 112–115. Rockville, Md.: 1970.
- Jacobs, J. A. Geomagnetic Micropulsations. New York: Springer-Verlag, 1970.
- Jaggard, D. L., and J. L. Lords. Cellular effects: Millimeter waves and Raman spectra—Report of a panel discussion. *Proc. IEEE* 68 (January 1980).

Jasper, H. H., and C. Stefanis. Intracellular oscillatory rhythms in pyramidal tract neurons. Electroencephalog. Clin. Neurophysiol. 18 (1965): 541-553. Johnson, C. C., and A. W. Guy. Nonionizing electromagnetic wave effects in biological materials and systems. Proc. IEEE 60 (1972): - . and M. L. Shore, eds. Biological Effects of Electromagnetic Waves: Selected Papers of the USNC/USRI Annual Meeting, Boulder, Colo., 20-23 Oct. 1975, vols. I-II. HEW Publication no. (FDA) 77-8010, 1976. , et al. Fiberoptic liquid crystal probe for absorbed radio-frequency power temperature measurement in tissue during irradiation. Ann. N.Y. Acad. Sci. 247 (1975): 527-531. Jones, R. W. Biological control mechanisms. In Biological Engineering, ed. H. P. Schwan, 87-203. New York: McGraw-Hill, 1969. Justesen, D. R. and A. W. Guy, eds. Biological effects of electromagnetic waves. Radio Sci.12, Suppl. 6(s) (1977). Kaezmarek, L. K. Cation binding models for the interaction of membranes with EM fields. M.I.T. Neurosci. Res. Prog. Bull. 15 (1977): - Frequency sensitive biochemical reactions. *Biophys. Chem.* 4 (1976): 249–252. — . and W. R. Adey. The efflux of 4,5 Ca 2+ and (3H)-aminobutyric acid from cat cerebral cortex. *Brain Res.* 63 (1973): 331-342. —. Factors affecting the release of [14C] taurine from cat brain: The electrical effects of taurine on normal and seizure prone cortex. Brain Res. 76 (1974): 83-94. — and———. Some chemical and electrophysiological effects of glutamate in cerebral cortex. J. Neurobiol 5 (1974): 231-241. -, and----. Weak electric gradients change ionic and transmitter fluxes in cortex. *Brain Res.* 66 (1974): 537–540. Kaiser, F. Coherent oscillations in biological systems. II. Limit cycle collapse and the onset of traveling waves in Frohlich's brain wave mode. Z. Naturforschg. 33a (1978): 418-431. Kalmijn, A. J. The detection of electric fields from inanimate and animate sources other than electric organs. In Handbook of Sensory Physiology, ed. A. Fessard, III. 3. Electroreceptors and Other Specialized Receptors in Lower Vertebrates, 147-200. New York: Springer-Verlag, 1974. -. The electric sense of sharks and rays. J. Exp. Biol. 55 (1971): 371-383. — . Electro-orientation in sharks and rays: Theory and experimental evidence. Scripps Institution of Oceanography Reference Series, Contract no. 73-39, 1-22, 1973.

Kataoka, K., and E. DeRobertis. Histamine in isolated small nerve endings and synaptic vesicles of rat brain cortex. J. Pharmacol. Exp.

Katchalsky, A. Polyelectrolytes and their biological interaction. In Connective Tissue: Intercellular Macromolecules (Proceedings of a

————, et al. Normal fluctuations in the earth's magnetic field influence pigeon orientation. *J. Comp. Physiol.* 95 (1974): 95–103. Keilmann, F., and W. Grundler Nonthermal resonant action of millimeter microwaves on yeast growth. In *Nonlinear Electrodynamics* 

Symposium Sponsored by the New York Heart Association), 9–42. Boston: Little, Brown, 1964. Kazhinskiy, B. B. Biological radio communication. USAF, Foreign Technology Division, FTD-TT-62-1923/1+2, 1962.

in Biological Systems, ed. W. R. Adey and A. F. Lawrence, 59. New York: Plenum Press, 1984.

Kelsall, M. A., and P. Lewis. Mast cells in the brain. Federat. Proc. 23 (1964): 1107–1108.

Keeton, W. T. Magnets interfere with pigeon homing. Proc. Nat. Acad. Sci. 68 (1971): 102-106.

- Electroperception in sharks and rays. Nature 212 (1966): 1232-1233.

Ther. 156 (1967): 114-125.

- Kendig, J. J. Anesthetics and pressure in nerve cells. In *Molecular Mechanism of Anesthesia*, ed. B. R. Fink, vol. 2. New York: Raven Press, 1981.
- Kevanishvili, G. S., and T. G. Zhgenti. Primary mechanism of electromagnetic field effect on living organisms. *Izv. Akad. Nauk. S.S.R.* 62 (1971): 37–40.
- Keynes, R. D. Evidence for structural changes during nerve activity and their relation to the conduction mechanism. In *The Neurosciences: Second Study Program*, ed. F. O. Schmitt, 707–714. New York: Rockefeller University Press, 1970.
- Kholodov, Y. The effect of electromagnetic and magnetic fields on the central nervous system. NASA TT F 465, 1967. Trans.
- ————. Effects on the central nervous system. In *Biological Effects of Magnetic Fields*, ed. M. Barnothy, 196–200. New York: Plenum Press, 1964.
- ———. Magnetism in biology. Translation no. JPRS 60737. Washington, DC.: Joint Publication Research Service, Department of Commerce, 1973.
- Kiernan, J. A. A comparative survey of the mast cells of the mammalian brain. J. Anat. 121 (1976): 303–311.
- ———. Degranulation of mast cells following antidromic stimulation of cutaneous nerves. J. Anat. 111 (1971): 349–350.
- Kimeldorf, D. J., and E. L. Hunt. Ionizing Radiation: Neural Function and Behaviour, 261–263. New York: Academic Press, 1965.
- King, R. W. P., and T. T. Wu. The Scattering and Defraction of Waves. Cambridge, Mass.; Harvard University Press, 1959.
- Kirkwood, J. G., and J. B. Shumaker. The influence of dipole moment fluctuations on the dielectric increment of proteins in solution. *Proc, Nat. Acad. Sci.* 38 (1952): 855–862.
- Kirschbaum, R. N. Increasing growth rates and livability of mice with an ELF. Second Annual Meeting, Bioelectromagnetics Society, San Antonio, Tex., Sept. 14–18, 1980.
- ———, and E. W. Kienholz. Increasing chicken growth rates with niobium and magnetic fields. Second Annual Meeting, Bioelectromagnetics Society, San Antonio, Tex., Sept. 14–18, 1980.
- Kolin, A., et al. Stimulation of irritable tissues by means of an alternating magnetic field. *Proc. Soc. Exp. Biol. Med.* 102 (1959): 251–252.
- König, H. L. Behavioral changes in human subjects associated with ELF electric fields. In *ELF and VLF Electromagnetic Field Effects*, ed. M. A. Persinger. New York: Plenum Press, 1974.
- ———. Biological effects of extremely low frequency electrical phenomena in the atmosphere. *Interdiscip. Cycle Res.* 2 (1971): 317–323.
- ————. ELF and VLF signal properties: Physical characteristics. In *ELF and VLF Electromagnetic Field Effects*, ed. M. A. Persinger, 9–34. New York: Plenum Press, 1974.
- ———. Environmental effects of atmospheric electric processes of very low frequency. USAF, Cambridge Research Laboratory, AF 19(628)-3880 T-G-232, January 1965. Transl.
- Kopell, N. Reaction-diffusion equations and pattern formation. In *Studies in Mathematical Biology*, ed. S. A. Levin, 191–205. Washington, D.C.: Mathematics Association of America, 1978.
- ———. Waves, shocks, and target patterns in an oscillating chemical reagent. In *Nonlinear Diffusion*, ed. W. E. Fitzgibbon and H. F. Walker, 129–154. San Francisco Pitman, 1977.
- Kornberg, H. A., et al. Health effects of occupational exposure to ELF fields. Second Annual Meeting, Bioelectromagnetics Society, San Antonio, Tex., Sept. 14–18, 1980.
- Kouwenhoven, W. B., et al. Medical evaluation of men working in alternating current electric fields. *IEEE Trans. Power Appar. Systems* PAS-86, 4 (1967): 506.
- Kreutzberg, G. W., ed. Physiology and Pathology of Dendrites. New York: Raven Press, 1975.

- Krippner, S. Human Possibilities. New York: Doubleday Anchor Books, 1980.
- Kritikos, H. N., and H. P. Schwan. Hot spots generated in conducting spheres by electromagnetic waves: Biological implications. *IEEE Trans. Biomed. Eng.* 19 (1972): 53–58.
- ———, et al. Effects of RF fields on nervous activities. *Proceedings, Microwave Power Symposium*, 54–65, Waterloo, Ontario, 1975. Krumpe, P. E., and M. S. Tockman. Evaluation of the health of personnel working near Project Sanguine beta test facility from 1971 to 1972. USN, Naval Medical Research Unit no. 4, Great Lakes, Ill., December 1972.
- Krushausl, J. A. Solitons in physics. In *Solitons and Condensed Matter Physics*, ed. A. R. Bishop and T. Schneider, 22–26. Berlin: Springer-Verlag, 1978.
- Labes, M. M. Magnetic field coupling with liquid crystalline structures. In Magnetic Field Effect on Biological Systems, ed. T. S. Tenforde. New York: Plenum Press, 1978.
- Lagunoff, D. The mechanism of histamine release from mast cells. Biochem. Pharmacol. 21 (1972): 1889-1896.
- Lakhtakia, A., et al. Near-field absorption in prolate spheroidal models exposed to a small loop antenna of arbitrary orientation. Second Annual Meeting, Bioelectromagnetics Society, San Antonio, Tex., Sept. 14–18, 1980.
- Large, D. B., and J. R. Wait. Theory of electromagnetic coupling phenomena in the earth-ionosphere cavity. *J. Geophys. Res.* 73 (1968): 4335–4362.
- Lawrence, A. F., and W. R, Adey. Non-linear wave mechanisms in tissue-electromagnetic field interactions. DOE, Contract Report no. DE-A101-79 ET, 1979.
- Lawrence, G. Electronics and brain control. Popular Electron. 4 (July 1973): 65.
- Lawrence, J. H., et al., eds. Advances in Biological and Medical Physics, vols. 16-17. New York: Academic Press, 1978.
- Lefever, R., and J. L. Denaubourg. On the changes in conductance and stability properties of electrically excitable membranes during voltage-clamp experiments. *Adv. Chem. Phys.* 29 (1975): 349–374.
- Lehninger, A. L. The neuronal membrane. Proc. Nat. Acad. Sci. 60 (1968): 1069-1080.
- Lewis, A. J. A report by A. J. Lewis, Ph.D. Document EW-76-011, Supplemental Report Contract no. XG-4208 (54-20) 75S, January 1976. [Report on Soviet parapsychology, the work of Gennady Sergeyev, magnetic field effects (ELF), psychotronics, bioplasma research, etc.]
- Lieber, A. L., and C. R. Sherin. Homicides and the lunar cycle: Toward a theory of lunar influences on human emotional disturbances. *Am. J. Psychiat.* 129 (1972): 101–106.
- Lin, J. C., et al. Microwave selective brain heating. J. Microwave Power 8 (1973): 275-286.
- Lindstrom, L. H., and R. I. Magnusson. Interpretation of myoelectric power spectra: A model and its applications. *Proc. IEEE* 65 (May 1977).
- Ling, G. N., et al. The physical state of solutes and water in living cells according to the association-induction hypothesis. *Ann. N.Y. Acad. Sci.* 204 (1973): 6–47.
- Lin-Liu, S., and W. R. Adey. Effect of ELF modulated 450 MHz field on calcium efflux from rat synaptosomes. Second Annual Meeting, Bioelectromagnetics Society, San Antonio, Tex., Sept. 14–18, 1980.
- Lissmann, H. W. On the function and evolution of electric organs in fish. J. Exp. Biol. 35 (1958): 156-191.
- Little, W. A. The existence of persistent states in the brain. Math. Biosci. 19 (1974): 101-120.
- -----, and G. L. Shaw. A statistical theory of short and long term memory. Behav. Biol. 14 (1975): 115-133.
- Llaurado, J. G., et al. Biological and Clinical Effects of Low-Frequency Magnetic and Electric Fields. New York: C C Thomas, 1974.

