The BioElectric Shield®:
Unique Deterrent to Computer Related Muscle Weakness and Fatigue

Summary: Charles W. Brown, D.C. and Melinda Payne, M.D. respond to questions regarding a new device called the BioElectric Shield.

CHARLES W. BROWN, D.C., MELINDA PAYNE, M.D. AND STANLEY H. KORNAUSER, PH.D.

Dr. Kornhauser: What is electromagnetic radiation?

Dr. Brown and Dr. Payne: Electromagnetic field radiation, or EMF, refers to certain types of electromagnetic fields surrounding any area where current is produced. Any device powered by electricity (including batteries) will produce varying amounts of EMF. Computers, cell phones, appliances, autos, airplanes, and remote controls all produce EMF.

Dr. Kornhauser: In the literature, what has been reported as possible side effects to EMF?

Dr. Brown: Worldwide research has reported a range of reactions to exposure to EMF. In some studies, no statistically significant effect was noted. In many other studies effects included headaches, fatigue, hormonal abnormalities, miscarriages, reduced immune system function, and several different types of cancer.

Dr. Kornhauser: What do you notice in your own practices?

Dr. Brown: I notice that patients who worked long hours in front of a computer monitor report fatigue, headaches, and feelings of stress far more frequently than the rest of my patient population. In addition, my other chiropractic patients who do not work around computers and other office equipment or cell phones seem to need treatments much less frequently.

Dr. Payne: Many of my patients who spend four consecutive hours or more at their computer complain of headaches and increased depression.

Dr. Kornhauser: Is there any known intervention to exposure to certain kinds of electromagnetic fields?

Dr. Brown and Dr. Payne: Max von Laue won a Nobel Prize in Physics in 1914 by showing that x-rays could be reflected and redirected with a zinc-sulfide crystal (ZnS), in much the same way as mirrors are used to reflect and direct visible light. William Bragg won the Nobel Prize in 1915 for establishing “Bragg’s Law” which determines the specific crystal spacing (i.e. the specific lattice spacing) needed to reflect and redirect any type of electromagnetic energy. Since then, scientists have used natural crystals to reflect and redirect other types of electromagnetic radiation (like gamma rays).
Modern science also has made extensive use of the fact that different crystals "resonate" at different frequencies. The first short-wave radios and electric watches were made of quartz crystals, because quartz amplifies and stabilizes only certain fixed frequencies of vibration. For the same reason, the first lasers were made from rubies.

**Dr. Kornhauser:** How was the BioElectric Shield developed?

**Dr. Brown:** Based on the principles just outlined, I designed several crystal matrixes with the hopes that one of them would both stabilize and amplify the human frequency by resonating with the person wearing the matrix of crystals. Then, I hypothesized that if it did this, it would naturally reflect and redirect frequencies that were significantly different from the fixed frequency it would take on when it resonated with each person.

**Dr. Kornhauser:** How did you propose to test its effectiveness?

**Dr. Brown and Dr. Payne:** Many patients complain of fatigue after spending time in front of a computer.

The medical definition of fatigue: "That state, following a period of mental or bodily activity, characterized by a lessened capacity for work and reduced efficiency of accomplishment, usually accompanied by a feeling of weariness, sleepiness, or irritability: may also supervene when, from any cause, energy expenditure outstrips restorative processes and may be confined to a single organ.

One aspect of fatigue was selected for quantifying "less capacity for work" was measured by the Hoggan Microfet. This machine can measure muscle strength, one indication of muscle work capacity. If the body was unaffected by the EMF, muscle strength should remain unchanged. No normal person would lose any significant strength sitting in a chair for 10 minutes, the length of time required to complete the testing situation.

The main goal of the research was to observe 2 phenomena.
1. Would work capacity be lessened (as measured by muscle strength) with exposure to a measured source of EMF (from a computer and color monitor)?
2. Would the crystal matrix, i.e., the BioElectric Shield, alter work capacity back to normal if it had been weakened by the EMF exposure?

**Dr. Kornhauser:** Could you describe the study you have done with computer monitors?

**Dr. Brown:** Twenty-five subjects were tested under three conditions: no exposure, normal sitting distance exposure for 5 minutes, and wearing the Shield at a normal sitting distance for 5 additional minutes.