- Loewenstein, W. R. Cell-to-cell connections. In *Cell Interactions (Third Petit Colloquium, London, November 1971)*, ed. L. G. Silvestri, 296–298. Amsterdam: North-Holland, 1972.
   Cellular communication by permeable junctions. In *Cell Membranes: Biochemistry, Cell Biology and Pathology*, ed. G. Weissman and R. Claiborne, 105–114. New York: Hospital Practice, 1975.
   Cellular communication through membrane junctions. *Arch. Intern. Med.* 129 (1972): 299–305.
   Intercellular communication. *Sci. Am.* 22 (May 1970): 78–86.
   Intercellular communication through membrane junctions and cancer etiology. In *Membrane Transformations in Neoplasias*, ed. J. Schultz and R. E. Block, vol. 8, Miami Winter Symposia, 103–120. New York: Academic Press, 1974.
   Membrane junctions in growth and differentiation. *Federat. Proc.* 32 (1973): 60–64.
   Permeability of membrane junctions. *Ann. N.Y. Acad. Sci.* 137 (1966): 441–472.
   Permeable junctions: Permeability, formation, and genetic aspects. In *The Nervous System: The Basic Neurosciences*, ed. D. B. Tower, vol. 1, 419–426. New York: Raven Press, 1975.
  Luben, R. A., and C. D. Cain. Use of bone cell hormone response systems to investigate bioelectromagnetic effects on membranes in vitro. In *Nonlinear Electrodyamics in Biological Systems*, ed. W. R. Adey and A. F. Lawrence, 23. New York: Plenum Press,
- Ludwig, H. W. Electric and magnetic field strengths in the open and in shielded rooms in the ULF- to LF-zone. In *ELF and VLF Electromagnetic Field Effects*, ed. M. A. Persinger, 35–80. New York: Plenum Press, 1974.
- ————. A hypothesis concerning the absorption mechanism of atmospherics in the nervous system. *Int. J. Biometeorol.* 12 (1968): 93–98.
- ———. Shielding effect of materials in the ULF, ELF and VLF region. Int. J. Biometeorol. 17 (1973): 207-211.
- Lu, S., et al. Neuroendocrine and cardiodynamic response of the dog subjected to cranial exposure to 2450 Mhz (CW) microwave. *Proceedings, Microwave Power Symposium*, Waterloo, Ontario, 1975.
- ———, et al. Thermogenic and cardiovascular regulation in dogs cranially exposed to 2450 Mhz (CW) microwave. *Proc. IEEE-S-MTT (Microwave Symposium), Atlanta, Ga., June 12–14, 1974.*
- Lux, H. D., and P. Schubert. Some aspects of the electroanatomy of dendrites. In *Physiology and Pathology of Dendrites: Advances in Neurology*, ed. G. W. Kreutzberg, vol. 12, 29–44. New York: Raven Press, 1975.
- Maass, J. A., and M. M. Asa. Contactless nerve stimulation and signal detection by inductive transducer. *IEEE Trans. Magn.* 6 (1970): 322–326.
- McAffee, R. D. Neurophysiological effect of 3-cm microwave radiation. Am. J. Physiol. 200 (1961): 192.
- McClain, D. S., and G. M. Edelman. Surface modulation and transmembrane control. In *The Molecular Basis of Cell-Cell Interaction*, ed. R. A. Lerner and D. Bergsma, 1–28. New York: Alan R. Liss, 1978.
- McCleave, J. D., et al. Perception and effects on locomotor activity in American eels and Atlantic salmon of extremely low frequency electric and magnetic fields. Final report prepared at University of Maine for ONR, 1974.
- McConnell, H. M. Coupling between lateral and perpendicular motion in biological membranes. In *Functional Linkage in Biomolecular Systems*, ed. F. O. Schmitt, D. M. Schneider, and D. Crothers, 123–131. New York: Raven Press, 1975.
- MacGregor, R.J. A brief survey of literature relating to the influence of low intensity microwaves on nervous function. Rand Corp, Publication no. P 4397, June 1970.

- MacGregor, R. J. A direct mechanism for the influence of microwave radiation on neuroelectric potentials. Rand Corp., Publication no. P 4398, June 1970.
- ———. Intrinsic oscillations in neural networks: A linear model for the nth order loop. Rand Corp., Publication no. R 642, February 1971.
- ———. A possible mechanism for the influence of electromagnetic radiation of neuroelectric potentials. *IEEE Trans. Microwave Theor. Techn.* 21 (1979): 914–918.
- ——— . A simulation study of coincidence detection in the dendrites of a single nerve cell. Rand Corp., Publication no. RM-559-RC, December 1969.
- McLees, B. D., and E. D. Finch. Analysis of reported physiologic effects of microwave detection. *Adv. Biol. Med. Phys.* 14 (1973): 163–223.
- McPherron, R. L., C. T. Russell, and P. J. Coleman. Fluctuating magnetic fields in the magnetosphere. II. ULF waves. *Space Sci. Rev.* 13 (1972): 411–454.
- Magnusson, C. E., and H. C. Stevens. Visual sensations caused by changes in the strength of a magnetic field. *Am. J. Physiol.* 29 (1911): 124–136.
- Mahlum, D. D. Mechanisms of biomagnetic effects. In *Magnetic Field Effect on Biological Systems*, ed. T. S. Tenforde. New York: Plenum Press, 1978.
- Marha, K., et al. Electromagnetic Fields and the Life Environment. San Francisco: San Francisco Press, 1971.
- Marino, A. A., and R. O. Becker. Biological effects of extremely low frequency electric and magnetic fields: A review. *Physiol. Chem. Phys.* 9 (1977): 131–147.
- ———, et al. In vivo bioelectrochemical changes associated with exposure to extremely low frequency electric fields. *Physiol. Chem. Phys.* 9 (1977): 433–441.
- Marr, M. J., et al. The effect of low energy ELF electromagnetic radiation on operant behavior in the pigeon and the rat. Final Report, prepared at Georgia Institute of Technology for ONR, Contract no. N00014-67-0159-0009, 1973.
- Marton, J. P. Conjectures on superconductivity and cancer. Physiol. Chem. Phys. 5 (1973): 259-270.
- Mascarenhas, S. Electrets in biophysics. J. Electrostat. 1 (1975): 141-146.
- Massoudi, H., et al. Long-wavelength analysis of electromagnetic absorption in prolate spheroidal models of man and animals irradiated by a small loop antenna. Second Annual Meeting, Bioelectromagnetics Society, San Antonio, Tex., Sept. 14–18, 1980.
- Mathewson, N. S., et al. Extremely low frequency (ELF) vertical electric field exposure of rats: A search for growth, food consumption, and blood metabolite alterations. USAF. Armed Forces Radiobiology Research Institute, January 1977.
- Maxey, E. S. Critical aspects of human versus terrestrial electromagnetic symbiosis USNC/URSI Meeting, University of Colorado, Boulder, Colo., Oct. 20–23, 1975.
- Maxwell, E. L., and D. L. Stone. Natural noise fields from 1 c/s to 100 kc/s. ONR, Report prepared at Deco Electronics for ONR, Report no. 371–590, 1960.
- Medici, R. C. Methods of assaying behavioral change as a function of exposure to weak electric fields. Second Annual Meeting, Bio-electromagnetics Society, San Antonio, Tex., Sept. 14–18, 1980.
- Menzel, D. H., and W. W. Salisbury. Audio-frequency radio waves from the sun. Nature 161 (1948): 91.
- Meyer, M. E., and D. R. Lamb. Sensitivity of the pigeon to change in the magnetic field. *Psychonom. Sci.* 5 (1966): 349–350.
- Michaelson, S. M. Biological effects of microwave exposure. [Proceedings,] Medical College of Virginia Symposium, 1970.
- ———. Human exposure to non-ionizing radiation energy-potential hazards and safety standards. *Proc. IEEE* 60 (1972): 389.
- ———, et al. Effects of electromagnetic radiations on physiological responses. Aerospace Med. 38 (1967): 293–298.
- Michalke, W., and W. R. Loewenstein. Communication between cells of different type. Nature 232 (1971): 121-122.
- Milroy, W. C., ed. Biomedical aspects of nonionizing radiation. *Proceedings of a Symposium Held at the Naval Weapons Laboratory, Dahlgren, Va., 10 July 1973.*

- Milroy, W. C., et al. Electromagnetic pulse radiation: A potential biological hazard? J. Microwave Power 9 (1974): 213-218.
- Mitchell, D. C., et al. Hyperactivity and disruption of operant behavior in rats after multiple exposures to microwave radiation. *Radio Sci.* 12 (1977): 163–271.
- Mittler, S. Low frequency electromagnetic radiation and genetic aberrations. Final Report, Northern Illinois University, September 1972.
- Mohler, R., et al. A systems approach to immunology. Proc. IEEE 68 (August 1980): 964-977.
- Moseley, J. I. et al. Unit activity during focal cortical hypothermia in the normal cortex. Exp. Neurol, 37 (1972): 152-163.
- Murr, L. The biophysics of plant growth in a reversed electrostatic field. Int. J. Biometeorol. 10 (1966): 135-146.
- Nahas, G. G. Magnetic field effects on rodents. In *Magnetic Field Effects on Biological Systems*, ed. T. S. Tenforde. New York: Plenum Press, 1978.
- Nazarea, A. D. Electric fields and self-coherent patterns and structures in chemical systems: Large-scale effects and biological implications. *J. Chem. Phys.* 9 (1979): 415–449.
- Neumann, E., and K. Rosenheck. Permeability changes induced by electric impulses in vesicular membranes. *J. Membr. Biol.* 10 (1972): 279–290.
- Nicholson, C. Brain-cell microenvironment as a communication channel. In *The Neurosciences: Fourth Study Program*, ed. F. O. Schmitt and F. C. Woden, 457–476. Cambridge, Mass.: MIT Press, 1977.
- ———. Dynamics of the brain cell microenvironment. Neurosci. Res. Prog. Bull. 18 (1980): 275–289.
- Nicolas, G., and I. Prigogine. Self-Organization in Nonequilibrium Systems. New York: John Wiley, 1977.
- Nunez, W., and M. Gershon. Species differences in mast cells of the thyroid gland. Endocrinol. 92 (1973): 152-159.
- Ochs, S. Elements of Neurophysiology. New York: John Wiley, 1965.
- Ogawa, T., et al. Observations of natural ELF and VLF electromagnetic noises using ball antennas. *J. Geom. Geoelectr.* 18 (1966): 443–454.
- O'Konski, C. T. Electric properties of macromolecules. V. Theory of ionic polarization in polyelectrolytes. *J. Phys. Chem.* 64 (1960): 605–619
- O'Neil, J. J. Prodigal Genius: The Life of Nikola Tesla. New York: I. Washburn, 1944.
- Orgel, A. R., and J. C. Smith. Test of the magnetic theory of homing. Science 120 (1954): 891-892.
- Orme, J. E. Time, Experience, and Behavior. New York: American Elsevier, 1969.
- Ormenui, I. Possible effect of ELF range atmospherics of 3-cps range on traffic accidents in a metropolitan area in Hungary. *Int. J. Biometeorol.* 16 (Suppl.) (1972): 93–94.
- Ossenkopp, K. P. Maturation and open-field behavior in rats exposed prenatally to an extremely low frequency rotating magnetic field. *Psychol. Report* 30 (1972): 371–374.
- ———, and M. D. Ossenkopp. Self-inflicted injuries and the lunar cycle: A report. *J. Interdiscip. Cycle Res.* 4 (1973): 337–348.
  ———, and J. Shapiro. Effects of prenatal exposure to a 0.5 Hz low-intensity rotating magnetic field on white Peking ducklings. *Am. Zool.* 12 (1972): 650.
- ————, et al. Prenatal exposure to an extremely low-intensity rotating magnetic field and increase in thyroid and testicle weights in rats. *Devel. Psychobiol.* 5 (1972): 275–285.
- Oncley, J. L. The electric movements and relaxation times of proteins as measured from their influence upon the dielectric constants of solutions. In *Proteins, Amino Acids and Peptides as Ions and Dipolar Ions*, ed. E. J. Cohn and J. T. Edsall, 543–568. New York: Hafner, 1965.

- Ortoleva, P. J., and J. Rosee. Response of unstable chemical systems to external perturbations. *J. Chem. Phys.* 56 (1972): 293–294. Olsen, R. G. Evidence for microwave-induced acoustic resonances in biological material. Second Annual Meeting, Bioelectromagnetics Society, San Antonio, Tex., Sept. 14–18, 1980.
- Olsson, Y. Mast cells in the nervous system. Int. Rev. Cytol. 24 (1968): 27-70.
- Padawer, J. The ins and outs of mast cell function. Am. J. Anat. 141 (1974): 399-402.
- Parker, J. H., and E. F. Carr. Anomalous alignment and domains in a nematic liquid crystal. J. Chem. Phys. 55 (1971): 1846–1850.
- Patel, V. L., and L. J. Cahill. Evidence of hydromagnetic waves in the earth's magnetosphere and of their propagation to the earth's surface. *Phys. Rev. Lett.* 12 (1964): 213–215.
- Pauly, H., and H. P. Schwan. Dielectric properties and ion mobility in erythrocytes. Biophys. J. 6 (1966): 612-639.
- Pennock, B. E., and H. P. Schwan. Further observations on the electrical properties of the hemoglobin-bound water. *J. Phys. Chem.* 73 (1969): 2600–2610.
- Perkel, D. H., and T. M. Bullock. Neural coding. Neurosci. Res. Prog. Bull. 6 (1968): 221-248.
- Persinger, M. A. Day time wheel running activity in laboratory rats following geomagnetic event of 5–6 July 1974. *Int. J. Biometeorol.* 20 (1976): 19–22.
- ———. Effects of magnetic fields on animal behavior. In *Progress in Biometeorology: Animal Biometeorology*, ed. H. D. Johnson, 177–182. Amsterdam: Swets and Zeitlinger, 1976.
- ———. ELF electric and magnetic field effects: The patterns and the problems. In *ELF and VLF Electromagnetic Field Effects*, ed. M. A. Persinger, 275–310. New York: Plenum Press, 1974.
- ———. Mast cells in the brain: Possibilities for physiological psychology. *Physiol. Psychol.* 5 (1977): 166–176.
- ———. Open field behavior in rats exposed prenatally to a low intensity-low frequency rotating magnetic field. *Devel. Psychobiol.* 2 (1969): 168–171.
- ————. Possible cardiac driving by an external rotating magnetic field. Symposium on Biological Effects of Natural, Electric, Magnetic and Electromagnetic Fields. Sixth Int. Biometeorol. Cong., Noordwijk, the Netherlands, Sept. 3-9, 1972; Int. J. Biometeorol. 17 (1973): 263–266. [This issue of Int. J. Biometeorol. contains 7 other papers from the symposium.]
- ——— . Prenatal exposure to an ELF rotating magnetic field, ambulatory behavior, and lunar distance at birth: A correlation. *Psychol. Report* 28 (1971): 435–438.
- ———. Studies on the biological effects of low and extremely low frequency electromagnetic fields. Laurentian University, Sudbury, Ontario, 1973–1978. [Monograph available from the author.]
- ---- and D. J. Coderre. Thymus mast cell number following perinatal and adult exposure to low intensity 0.5 Hz magnetic fields. *Int. J. Biometeorol.* 22 (1978): 123–128.
- ————, and W. S. Foster. ELF rotating magnetic fields: Prenatal exposure and adult behavior. *Arch. Met. Geophys. Biol.* 18 (1970): 363–369.
- ———, and K. P. Ossenkopp. Some behavioral effects of pre- and neonatal exposure to an ELF rotating magnetic field. *Int. J. Biometeorol.* 17 (1973): 217–220.
- ————, and J. J. Pear. Prenatal exposure to an ELF rotating magnetic field and subsequent increase in conditioned suppression. *Devel. Psychobiol.* 5 (1972): 269–274.
  - ——, et al. Behavioral changes in adult rats exposed to ELF magnetic fields. Int. J. Biometeorol. 16 (1972): 155–162.
- ———, et al. Physiological changes in adult rats exposed to ELF rotating magnetic. fields. Int. J. Biometeorol. 16 (1972): 163–172,

- , et al. Psychophysiological effects of extremely low frequency electromagnetic fields: A review. *Percept. Motor Skills* 36 (1973): 1139–1159. [Note: This is perhaps the single most pertinent reference on ELF in this bibliography.—AU.]
   . Thirty-eight blood tissue and consumptive measures from rats exposed perinatally and as adults to 0.5 Hz magnetic fields. *Int. J. Biometeorol.* 22 (1978): 213–226.
- Petersen, W. F. E. Man, Weather, Sun. Springfield, Ill.; Charles C. Thomas, 1947.
- Petroy, J. R. Influence of microwave radiation on the organism of man and animals. NTIS, Report no. 72-22073, 1972.
- Photiades, D. P., et al. Electrosleep in man by a combination of magneto-inductive and transtemporal electric currents. In *The Nervous System and Electric Currents*, ed. N. L. Wulfsohn and A. Sances, 153–158. New York: Plenum Press, 1970.
- Piccardi, G. The Chemical Basis of Medical Climatology. Springfield, Ill.: C C Thomas, 1952.
- Picton, H. D. Some responses of Drosophila to weak magnetic and electrostatic fields. *Nature* 211 (1966): 303–304.
- Pierce, E. T. Some ELF phenomena. J. Res. 64 (1960): 383-386.
- Pinneo, L. K., et al. The neural effects of microwave radiation, USAF, Rome Air Force Development Center, Report no. TRD-62-231, AD 277684, 1962.
- Pionsey, R. Action potential sources and their volume conductor fields. Proc. IEEE 65 (May 1977).
- Pohl, M. A. Natural AC electric fields in and about cells. In *Nonlinear Electrodynamics in Biological Systems*, ed. W. R. Adey and A. F. Lawrence, 87ff. New York: Plenum Press, 1984.
- ———— and J. S. Crane. Dielectrophoresis of cells. *Biophys. J.* 11 (1971): 711–727.
- ————, and ————. Dielectrophoretic force. J. Theoret. Biol. 37 (1972): 1–13.
- ——— and I. Hawk. Separation of living and dead cells by dielectrophoresis. Science 152 (1966): 647-649.
- Polk, C., and F. Fitchen. Schumann resonances of the earth-ionosphere cavity: Extremely low frequency reception at Kingston. U.S. Nat. Bur. Stand. J. Res. Radio Propagation 66D (May–June 1962).
- Popa, M. M. Response of guinea pig adrenals to continuous and arrhythmically interrupted low frequency electromagnetic fields. *Proc. 5th Biometeorol. Cong.*, ed. S. W. Tromp and W. H. Weihe, vol. 4, 129. Amsterdam: Springer-Verlag, 1969.
- Popp, F.-A., et al. Electromagnetic Bio-Information. Munich: Urban and Schwarzenberg, 1979.
- Poppel, E., and H. Giedke. Diurnal variation of time perception. Psychol. Forschg. 34 (1970): 182-198.
- Pressman, A. S. The action of microwaves on living organisms and biological structures. Sov. Phys. Usp. 8 (1965): 463-488.
  - —— . Electromagnetic Fields and Life. New York: Plenum Press, 1970.
- The role of electromagnetic fields in life processes. *Biofiz*. 9 (1964): 131–134.
- [——— .] Proceedings, Ad Hoc Committee jbr the Review of Biomedical and Ecological Effects of ELF Radiation. USN, Bureau of Medicine and Surgery, 1973.
- Raemer, H. R. On the spectrum of terrestrial radio noise at extremely low frequencies. *U.S. Nat. Bur. Stand. J. Res., Radio Propagation* 65D (November–December 1961).
- Ramon, C., et al. Effect of low-frequency weak magnetic fields on *E. Coli* bacteria. Second Annual Meeting, Bioelectromagnetics Society, San Antonio, Tex., Sept. 14–18, 1980.
- Ravitz, J. L. History, measurements, and applicability of periodic changes in the electromagnetic field in health and disease. *Ann. N.Y. Acad. Sci.* 98 (1962): 1144–1201.

- Rein, G., and R. Dixey. Neurotransmitter release stimulated in a clonal nerve cell line by low intensity pulsed magnetic fields. In *Nonlinear Electrodynamics in Biological Systems*, ed. W. R. Adey and A. F. Lawrence, 79–86. New York: Plenum Press, 1984.
- Reno, J. L. Microwave reflection, diffraction and transmission studies of man. NAMRL, Report no. 1199, February 1974.
- Rentsch, W. Magneto-inductive transmission of stimuli to the brain, in electrotherapeutic sleep and electroanesthesia. *Proceedings, First Annual Symposium (Graz, Austria, 12–17 Sept. 1966)*, ed. F. M. Wagenweder and O. St. Schuy, 161–168. Amsterdam: Excerpta Medica, 1967.
- Reynolds, D. V., and A. E. Sjoberg, eds. *Neuroelectric Research*. Springfield, Ill.: C C Thomas, 1971. [This book contains papers by 81 contributors.]
- Riesen, W. H., et al. A pilot study of the interaction of extremely low-frequency electromagnetic fields with brain organelles. HTRI, Technical Memorandum no. 3, HTRI Project E6185, Contract N00039-71-C-0111, 1971.
- Roberts, A. M. Effect of the electric fields on mice. Nature 223 (1969): 639.
- Romig, M. F., and D. L. Lamar. Anomalous sounds and electromagnetic effects associated with fireball entry. Rand Corp., RM-3724-ARPA, July 1963.
- Rosenblum, W. I. A possible role for mast cells in controlling the diameter of arterioles on the surface of the brain. *Brain Res.* 49 (1973): 75–82.
- Russo, F., and W. E. Caldwell. Biomagnetic phenomena: Some implications for the behavioral and neurophysiological sciences. *Genet. Psychol. Monogr.* 84 (1971): 177–243.
- Saito, M., et al. Response of nonspherical biological particles to alternating electric fields. *Biophys. J.* 6 (1966): 313–327.
- Saito, T. Geomagnetic pulsations. Space Sci. Rev. 10 (1969): 319-411.
- Sampson, H. W., et al. An ultrastructural investigation of calcium-dependent granules in the rat neurophil, *Brain Res.* 22 (1970): 157–162.
- [———.] Sanguine Division, Sanguine System Final Environmental Impact Statement, 77-78. USN, Naval Electronics Systems Command (PME 117-21), 1972.
- Scheich, H., and T. H. Bullock. The detection of electric fields from electric organs. In *Handbook of Sensory Physiology*, ed. A. Fessard, III. 3. *Electroreceptors in Lower Vertebrates*, 201–256. New York: Springer-Verlag, 1974.
- Schiff, J. and W. R. Loewenstein. Development of a receptor on a foreign nerve fiber in a Pacinian corpuscle. *Science* 177 (1972): 712–715.
- Schmidt, S., and P. Ortoleva. Multiple chemical waves induced by applied electric field. Chem. Phys. 67 (1978): 1010-1015.
- ----, and ----. A new chemical wave equation for ionic systems. J. Chem. Phys. 67 (1977): 3771-3776.
- Schmitt, F. O., and F. E. Sampson. Brain cell microenvironment. In *Neuroscience Research Symposium Summaries*, ed. F. O. Schmitt et al., vol. 4, 191–325. Cambridge, Mass.: MIT Press, 1970.
- ————, et al. Electronic processing of information of brain cells. Science 193 (1976): 114–120.
- Schmitt, O. H., and R. D. Tucker. Human perception of moderate strength low-frequency magnetic fields. IEEE meeting, 1973. Typescript.
- Schumann, W. O. Elektrische Eigenschwingungen des Hohlraumes Erde-Luft-Ionosphäre. Z. angew. u. Phys. 9 (1957): 373-378.
- ———. Über die strahlungslosen Eigenschwingungen einer leitenden Kugel, die von einer Luftschicht und einer Tonosphärenhülle ungeben ist. Z. Naturforschg. 7A (1952): 149–154.
- Schwan, H. P. Alternating current spectroscopy of biological substances. Proc. IEEE 47 (1959): 1841-1855.
- ———. Biological impedance determinations. J. Cell. Comp. Physiol. 66 (Suppl.) (1965): 512.
- ———. Biological hazards from exposure to ELF electrical fields and potentials. NWL, Technical Report no. TR-2713, 1972.

Schwan, H. P. Characteristics of absorption and energy transfer of microwaves and ultrasound in tissues. In Medical Physics, ed. O. Blassers, 1-7. Chicago: Yearbook Publishers, 1960. -. Determination of biological impedances. In W. L. Nastuk, Physical Techniques in Biological Research, vol. 6, 323-406. New York: Academic Press, 1963 — . Electrical properties of bound water. Ann. N.Y. Acad. Sci. 125 (1965): 344–354. — Electrical properties of tissue and cell suspension. Adv. Bioi. Med. Phys. 5 (1957):147-209 — . Interaction of microwave and radio frequency radiation with biological systems. IEEE Trans. Microwave Theor. Techn. 19 (1971): 146-152. - . Microwave biophysics. In Microwave Power Engineering, ed. E. Okress, vol. 2, 213–244. New York: Academic Press, 1968. —. Microwave radiation: Biophysical considerations and standards criteria. IEEE Trans. Biomed. Eng. 19 (1972): 304-312. ——. Principles of interaction of microwave fields at the cellular and molecular level. In Biologic Effects and Health Hazards of Microwave Radiation (Proceedings of an International Symposium, Warsaw, 15-18 Oct. 1973), ed. P. Czerski et al., 152-159. Warsaw: Polish Medical Publishers, 1974. -. To provide for the protection of the public health from radiation emissions. U.S. Senate, 19th Congress, Hearings Before the Committee on Commerce, May 13, 1968, 699-718. -. and K. R. Foster. RF-field interactions with biological systems: Electric properties and biophysical mechanisms. Proc. IEEE 68 (January 1980). , and G. M. Piersol. The absorption of electromagnetic energy in body tissues—Review and critical analysis. I. Biophysical aspects. Am. J. Phys. Med. 33 (1954): 371-404. — . The absorption of electromagnetic energy in body tissues. II, Physiological and clinical aspects. Am. J. Phys. Med. 34 (1955): 425-448. and L. D. Sher. Alternating-current field-induced forces and their biological implications. J. Electrochem. Soc. 116 (1969): 22C-26C. -, et al. Complex permittivity of water at 250 C. J. Chem. Phys. 64 (1976): 2257–2258. -, et al. The electrical properties of bilayer membranes. Abstracts, 10th Annual Meeting, Biophysical Society, Boston, 1966. Schwartz, J. Histamine as a transmitter in the brain. Life Sci. 17 (1975): 503-518. -, et al. Histamine formation in the rat brain in vivo Effects of histidine loads, J. Neurochem. 19 (1972): 801-810. Schwarz, G. A basic approach to a general theory for cooperative [?] intramolecular conformation changes of linear biopolymers. Biopolymers 5 (1967): 321-324. -. Cooperative binding in linear biopolymers. I. Fundamental static and dynamic properties. Eur. J. Biochem. 12 (1970): 442-453. -. General equation for the mean electrical energy of a dielectric body in an alternating electrical field. J. Chem. Phys. 39 (1963): 2387-2388. -, et al. On the orientation of nonspherical particles in an alternating electrical field. J. Chem. Phys. 43 (1965): 2562-2569. Sclabassi, K. J., et al. Complex pattern evoked somatosensory responses in the study of multiple sclerosis. Proc. IEEE 65 (May 1977). Seamon, K. B. Calcium and magnesium-dependent conformational states of calmodulin as determined by nuclear magnetic resonance. Biochem. 19 (1980): 207-215. Sel'kov, E. E. Oscillations in biological and chemical systems. Eur. J. Biochem. 4 (1968): 79-86.

Servantie, B., et al. Pharmacologic effects of a pulsed microwave field. In Biologic Effects and Health Hazards of Microwave Radiation

Publishers, 1974.

(Proceedings of an International Symposium, Warsaw, 15-18 Oct. 1973), ed. P. Czerski et al, 36-45. Warsaw: Polish Medical

- Servantie, B., et al. Synchronization of cortical neurons by a pulsed microwave field as evidenced by spectral analysis of electrocorticograms from the white rat. *Ann. N.Y. Acad. Sci.* 247 (1975): 82–86.
- Sharma, R. C. Mechanism of characteristic behaviour of cells in an alternating electric field. Nature 214 (1967): 83-84.
- Shatten, V. H., and J. M. Wilcox. Response of the geomagnetic activity index Kp to the interplanetary magnetic field. *J. Geophys. Res.* 72 (November 1967): 5185–5191.
- Sheer, D. E. Electrical Stimulation of the Brain. Austin: University of Texas Press, 1961.
- Sheppard, A. R. High frequency permittivity measurements in the time and frequency domains. Second Annual Meeting, Bioelectromagnetics Society, San Antonio, Tex., Sept. 14–18, 1980.
- ————. Magnetic field interactions in man and other mammals: An overview. In *Magnetic Field Effect on Biological Systems*, ed. T. S. Tenforde. New York: Plenum Press, 1978.
- ———— and M. Eisenbud. Biological Effects of Electric and Magnetic Fields of Extremely Low Frequency. New York: New York University Press, 1977.
- ———, et al. ELF electric fields alter neuronal excitability in aplysia neurons, Second Annual Meeting, Bioelectromagnetics Society, San Antonio, Tex., Sept. 14–18, 1980.
- ————, et al. Extracellular alternating currents change firing rate in aplysin pacemaker neurons. Soc. for Neurosci. Abstr. 6 (November 1980).
- ————, et al. Models of long-range order in cerebral macromolecules: Effects of sub-ELF and of modulated VHF and UHF fields. *Radio Sci.* 14 (November–December 1979): 141–145.
- Sher, L. D. Mechanical effects of AC fields on particles dispersed in a liquid: Biological implication. Diss., University of Pennsylvania, Philadelphia, Penna., 1963.
- ———, et al. On the possibility of nonthermal biological effects of pulsed electromagnetic radiation. *Biophys.* 10 (1970): 970–979. Sholl, D. A. *The Organization of the Cerebral Cortex*. New York: John Wiley & Sons, 1956.
- Silverman, C. Nervous and behavioral effects of microwave radiation in humans. Am. J. Epidemiol. 97 (1973): 219.
- Soyka, F. The Ion Effect. New York: E. P. Dutton, 1976.
- Spiegel, R. J., and W. T. Joines. A semiclassical theory for nerve excitation by a low intensity electromagnetic field. *Bull. Math. Biol.* 35 (1973): 591–605.
- Spirkin, A. Getting to know psycho-biophysical reality. USAF, Foreign Technology Division, Report no. FTD-ID (RS) T-1175-80.
- Stein, M., R. C. Schiavi, and M. Camerion. Influence of brain and behavior on the immune system. Science 191 (1976): 435-440.
- Stern, S., et al. Detection of 60 Hz electric fields by rats: Preliminary results. Second Annual Meeting, Bioelectromagnetics Society, San Antonio, Tex., Sept. 14–18, 1980.
- Stewart, G. T. Change of phase and change of state in biological systems. Molec. Cryst. Liq. Cryst. 7 (1969): 75-102.
- ———. Liquid crystals of lipid in normal and atheromatous tissue. *Nature* 183 (1959): 873–875.
- ————. Some physico-chemical properties of paracrystalline spherulites of biological origin. *Nature* 192 (1961): 624–625.
- Stratton, J. A. Electromagnetic Theory. New York: McGraw-Hill, 1941.
- Sturrock, P. A. Generation of radio noise in the vicinity of the earth. U.S. Nat. Bur. Stand. J. Res., Radio Propagation 66D (March-April 1962).
- Subbota, A. G. The effects of a pulsed super high frequency field on the higher nervous activity of dogs. *Bull. Exp. Med.* 46 (1958): 1206–1211.

- Sugiura, M., and J. P. Heppner. Electric and magnetic fields in the earth's environment. In *American Institute of Physics Handbook*, sec. 5, 265–303. New York: McGraw-Hill, 1972.
- Swenberg, C. E. Theoretical remarks on low frequency magnetic field interactions with biological systems. In *Magnetic Field Effect on Biological Systems*, ed. T. S. Tenforde. New York: Plenum Press, 1978.
- Swicord, M. L., G. S. Edwards, and C. C. Davis. Strong interactions of radiofrequency fields with nucleic acid. In *Nonlinear Electrodynamics in Biological Systems*, ed. W. R. Adey and A. F. Lawrence, 35–58. New York: Plenum Press, 1984.
- Szuts, E. Z., and R., A. Cone. Rhodopsin: Light activated release of calcium. Federat. Proc. 33 (1974): 1471. [Abstract.]
- Tabichers, L. Y., et al. Apparatus for the treatment of neuropsychic and somatic diseases with heat, light, sound, and VHF electromagnetic radiation. U.S. Patent no. 3,733,049.
- Takashima, S. Membrane capacity of giant squid axon during hyper- and depolarizations. J. Membr. Biol. 27 (1976): 21-39.
- ———, and A. Minakata. Dielectric behavior of biological macromolecules. In *Digest of Dielectric Literature*, ed. W. Vaughn. Washington, D.C.: National Research Council, National Academy of Sciences, 1976.
- ----, and H. P. Schwan. Passive electrical properties of squid axon membrane. J. Membr. Biol. 17 (1974): 51-68.
- ————, et al. Effects of modulated KF energy on the EEG of mammalian brains, II. Appearance of fast and slow waves after chronic irradiations. *Proceedings of the 1978 Symposium on Electromagnetic Fields in Biological Systems*, Ottawa, Ontario, June 28-30, 1978.
- Tasaki, I. Evolution of theories of nerve excitation. In *The Nervous System*, ed. D. B. Tower, vol. III. *The Basic Neurosciences*, 177-195. New York: Raven Press, 1975.
- Tenforde, T. S., ed. Magnetic Field Effect on Biological Systems. New York: Plenum Press, 1978.
- Teng, H. C., and H. E. Howard. The relationship between sudden changes in weather and the occurrence of acute myocardial infarction. *Am. Heart J.* 49 (1955): 9–20.
- Tepley, L. R., and K. D. Amundsen. Notes on sub ELF emissions observed during magnetic storms. *J. Geophys. Res.* 69 (1964): 3749–3754.
- Toomey, J., and C. Polk. Research on extremely low-frequency propagation with particular emphasis on Schumann resonance and related phenomena. Bedford, England: Air Force Cambridge Research Laboratories, 1970.
- Triffet, T., and H. S. Green. Information and energy flow in a simple nervous system. J. Theor. Biol. 86 (1980): 3-44.
- Tromp, S. W. Medical Biometeorology. New York: Elsevier, 1963.
- ——— . Psychical Physics. New York: Elsevier, 1949.
- Trullinger, S. E. Where do solitons go from here? In Solitons and Condensed Matter Physics, ed. A. R. Bishop and T. Schneider, 338-340. Berlin: Springer-Verlag, 1978.
- Tyler, P. E., ed. Biologic effects or nonionizing radiation. Ann. N.Y. Acad. Sci. 247 (February 1975).
- Uteush, E. V. Research on the psychophysiological peculiarities of the operator. USAF, Foreign Technology Division, Report no. FTD-MT-24-57-1970.
- Vaccaro, S. R., and H. S. Green. Ionic processes in excitable membranes. J. Theor. Biol. 81 (1979): 771-802.
- Valentinuzzi, M. Magnetobiology. Downey, Calif.: North American Aviation, 1961.
- Von Holst, E. Electrically controlled behavior. Sci. Am. 206 (March 1962): 50-59.

- Vyalov, A. M., et al. On the problem of the effect of constant and variable magnetic fields on the human organism. In *Occupational Pathology*, ed. A. P. Shisskova, 169–175. Moscow: Ministry of Health, 1964. [Translation available.]
- Wachtel, H. et al. Effects of low intensity microwaves on isolated neurons. Ann. N.Y. Acad. Sci. 247 (1975): 46-62.
- Wade, N. Fischer-Spassky charges: "What did the Russians have in mind?" Science 177 1972): 778.
- Walcott, C., and R. P. Green. Orientation of homing pigeons altered by a change in the direction of an applied magnetic field. *Science* 184 (1974): 180–182.
- Wallach, D. F. H., and P. H. Zahler. Protein conformation in cellular membranes. Proc. Nat. Acad. Sci. 56 (1966): 1552-1559.
- Waltmann, N. Electrical properties and fine structure of the ampullary canals of Lorenzini. *Acta Physiol. Scand.* 66 (Suppl. 264) (1966): 1–60.
- Wang, H. H., and W. R. Adey. Effects of cations and hyaluronidase on cerebral electrical impedance. *Exp. Neurol.* 25 (1969): 70–84. ————, et al. Calcium, mucopolysaccharides, and cerebral impedance. *Federat. Proc.* 27 (1968): 749. [Abstract.]
- Wever, R. Different aspects of the studies of human circadian rhythms under the influence of weak electric fields. In *Chronobiology*, ed. L. E. Scheving, F. Halbert, and J. E. Pauly, 694–699. Tokyo Igako Shoin, 1974.
- ———. The effects of electric fields on circadian rhythms in man. Life Sci. Space Res. 8 (1970): 177–187.
- ———. ELF-effects on human circadian rhythms. In *ELF and VLF Electromagnetic Field Effects*, ed. M. A. Persinger, 101–144. New York: Plenum Press, 1974.
- ————. Human circadian rhythms under the influence of weak electric fields and the different aspects of these studies. *Int. J. Biometeorol.* 17 (1973): 227–232.
- ————. Influence of electric fields on some parameters of circadian rhythms in man. In *Biochronometry*, ed. M. Menaker, 117–132. Washington, D.C.: National Academy of Sciences, 1971.
- ———. Influence of light on human circadian rhythms. Nord. Council Arct. Res. Report 10 (1974): 33–47.
- ————. A mathematical model for circadian rhythms. In *Circadian Clocks*, ed. J. Aschoff, 47–63. Amsterdam: North Holland, 1965.
- Wieske, C. W. Human sensitivity to electric fields. *Biomedical Sciences Instrumentation: Proceedings of the First National Biomedical Sciences Instrumentation Symposium*, vol. 1, 467–475. Distributed by Plenum Press, New York, 1963.
- Williamson, S. J., et al. Evoked neuromagnetic fields of the human brain. J. Appl. Phys. 50 (March 1979).
- Wortz, E. C., et al. Biophysical aspects of parapsychology. Garrett Airesearch Corp., Document no. 75-11096A, 1975.
- ————. Novel biophysical information transfer mechanisms (NBIT). Garrett Airesearch Corp. Document no. 76-13197, Contract no. XG-4208 (54-20) 758, January 1976.
- Zeeman, E. C. Primary and secondary waves in developmental biology. In *Lectures on Mathematics in the Life Sciences*, ed. E. C. Zeeman, 69–101. Providence, RI: American Mathematics Society, 1974.
- Zhokov, V. P., and E. I. Indeikin. Relationship between acute attacks of glaucoma and changes in the magnetic field of the earth. *Vestn. Ophthalmol.* 5 (1970): 29–30.

# **Abstracts of Important Articles and Papers**

Below are some abstracts of important papers related to psychotronics subjects found in the academic and professional literature. Many of these articles are still under copyright restrictions, but if you are interested in any of these articles, please write to the editor, John Reed, (joreed43@gmail.com) and he will assist you in getting a copy. Also, please remember that one of the benefits of USPA membership is your right to use the USPA Literature Research Service, whereby we will find any article, book, or other item you are seeking on any psychotronics related subject and provide it to you, if at all possible.

Ives JA, van Wijk EPA, Bat N, Crawford C, Walter A, Jonas WB, et al. (2014) Ultraweak Photon Emission as a Non-Invasive Health Assessment: A Systematic Review. PLoS ONE 9(2): e87401. The full text of the article is available here: <a href="https://doi.org/10.1371/journal.pone.0087401">https://doi.org/10.1371/journal.pone.0087401</a>

#### Abstract:

We conducted a systematic review (SR) of the peer reviewed scientific literature on ultraweak photon emissions (UPE) from humans. The question was: Can ultraweak photon emissions from humans be used as a non-invasive health assessment? A systematic search was conducted across eight relevant databases: PubMed/MEDLINE, BIOSIS, CINAHL, PSYCHINFO, All of Cochrane EBM databases, GIDEON, DoD Biomedical Research, and clinicaltrials.gov from database inception to October 2011. Of the 1315 studies captured by the search strategy, 56 met the inclusion criteria, out of which 1 was a RCT, 27 were CCT, and 28 were observational and descriptive studies. There were no systematic reviews/meta-analyses that fit the inclusion criteria.

In this report, the authors provide an assessment of the quality of the RCT included; describe the characteristics of all the included studies, the outcomes assessed, and the effectiveness of photon emission as a potential health assessment tool. This report demonstrates that the peer reviewed literature on UPE and human UPE measurement in particular is surprisingly large. Most of the human UPE literature is of good to high quality based on our systematic evaluation. However, an evaluation tool for systematically evaluating this type of "bio-evaluation" methodology is not currently available and would be worth developing. Publications in the peer reviewed literature over the last 50 years demonstrate that the use of "off-the-shelf" technologies and well described methodologies for the detection of human photon emissions are being used on a regular basis in medical and research settings. The overall quality of this literature is good and the use of this approach for determining inflammatory and oxidative states of patients indicate the growing use and value of this approach as both a medical and research tool.

Popp, F.A., Nagl, W., Li, K.H., Scholz, W., Weingärtner, O., and Wolf, R. "Biophoton Emission: New Evidence for Coherence and DNA as Source". <u>Cell Biophysics</u>. 1984 March; 6(1):33-52.

#### Abstract:

The phenomenon of ultraweak photon emission from living systems was further investigated in order to elucidate the physical properties of this radiation and its possible source. We obtained evidence that the light has a high degree of coherence because of (1) its photon count statistics, (2) its spectral distribution, (3) its decay behavior after exposure to light illumination, and (4) its transparency through optically thick materials. Moreover, DNA is apparently at least an important source, since conformational changes induced with ethidium bromide in vivo are clearly reflected by changes of the photon emission of cells. The physical properties of the radiation are described, taking DNA as an exciplex laser system, where a stable state can be reached far from thermal equilibrium at threshold.

Kohut, Peter, "Unity Principle, Quantum Information & DNA" (Part 2). DNA Decipher Journal. Vol. 7, No. 2 (2017), pp. 82-97.

#### Abstract:

The information essence of the Universe dominates over its physical aspect. Its dynamic hierarchic information structure is a manifestation of a divine Mind with its Idea (Intelligence), so the Universe is rational and comprehensible for us. The information coded in DNA reflects the whole universal information at its own level of complexity. This information coded in DNA creates the whole holographic image of a living organism that should be evolved. DNA manages through its instructions the building of biophysical body, which form is given in a quantum holographic image existing at various hierarchical levels of quantum reality (e.g. ethereal, astral and mental). Human body coded in DNA has its various representations at all hierarchical levels of physical reality in a form of multilevel human soul through which the universal divine Spirit is individualized in a concrete Man. The evolution can be imagined as a climbing through the dialectic helix step ladder. It is remarkable that DNA coding the evolutionary process is just the double-helix structure – step ladder. Part II of this two-part article includes: Creative Power, Information & DNA; Dynamic Hologram & DNA; Consciousness; Mind-Body Dialectics; and Conclusion

(Editor's Note: The DNA Decipher Journal 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 great importance on the above and related subject matter. Their home page is:

http://www.dnadecipher.com/index.php/ddj/index)

# Unconventional Research in USSR and Russia - A Short Review

#### by Serge Kernbach

(Originally published in the International Journal of Unconventional Science, Issue E-1 (2016), 23 pages)

(Editor's note: The full text of this review of Russian psychotronics and subtle energy related research is available through the links below in both English and Russian. We were unable to secure permission in time to reprint the article directly in the January, 2018, issue of the USPA Journal and Newsletter.)

Full text of article Freely available here in English and

#### Freely Available Here in Russian

Abstract—This work briefly surveys unconventional research in Russia from the end of the 19th until the beginning of the 21th centuries in areas related to generation and detection of a 'high-penetrating' emission of non-biological origin. The overview is based on open scientific and journalistic materials. The unique character of this research and its history, originating from governmental programs of the USSR, is shown. Relations to modern studies on biological effects of weak electromagnetic emission, several areas of bioinformatics and theories of physical vacuum are discussed.

#### Creation of Sacred Space

and

**Subtle Energy Balancing** 



BILL REID P.O. Box 475 GOLDEN, COLORADO 80402 303-279-5784

# Creation of Sacred Space and Subtle Energy Balancing

#### by Bill Reid

Paperback: 268 pages

**Publisher: Bill Reid Publications** 

Language: English

Product Dimensions: 8.5 x 11 inches

Available from: Bill Reid, P.O. Box 475, Golden

Colorado 80402

This is a very rare book by one of the top experts in the country on radionics, psychotronics, subtle energies, energy healing,

and related subjects. It is not available on Amazon, Abe Books, or eBay, and is in no library in the world, according to WorldCat, and can only be obtained by writing, emailing, or calling the author.

In addition to the above subjects of the author's expertise, this book covers a large range of topics, which include: geobiology, geopathic stress and its role in causing disease; gravitobiology, and EMF pollution and its effects on health, due to the sea of EMF waves that we are constantly bathed in from the moment of birth.

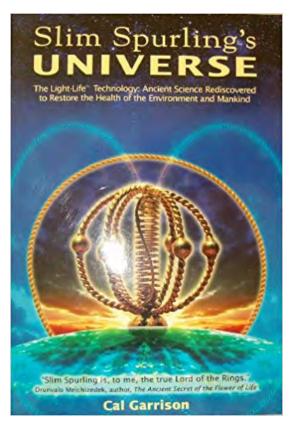
In addition, the author covers numerous diseases and health conditions, and describes how various kinds of energy balancing and other energy – based modalities, as well as, various nutritional supplements, have been and can be used to restore health, including physical, mental, emotional, and spiritual health. These modalities include vortex corrections, body corrections, holographic cards, various tools and machines, such as Light-Life™ tools, Harmonizers, coils, and feedback loops.

Overall, this book will be a valuable addition to you library, and is highly recommended.

Bill Reid was born and raised in Hartford, Connecticut, and graduated from the Colorado School of Mines in 1961 with a degree in mining/geological engineering. His work experience in the material sciences has been in the field of precious metal extraction and process development.

He is a gemologist (FGA), and inventor/co-inventor of the Light-Life Ring, Acu-Vac Coil, Feedback Loop, and Harmonizers. His subtle energy research has included Reichian Orgone instruments and application in alchemy and tachyon physics, and he developed a process to bond alchemical gold/silver to silk.

Besides his scientific pursuits, Reid is a musician (ragtime to classical), linguist, psychic, healer, dowser, and counselor. He is available to teach workshops in geobiology to a minimum group of 15. You may reach him by email at: BillOrPat@home.com. Or call: 303-279-5784



Slim Spurling's Universe -- The Light-Life™ Technology: Ancient Science Rediscovered to Restore the Health of the Environment and Mankind

# by Cal Garrison

Paperback: 223 pages

Publisher: IX-EL Publishing LLC (2004)

Language: English ISBN-10: 0976033828 ISBN-13: 978-0976033820

**ASIN: B002IRCKI8** 

Package Dimensions: 9.2 x 6.3 x 1.4 inches

Available from Amazon.com, here.

"Slim Spurling's Universe - The Light-Life ™Technology: ☐ Ancient Science Rediscovered to Restore the Health of the Environment and Mankind" is the first written documentation of a lifetime of research that took the man far beyond the boundaries of known science. Scientists and laymen alike will be fascinated and inspired by what lies inside these pages. This book, which is full of knowledge and information that can be put to immediate use. It gives readers a clear, concise picture of how we can take the problems of the world into our own hands and do something about them. The attached Table of Contents of this book shows the many people, subjects, and technologies covered in this fascinating book.

Cal Garrison authors books on Magic, healing, and metaphysics. Slim Spurling □s Universe is her fifth book. In addition to her writing, Cal has thirty-five years of experience as a practicing astrologer. Her private readings and published articles have impacted the lives of people all over the country. Cal is also a Flower of Life Facilitator and holds workshops in the New England area on a regular basis. She has worked closely with Slim since 2001, and is deeply committed to the ongoing research into the Light-Life Tools. The mother of three grown daughters, Cal lives happily in the Green Mountains of Vermont.



INTRODUCTION11
11 (1110)
Ring One BIOGRAPHY
Ring Two EARLY DISCOVERIES 49
Early Discoveries Relating to the Caduceus Coil50
Hodgkin's Disease
The "Ammonia Event"51
Positive and Negative Effects53
Heart Trouble, A Pinched Nerve, and A Spinal Realignment55
Stormy Weather56
Bob Dratch57
John Davis—Long Form
Two Pieces of Wire
The Tensor60
Hans Becker61
Boyd Bushman62
Biofeedback
Ultraviolet64
Coyote Optics Shoemaker-Levy Comet
Deep-Space Telescopes
Phillip Callahan, Pete Jackson, and Paramagnetism
The Resurrected Shamrock

Ring Three DOWSING	71
Slim on Dowsing and Geopathic Stress	74
The Clearing Technique	
More on the Clearing Technique	80
Dowsing Stories	
Denver 1985	82
Neighbors and the Spooks That Come With Them	84
Same Client, Different Problem	
Dowsing for Dollars	88
Corporate Express	89
Another Business Story	91
Small-Town Politics	92
Cancer, Epilepsy, and a Dysfunctional Willow Tree	94
Geopathic Stress in the Intensive Care Unit	95
Ring Four THE LIGHT-LIFE™ TOOLS	99
The Rings	
Slim on the Rings	
Superconductivity	
Some Helpful, Down-to-Earth Information on the Rings	
The "Lost Cubit"	
Slim on the Lost Cubit	
The Significance of the Number Thirty-Three	
Suggestions for Working With the Lost Cubit	
The Plain Jane vs. the Beaded Gold and Silver Rings	
Slim on the Acu-Vac Coil	
More About the Coils	
Some Practical Information on the Coils	
Slim on the Feedback Loop	
Applications of the Feedback Loop	
The Nose Mask	
The Acupressure Tool	
The Harmonizers	
Slim With Some Background on the Harmonizers	
The Denver Air Pollution Experiment—The Whole Story	
Cairo	
Reflections on the Denver Experiment	
More Reflections on Denver	
Onward and Upward—Coming Out of the Closet	
Crassmoots	

The Downstream Effects
The Psychological Effects of Air Pollution
More Data on the Effects of the Harmonizers:
The McCurry Farm160
"Grassroots," Grass Seed, and Grass
Harmonizers in New Zealand
Chesapeake Bay165
Positive Side Effects
Different Types of Harmonizers
When the Tools "Don't Work"
Ring Five PHYSICS AND METAPHYSICS 175
First Near-Death Experience 180
Second Near-Death Experience
The Ether: A Few Comments on Einstein and Maxwell
Metaphysics and Dowsing
1 •
Puffballs and Negative Frequencies
The Changeling and Anthrax
Six of One, Half Dozen of Another?
Scientific Research Into Dowsing
More on Clairvoyance
An Early Vision Sitting in a Ring
Credo Mutwa—Peace 200
Comments from an Interview with Drunvalo Melchizedek
Comments from an interview with Drunvalo Meichizedek
ACKNOWLEDGMENTS BY SLIM SPURLING205
BIBLIOGRAPHY210
INDEX 214
LIGHT-LIFE <sup>™</sup> TOOLS AUTHORIZED DISTRIBUTORS218
LIGHT LITE TOOLS HE THORIZED DISTRIBETORS 210

# **USPA Generous Donor Recognition Page**

The USPA would like to give special recognition on a continuing basis to people making generous donations to the United States Psychotronics Association. To do this, we are creating this special "USPA Generous Donors Recognition Page" that will be carried in each issue of the USPA Journal & Newsletter, beginning with the December, 2016, issue and going forward. New names will be added as other generous donations are received.

We wish to recognize the following individuals for their generosity: (in alphabetical order)

**Mary Hardy** 

Michael Leger, ( Homeodynamics, LLC )

John H. Reed

**Arnold Reinhold** 

**Eric Rowley** 

The USP wishes to extend our thanks and gratitude for their generosity.

To make a tax deductibe donation to the United States Psychotronics Association (USPA) online, please go to the <u>USPA home page and scroll down to the "Donations" tab</u>, where you can make a donation using your credit or debit card. For those who wish to make a donation by check, please make your check payable to USPA and mail it to the USPA treasurer, Scott Beutlich, 525 Juanita Vista, Crystal Lake, IL 60014.

#### **USPA Periodicals Library Update**

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 and acquire 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 the following list of periodicals that focused on or frequently had articles on psychotronics related subjects. But this is only a preliminary list, and we know that there are probably more psychotronics periodicals that have been published, but that we do not yet know about.

So please look over the following list and check your own personal physical libraries and your computers 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) at: <a href="mailto:joreed43@gmail.com">joreed43@gmail.com</a>, 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 have a huge "library" of periodicals, but it just happens to be "distributed" among its members 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 for 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.

**American Journal of Electromedicine:** Daniel Kirsch Ph.D., developer of Alpha-Stim Craniotherapy Electrical Stimulation (CES) was the first editor; **The USPA Library needs all issues.** 

American Journal of Electrotherapeutics and Radiology: This journal was published in New York, New York, by the American Electrotherapeutic Association. It began with Vol. 34, no. 1 (January, 1916), and continued to be published under this title through Vol. 44, no. 12 (December, 1926), when the title was changed to Physical Therapeutics. Editorship continued under William B. Snow, M.D., and journal numbering was also retained under the new title. The prior title had been Journal of Advanced Therapeutics. The USPA Library needs all issues of this periodical.

American Radio Therapy Society Journal: This was a periodical published in Hollywood, California, by the American Radio Therapy Society, which had been founded by Dr. Ruth Drown in 1949. This periodical began with vol. 1, no. 1 in June, 1949, and continued to be published for a period of time. However, it is not known when it ceased publication or how many issued were published, but presumably it ceased sometime before Dr. Drown's death in 1963. This journal focused on radionics psychotronics subjects, and had no interest in ionizing radiation therapies, such as x-ray therapy, which were also known as "radio therapy" at that time. The only library in the world that has copies of this periodical is the National Library of Medicine in Bethesda, Maryland. The USPA Library needs all issues of this periodical.

**BEMI Currents:** BEMI Currents was a quarterly journal published by the Bio-Electro-Magnetics Institute in Reno, Nevada, from 1989-1993. The editor was Dr. John Zimmerman. This journal began with vol. 1, no. 1 (Spring, 1989) and continued through Vol. 3, no. 4 (March, 1993), after which it ceased publication. **A total of 12 issues were published, and the USPA Library has all 12 issues in its collection.** 

Bioeffects Newsletter: This was a periodical that was published by the "Physiology Program", Office of Naval Research, in Arlington, Virginia, and focused on the biological effects of electromagnetic fields. It probably began sometime in the 1977, because it is known that Issue #5 was dated April, 1978. The Bieffects Newsletter is believed to have ceased publication when the Bioelectromagnetics Society (BEMS) was formed in 1978, because it was edited by Thomas Rozzell, who served as the editor of the BEMS Newsletter for the Bioelectromagnetics Society. This periodical is not found in any library of the world, but is undoubtedly in a number of private collections. The USPA Library needs all issues of this periodical.

**Bioelectric Medicine:** Journal founded in 2014, Kevin Tracey, M.D., President of the Feinstein Institute for Medical Research, which has established a Center for Bioelectronic Medicine; **The USPA Library needs all issues.** 

**BioElectroMagnetics:** Published by John Wiley and Sons from Vol. 1, No. 1 (1980) to present. It is the **Journal of the Bioelectromagnetics Society.** We need all issues. All articles are freely available online at Johns Hopkins, back to 1980; **The USPA Library needs all issues.** 

**Bridges:** This was the newsmagazine of the International Society for the Study of Subtle Energies & Energy Medicine (ISSSEEM) from 1990 through the present. **The USPA Library has a complete set of this periodical from vol. 1, no 1 (Spring, 1990) through the present.** 

**British Journal of Radiesthesia and Radionics**. Published by the British Radiesthesia Association, 1953-1963. The original title was British Journal of Radiesthesia. **The USPA Library needs all issues**.

Clinical Bulletin (Electronic Medical Foundation): This periodical was published by the Electronic Medical Foundation in San Francisco, California, from 1945 into 1948, when it was absorbed by the Electronic Medical Digest. Clinical Bulletin No. 4 was published in mid-1946, but the exact date is unknown, because that issue is undated. However, Issue No. 17 is dated April, 1948, and it is known that an issue No. 18 was also published in 1948, before it was absorbed by the Electronic Medical Digest. The USPA Library has issues No. 4 and No. 17, but needs all other issues including what is believed to be the final issue, No. 18.

**DeLaWarr Laboratories Newsletter:** published by George and Marjorie DeLaWarr, and later their daughter Diana Di Pinto, from 1964-1986. **The USPA Library has a complete set of these, unless you know of any issues published after 1986.** 

**Dowsing Today:** The journal of the British Society of Dowsers, published from 2000 to the present. Original title was Radio Perception, which began in 1933. **The USPA Library needs all issues.** 

**Earthpulse Flashpoints:** This periodical was edited by Dr. Nick Begich and published by Earthpulse Press, Inc. In Ankorage Alaska. It focused on such subjects as Patrick Flanagan's neurophone, biohazards of ELF, living cells as electromagnetic units, and othe psychotronic related subjects. It began with Series (Volume) 1, no. 1 in 1996, and continued until at least 1999, when the last known issue, Series 2, no. 3, was published. Only one library in the world has this periodical in its collection, the UAA/APU Consortium Library in Anchorage, Alaska. **The USPA Library needs all issues of this periodical.** 

**Electro and Magnetobiology:** Published by Taylor and Francis from 1993-2002. Title was changed to Electromagnetic Biology and Medicine. **The USPA Library needs all issues.** 

**Electromagnetic Biology and Medicine:** Published by Taylor and Francis from 2003-present. Former editor, Dr. Abe Liboff; **The USPA Library needs all issues.** 

**Electronic Medical Digest:** published in San Francisco, California, by the College of Electronic Medicine, and then the Electronic Medical Foundation from 1946 - 1955, edited by Fred J. Hart. **The USPA Library needs all issues.** 

Electrus Newsletter: This periodical was published by the American Institute of Archives located in Keene, Texas, in the early 1990s. It was edited by Mark Simpso, author of the book, The Rife Way III, and focused on Royal R. Rife research and bioelectromagnetics. It began with Issue #1 (August, 1990) and published at least two issues, with the second being Issue #2 (November, 1990). However, it is not known if any other issues were ever published. According to WorldCat, it is not held by any library in the world. The USPA Library needs all issues of this periodical.

**Energy & Character - Journal of Bioenergetic Research:** This was a periodical published by Abbotsbury Publications, Dorset, England, UK, and focused on psychotronic related subjects, especially orgone energy and Wilhelm Reich's research.

It began with vol. 1, no. 1 (January, 1970), and continued publishing 3 times per year for 38 years, but ceased publication with volume 37 in 2009. **The USPA Library needs all issues of this periodical.** 

**Experimental Special Data Bulletin:** This was a monthly periodical published in Kansas City, Missouri, by the Radiation Laboratories, Inc., headed by T. Galen Hieronymus. It began with Vol. 1, No. 1 (January, 1948) and continued through at least Vol. 2, No. 7 (July, 1949), but it is uncertain if any issues were published after that date. **The USPA Library needs all issues of this periodical.** 

**Extension Bulletin, Electronic Medical Foundation:** This was a series of bulletins published by the Electronic Medical Foundation of San Francisco, beginning in the late 1940s. Thomas Colson was the editor, and at least three issues were published, No. 1, No. 2, and No. 3, which the USPA Library has, but they are undated. **The USPA Library needs any issues that were published after No. 3.** 

Information Service Newsletter: This was a quarterly periodical published in Oxford, England, by the Delawarr Laboratories, Ltd., and the Radionic-Magnetic Centre Organisation. It focused on radionics, subtle energies, and related subjects. This periodical began with Vol. 1, No. 1 (Spring, 1973) and continued through at least the Winter, 1980, issue, but it is uncertain if any issues were published after that date. The USPA Library needs all issues of this periodical. No libraries in the world have this periodical in their collections. If any readers happen to have copies of this periodical in their personal library, it would be greatly appreciated if you would xerox these issues and send them to the USPA Library. Please write to the editor (John Reed) ahead of time if you are willing to help: joreed43@gmail.com;

Interdimensional News: This periodical was edited by Peter Kelly, who founded what is now Kelly Research Technologies (KRT), and published by Interdimensional Sciences, Inc., in Lakemont, Georgia. It focused on radionics, energy medicine, effects of EM waves and fields, and other psychotronic related subjects. It began with Volume) 1, no. 1 (Fall, 1983) and continued on until the final issue, Volume 3, no. 3 (May-June, 1986). Through the generous donation of Ed Kelly, USPA Board member, and current CEO of Kelly Research Technologies (KRT), the USPA Library has a complete set of this periodical.

Journal of Advanced Therapeutics: Published in New York, New York, by the American Electrotherapeutic Association. It began with Vol. 20, no. 1 (January, 1902), and continued to be published under this title through Vol. 33, no. 10 (December, 1915), when the title was changed to the American Journal of Electroherapeutics and Radiology. Editorship continued under William B. Snow, M.D., and journal numbering was also retained under the new title. The prior title of this journal had been Journal of Electrotherapeutics; The USPA Library needs all issues of this periodical;

**Journal of Bioelectricity:** Published by Taylor and Francis from 1982-1992. Title was changed to Electro and Magnetobiology. **The USPA Library needs all issues.** 

**Journal of Bioenergetic Research (JBR):** This periodical was being published by the Royal Rife Research Society (RRRS) in Carlsbad, California, in the early 1990's. It is not known for certain when the JBR began publishing, but is believed to be in 1992,

since vol. 1, no. 3 was for November, 1992. By 1995, it was no longer being published, and in correspondence by John H. Reed with the RRRS in August, 1995, the RRRS stated that no back issues were available. **The USPA Library needs all issues of this periodical.** 

**Journal of Electroceutical Medicine:** founded by Richard Markoll, MD, PhD, Port d'Andratx (Majorca), Baleric Islands, Spain; **The USPA Library needs all issues.** 

Journal of Electronic Medicine (Kirksville, Missouri): This was a periodical that was published by the Kirksville, Missouri, McManis Branch of Albert Abrams' College of Electronic Medicine, which was headquartered in San Francisco, California. This very rare journal focused on Albert Abrams' radionic methods of diagnosis and treatment, as well, as other energy and electronic methods of medical treatment. It began with Vol. 1, No. 1, probably in January, 1923, because it is known for certain that Vol. 1, No. 5 was dated May, 1923. This periodical ceased publication later in 1923, when the McManis Branch was closed, and it is not known whether there were any other issues published after issue No. 5. This journal is not listed in Worldcat as being held by any library in the world, but a single issue was recently discovered by John Reed and Daniel Taylor in the archives of the Museum of Osteopathic Medicine at A.T. Still University in Kirksville, Missouri. The USPA Library has issue Vol. 1, No. 5, but needs issues Vol. 1 No. 1, 2, 3, and 4, as well as, any issues of this periodical that may have been published after No. 5 in 1923.

Journal of Electronic Medicine (San Francisco, California): This was a continuation of Physico-Clinical Medicine, and ran from 1939-1945, published by Fred J. Hart and the College of Electronic Medicine. The USPA Library needs all issues.

**Journal of Electrotherapeutics:** Published in NY, New York, by the American Electrotherapeutic Association. It began with Vol. 1, no. 1 in 1883, and continued to be published under this title through Vol. 19, no. 12 (December, 1901), when the title was changed to the Journal of Advanced Therapeutics (see following title). Editorship continued under William B. Snow, M.D., and journal numbering was also retained under the new title. **The USPA Library needs all issues of this periodical**;

Journal of Paraphysics/International Journal of Paraphysics: Benson Herbert started his Paraphysical Laboratory in Downton, Wiltshire, England and began publishing the Journal of Paraphysics with vol.1, no.1 in 1967, and the name was later changed to International Journal of Paraphysics. Herbert published the Journal from 1967 until around 1989, with the last volume being vol. 23 in that year. Since the Journal and Lab were mostly the project of Herbert, they fell apart as his health failed and have become defunct. The USPA Library needs all issues of this periodical.

Journal of the American Electronic Research Association: Vol 1, No. 1 (January, 1924) through Vol. 13, No. ??? (1936), when it ceased publication; The USPA Library needs all issues.

Journal of the Bioelectromagnetics Society: see BioElectroMagnetics, above;

**Journal of the British Society of Dowsers:** Published by the British Society of Dowsers from 1956-2000. Prior title was **Radio Perception**. Succeeding title: **Dowsing Today**. **The USPA Library needs all issues**.

**Journal of the United States Psychotronics Association**. Published by the United States Psychotronics Association. Only six issues were published, and **the USPA Library has a complete set.** 

**JPI News:** This periodical was being published by the Japan Psychotronics Institute in Tsukuba-shi Ibaraki, Japan, in the 1990's. It is known that there was a September, 1993, issue of this periodical, but it is not known when it was first published, or if it is still being published. **The USPA Library needs all issues of this periodical.** 

Little Farm Journal: This periodical was published by Lutie Larsen and Little Farm Research in Pleasant Grove, Utah, and focused on agruchtural radionics and related subjects. It began sometime before the first issue of The Radionic Homestead Report, which was published in May, 1988, because that issue referred to the Little Farm Journal. It is not known when it began publishing, how many issues were published, or when it ceased publication. This periodical is not found in any library of the world, but is undoubtedly in a number of private individuals' collections. The USPA Library needs all issues of this periodical.

**Mind and Matter:** published by George DeLaWarr of the DeLawarr Laboratories in Oxford, England from 1957-1967. **The USPA Library has a complete set of these very rare journals.** 

**NeuroQuantology:** (ISSN: 1303-5150) This is a quarterly peer-reviewed journal published in Bornova, Turkey, by Suktan Tarlaci, M.D., a Turkish physician. It is published in English and focuses physical and quantum explanations for consciousness, psychic phenomena, entanglement, non-locality, mind-matter interaction, and related subjects. It began with Vol. 1, No. 1 in 2003 and has continued to be published through the present, with Vol. 15, No. 2 being published in 2017. **The USPA Library needs all issues of this periodical.** Many issues are freely available to readers at:

https://www.neuroguantology.com/index.php/journal/issue/archive

New ERA Health Bulletin: This was a periodical published by The Abrams Institute (Radio Diagnostic Laboratory) at 24 Clark Street, Brooklyn, New York. It was originally edited by the leaders of this organization, Irving Platt Withington, M.D., medical director and William F. Hudgings, business manager This periodical began with Vol. 1, No. 1 sometime in 1927, although the exact date is uncertain. It continued to be published through at least Vol. 1, No 2 published in November, 1927, but it is uncertain if any issues were published after that issue. No library in the entire world has this periodical in its collection. If by chance any reader has issues of this periodical, please write to the editor (John Reed) at: joreed43@gmail.com;

**Newsletter of the Institute of Psionic Medicine**. Published by the Institute of Psionic Medicine only from 1978-1979. **The USPA Library needs all issues.** 

**Newsheet of the Psionic Medical Society**. Published by the Psionic Medical Society in the England only from 1975-1977. **The USPA Library needs all issues.** 

**New Zealand Society of Dowsing & Radionics Journal**. Published by the New Zealand Society of Dowsing & Radionics from 1988-present. **The USPA Library needs all issues**.

**Pathoclast News:** This was a periodical published in Chicago, Illinois, by Ernest L. Fantus Co. It focused issues related to the use of the radionics device known as the pathoclast, as well as, other subjects related to radionics. It began publishing in the 1930s or 1940s and published several issues, at least up through vol. 4, No. 1, but this issue is not dated, and it is not known if any other issues were ever published. **The USPA Library needs all issues of this periodical.** 

Pathometric Journal (Sometimes called the Pathoclast Journal): This was a periodical published in Chicago, Illinois, by the Universal Society of Pathometrists. It focused on issues related to the Pathoclast instrument, radionics, psychotronics, and related subjects. This periodical began with Vol. 1, No. 1 in 1929 and continued through at least Vol. 18, No. 3 (April, 1946), but it is uncertain if any issues were published after that date. In the late 1930s and early 1940s, it was called "Journal of the Universal Society of Pathometrists". The USPA Library needs all issues of this periodical. No known libraries in the world have this periodical in their collections. If any readers happen to have issues of this periodical, it would be greatly appreciated if you would xerox these issues and send them to the USPA Library. Please write to the editor (John Reed) ahead of time if you are willing to help: <a href="mailto:joreed43@gmail.com">joreed43@gmail.com</a>;

Pendulum: A Monthly Review of Radiesthesia: This was a monthly periodical published in London, England, by Markham House Press, Ltd. It was founded by F. A. Archdale and was edited by Egerton Sykes. It focused on all aspects of radiesthesia, pyramid energy, subtle energies, and related subjects. This periodical began with Vol. 1, No. 1 (October, 1950) and continued through at least Vol. 13, No.12 (Septmber, 1963), but it is uncertain if any issues were published after that date. The USPA Library has most of the issues of this periodial, but is missing several issues. Please see the "Among the Missing" section for a complete list of the missing issues.

**Physico-Clinical Medicine:** This journal was started in 1916 by the father of radionics, Dr. Albert Abrams, and continued to be published up through 1938, by Fred J. Hart, who took over the College of Electronic Medicine after Abrams died in 1924. **The USPA has all issues of this periodical, the only complete collection in the world.** The name was changed in 1939 to Journal of Electronic Medicine.

**Psionic Medicine (ISSN: 0033-2585)**. This was a periodical published in Hindhead, Surrey, England, by the Psionic Medical Society. It was originally edited by Dr. Aubrey Westlake, and focused on psionic medicine, and related subjets This periodical began with Vol. 1, No. 1 (Winter, 1969) and continued through at least Vol. 16, (2000), but it is

uncertain if any issues were published after that date. The USPA Library needs most issues of this periodical. Only one library in the world has this periodical in its colletion: The British Library, London, England. If any readers live near this library, it would be greatly appreciated if you would xerox these issues and send them to the USPA Library. Please write to the editor (John Reed) ahead of time if you are willing to help: joreed43@gmail.com;

Psychic Research Neswletter (Marcel Vogel): Volume 1, No. 1 (May-June, 1984) through Vol. 5, No. 4 (July-August, 1988) This is the periodical that Marcel Vogel published in the 1980's as part of his research organization, Psychic Research, Inc. in San Jose, California. The title of the periodical is really a misnomer, as is the name of hiresearch organization, because the periodical deals almost exclusively with Vogel's and other's research on crystals and their use in healing, and very little with psychic matters. The USPA Library has all known issues.

Psychoenergetic Systems: This periodical was published by Gordon & Breach Science Publications in New York City, and focused on psychotronic related subjects. It began with vol. 1, no. 1 in December, 1974, and continued with this title until 1981, when the title was changed to "Psychoenergetics" (ISSN: 0278-6060) with the April, 1981, issue. It then continued under this title until 1988, when the title was again changed to "Theoretical Parapsychology" (ISSN: 0894-2528). However, only one issue (vol. 6, no. 1) was ever published under this title, after which it ceased publication. The USPA Library needs all issues of this periodical.

**Psychotronik:** This periodical was published in Innsbruch, Austria, and focused on radionics and psychotronics related subjects. It began with Vol. 1, No. 1 in 1977, but ceased with Vol. 3 in 1979. **The USPA Library needs all issues of this periodical.** 

**Quantum Medicine:** This periodical was published by the Association of Eclectic Physicians in Savannah, Georgia, and focused on quantum related treatments of medical disorders. It began with vol. 1, no. 1 in 1988, but only a few issues were ever published before it went out of business. **The USPA Library needs all issues of this periodical.** 

**Radiesthesia.** Published by the Dowser's Club of South Australia, and began in 1992. **The USPA Library needs all issues.** 

**Radio Perception**. This was the original title of the Journal of the British Society of Dowsers, which began in 1933 and was published under that name until around 1956, when its name was changed to the Journal of the British Society of Dowsers, and continues today under the name, Dowsing Today. **The USPA Library needs all issues.** 

Radionic - Magnetic Centre Newsletter: This was a quarterly periodical published in Oxford, England, headed by the Radionic-Magnetic Centre Organization, also known as the Radionic Centre Organization. It focused on radionics, subtle energies and realted subjects This periodical began with Vol. 1, No. 1 (Autumn, 1967) and continued through at least Winter, 1978, but it is uncertain if any issues were published after that date. The USPA Library needs all issues of this periodical. Only one library in the world has this periodical in its collection: The British Library. If any readers live near this library, it

would be greatly appreciated if you would xerox these issues and send them to the USPA Library. Please write to the editor (John Reed) ahead of time if you are willing to help: joreed43@gmail.com;

Radionics Journal: Published by the Radionics Association in England from 1954 through the present. The USPA Library has a complete set of these from Vol. 1, no. 1 (1954), through 2005, but needs all issues published after 2005.

Radionics Network Newsletter: Vol. 1, No. 1 (January-February, 1993); Last Known issue: Vol. 4, No. 6 (November-December, 1996); Published by the Radionics Network, New South Wales, Australia; The USPA Library has Vol.1, No.1 (Jan.-Feb., 1993) through Vol.5, No.1 (Jan.-Feb., 1997), but needs all issues published since then.

**Radionik Newsletter:** This periodical is published by the German School of Radionics (GSR), an organization founded by Claudio Romanazzi in Germany in 1994. It is a monthly, and began with issue No. 1 in 2006, and has been published continuously since then. **The USPA Library needs all issues of this periodical.** 

Research Report (Electronic Medical Foundation): This periodical was published by the Electronic Medical Foundation in San Francisco, California, beginning in the late 1940s, although the date of the first issue is unknown. Research Report No. 5 was published in 1949, but the exact date of that issue is also unknown, because it is undated. It is not known if any issues after No. 5 were ever published. The USPA Library has only issue No. 5, and needs issues No 1 through No. 4, as well as, any issues that were published after No. 5.

**Resonance:** Newsletter of the Bioelectromagnetics Special Interest Group (BEM SIG) of American Mensa during the 1980s and 1990s. **The USPA Library has a complete set of this rare periodical**;

**Subtle Energies:** (ISSN: 1084-2209) This was the original title of the periodical, **Subtle Energies and Energy Medicine**, when it began publishing in 1990. The title was changed to Subtle Energies and Energy Medicine in 1996.

**Subtle Energies and Energy Medicine:** Published by the International Society for the Study of Subtle Energies and Energy Medicine (ISSSEEM) from 1990 through the present, with some interruptions. **The USPA Library needs most of the issues of this periodical**;

**The Radiant News:** Vol. 1, Issue 0 [zero] (March, 2001) through Vol. 1, No. 12 (May, 2002), after which it ceased publication. Published by Peter Lindemann of Clear Tech, Inc. **The USPA Library has all 13 issues.** 

The Radionic Homestead Report: This periodical was a periodical published by Lutie Larsen and Little Farm Research in Pleasant Grove, Utah. It began with the first issue being May, 1988. It is not known how many issues were published, or when it ceased publication. The USPA Library needs all issues, except the first issue (May, 1988) and vol. 3, no. 4 (August-September, 1990), which are the only two issues in the USPA Library.

**USPA Newsletter:** Published by the United States Psychotronic Association from 1977 through present. **The USPA Library needs most of these issues.** 

**Visible Spectrum Researcher:** This was a periodical published by the Visible Spectrum Research Institute in Malaga, New Jersey, USA. It was edited by Dinshah P. Ghadiali and was published monthly, focusing on color and light therapy. It began with vol. 1, no. 1 (January, 1955), and published issues through at least vol. 3, no. 1 (January,1957). It is not known if any issues were published beyond that date. **The USPA Library needs all issues of this periodical.** 

**Zeitschrift fuer Radiaesthesie und Harmoniefindung (Journal of Radiesthesia and Harmonization) (ISSN: 2191-0103)** This journal is published in Munich, Germany by Herald-Verlag, and focuses on radiesthsia and related subjects. It was founded in with Vol. 1, No. 1 in 1950 by Dr. Franz Wetzel (1888-1956), and continues to be published at present. The former title from 1950-2010 was: **Zeitschrift fuer Radiaesthesie** (Germany) (0044-3425). **The USPA Library needs all issues of this periodical.** 

Zeitschrift RGS (Radiesthesie - Geopathie - Strahlenbiologie); (Journal of Radiesthesia, Geopathy, and Radiation Biology): This was a radiesthesia and radionics periodical published by the Schweizerische Gesellschaft für Radiästhesie (Swiss Society of Radiesthesia) in St. Gallen, Switzerland. It began publishing around 1949, although the date is uncertain, and the title was changed at some point to "Schweizerische Zeitschrift für Radiästhesie, Radionik, Geopathie, Strahlenbiologie" (Swiss Journal of Radiesthesia, Radionics, Geopathy, and Radiation Biology). It was still being published in 2014, with issue No. 291 being published during that year. The USPA Library needs all issues of this periodical.

# **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 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: <a href="mailto:joreed43@gmail.com">joreed43@gmail.com</a> 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 <a href="www.meetup.com">www.meetup.com</a>, 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

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

#### **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 simutaneously, 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**, <a href="mailto:robertdixondc@gmail.com">robertdixondc@gmail.com</a> or <a href="mailto:call">call</a> (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: <a href="http://www.kellyresearchtech.com">http://www.kellyresearchtech.com</a>

Asking a very reasonable \$2499,00 plus \$100.00shipping to the lower 48 states.

Please contact saminox@hotmail.com.

# United States Psychotronics Association (USPA) Officers and Board Members

#### Officers:

President: Beverly Rubik, Ph.D. email: <a href="mailto:brubik@earthlink.net">brubik@earthlink.net</a>

Vice President: John Klimo, Ph.D. email: <a href="mailto:JonKlimoidealism@gmail.com">JonKlimoidealism@gmail.com</a>

Vice President: Lutie Larsen email: <a href="mailto:lutielarsen@mac.com">lutielarsen@mac.com</a>

Vice President: Linda Lancaster, N.D. email: <a href="mailto:drlinda@lightharmonics.com">drlinda@lightharmonics.com</a>

Secretary / Treasurer: Scott Beutlich email: contact@psychotronics.org

Executive Secretary: Daniel Taylor email: <a href="mailto:dnltlr@hotmail.com">dnltlr@hotmail.com</a>

Conference Consultant & Membership Coordinator: Phyllis Weiland

email: phylkat@ameritech.net

#### **Board Members:**

Chairman of the Board: Marty Lucas email: marty@everyadvantage.net

**Member:** Beverly Rubik, Ph.D. email: brubik@earthlink.net

**Member:** Lutie Larsen email: <u>lutielarsen@mac.com</u>

**Member:** Linda Lancaster, N.D. email: <a href="mailto:drlinda@lightharmonics.com">drlinda@lightharmonics.com</a>

**Member:** Ed Kelly email: ed@kellyresearchtech.com

**Member:** Glen Rein, Ph.D. email: <a href="mailto:reinglen@gmail.com">reinglen@gmail.com</a>

**Member:** Daniel Taylor email: dnltlr@hotmail.com

**Member:** George Kuepper email: <a href="mailto:georgekuepper@yahoo.com">georgekuepper@yahoo.com</a>

**Member:** John Reed, M.D. email: joreed43@gmail.com

#### WHAT IS PSYCHOTRONICS?

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:

- 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 <u>joreed43@gmail.com</u> for whatever item(s) you are seeking;
- 2. Your free subscription to the USPA Journal & Newsletter;
- Your right to freely publish articles in the <u>WISE Journal The Journal of the World Institute for Scientific Exploration</u> (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.
- 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 fol	ollowing information: Date
Name	
Email	
Mailing Address:	
City	St Zip Code
County	Country
Phone	Cell Phone
I am interested in the following Fields:	
GeneralHealing	New Age PhysicsRadionics
DowsingSubtle Energy	Research Other Interests (Please specify)
Do you want to be listed in the USPA Mem	bership Directory?YesNo
Type of Membership desired:	
One Year @ \$35 2 Years @ \$6	03Years @ \$85
Full Time Student @\$20	
Member of the Military @\$20	
Family Member Membership @\$30 per	r Person
2 <sup>nd</sup> Family Member	Email
3 <sup>rd</sup> Family Member	
	Email
Fees	Payable to USPA in U.S. Dollars only:
Amount Enclosed: \$	Check or Money Order Number
Send via PayPal to uspsychotronics@y	rahoo.com
Receive a PayPal Bill (Your PayPal ema	ail)
Visa or Master Card #	
Name on Card	Signature
Billing Address	
If you wish to register online, you may go to	o https://uspsychotronics.configio.com

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:

**Scott Beutlich** USPA, 525 Juanita Vista Crystal Lake, IL 60014

Email: uspsychotronics@yahoo.com

Until the online order site is ready, you can print out the last page of this PDF and fill it in. You can scan it and email it to us, or send it via snail mail. For now, payment is by Check, Money order, or Pay Pal.

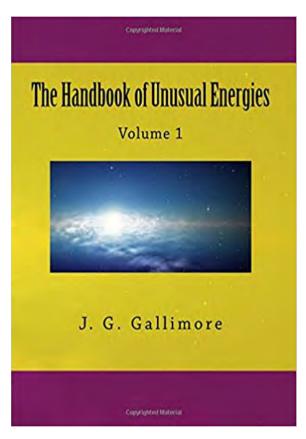
Thanks for your interest, and good luck with your research.

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

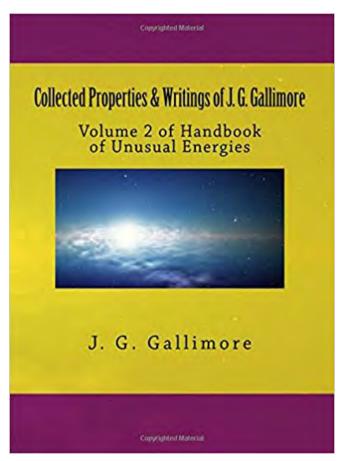
inches

## 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 an 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

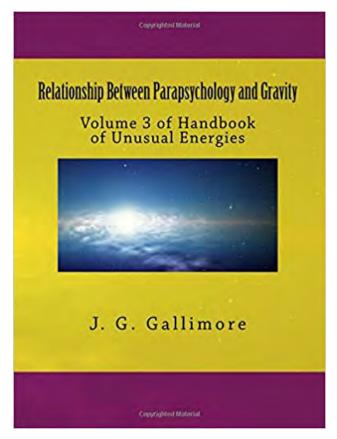
Product Dimensions: 8.5 x 0.6 x 11

inches

## Available at Amazon.com

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

Callimore published. It covers Gallimores 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. I very interesting interview of Chritopher 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)

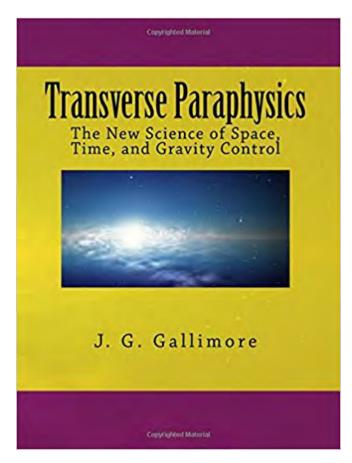
**Language:** English **ISBN-10:** 1543024947 **ISBN-13:** 978-1543024944

**Product Dimensions:** 8.5 x 0.5 x 11

inches.

**Available at Amazon.com** 

The Relationship Between Parapsychology and Gravity is Volume 3 of J.G. Galimore'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 "odic 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)

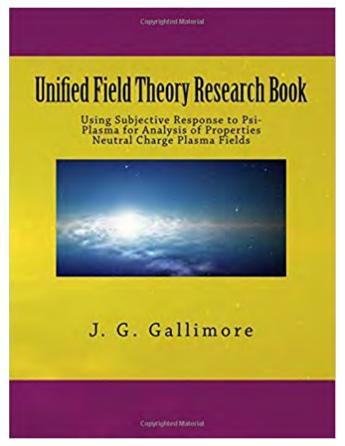
**Language:** English **ISBN-10:** 1543024920 **ISBN-13:** 978-1543024920

**Product Dimensions:** 8.5 x 0.8 x 11

inches

**Available at Amazon.com** 

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** 

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.