1) First condition- an initial supraspinatus muscle strength reading was taken without a strong electromagnetic field. (The subjects were 12+ feet away from the computer.)

2) Second condition- each test subject sat in front of a computer and watched a 14" color monitor for 5 minutes. A second reading was taken.

3) Third condition- a BioElectric Shield was hung around the subject's neck so that the Shield was positioned in the lower sternal region, corresponding to the neurolymphatic point for the diaphragm, and the acupuncture point, conception vessel 18. After this was worn for 5 minutes, a third strength reading was taken.

**Dr. Kornhauser:** Why did you choose the supraspinatus muscle for testing strength?

**Dr. Brown and Dr. Payne:** The supraspinatus muscle was chosen as the indicator muscle because this corresponds to the brain and the nervous system. Because the brain monitors and controls all other functions in the body, this was deemed to be the most relevant muscle/organ association. G2, or patient initiated muscle testing was used because this involves polysynaptic relays which include spinal cord relays as well as higher brain centers. A five minute interval was allowed between testing so muscle fatigue would not be a factor in reduced muscle strengths.

**Dr. Kornhauser:** What controls and monitors were used to insure reliability?

**Dr. Brown and Dr. Payne:** A Hoggan Compufet transducer with computerized recording equipment was used to document each muscle strength reading. The Compufet, now named the Microfet, is used in hospitals all over the world to measure small changes in strength in patients who have injured muscles. The device is widely accepted by physicians and researchers for accuracy and reliability. Patients were all exposed to the same equipment and the same screen content as measured
distances for exactly 5 minutes per trial as calculated with a stopwatch with an alarm when the time was finished.

**Dr. Kornhauser: What were the results?**

**Dr. Brown and Dr. Payne:** Twenty-four of the 25 test subjects had reduced muscle strength readings after being in the EMF for five minutes (testing condition #2). The average amount of decreased muscle strength was 16.52%. After wearing the BioElectric Shield for 5 minutes, all 25 subjects showed an increase in muscle strength. The average increase in strength was 25.75%. Below are readings from 4 subjects:

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<td>Trial 3: 27.5 lbs</td>
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**Dr. Kornhauser: What benefits could the BioElectric Shield technology provide computer and cell phone users?**

**Dr. Brown and Dr. Payne:** Patients who have worn the BioElectric Shield have reported benefits that vary with the individual. Patients who have work the BioElectric Shield have reported benefits consistent with less fatigue, i.e. greater energy and concentration throughout the day.

**REFERENCES**


For specific product information, and testing procedures, you can contact: The BioElectric Company, 63 Windsong Way, Lavina, Mt. 59046, 1-800-217-8573, fax 1-406-575-4468, or via email: bioshield@middrivers.com Web site information: www.bioelectricshield.com
THE AUTHORS
CHARLES BROWN, DC, DABCN is the inventor of the BioElectric Shield. As a Diplomate in chiropractic neurology, he has been in private practice for 20 years and is an active member of the Montana Chiropractic Association, the Yellowstone Chiropractic Association, the American Chiropractic Association (ACA), and the ACA’s Council on Neurology. Dr. Brown graduated with honors from Palmer College of Chiropractic and taught anatomy at Boston University and the New England Institute of Massage Therapy. He is also a member of the International College of Applied Kinesiologists. He is currently working on other inventions.

MELINDA LEE PAYNE, MD is an examiner for the American Board of Psychiatry and Neurology and Instructor for Family Practice Residency at the Deering Clinic in Billings, MT. She has a full time private practice in Adult, Adolescent, and Child Psychiatry and provides inpatient care evaluations for children and adolescents at the Deaconess Psychiatric Center in Billings. Dr. Payne is a member of the American Board of Child and Adolescent Psychiatry. She received her MD in 1979 from the University of Cincinnati College of Medicine Medical School. She published “Water Intoxication Secondary to Feeding Mismanagement: A Preventable Form of Familial Seizure Disorder in Infants,” American Journal of Diseases of Children, January 1981, Volume 135.

STANLEY KORNHAUSER, Ph.D., is the Founder and Director for the National Institute of Electromedical Information, dedicated to education, training and research, and to the sharing of original contributions on clinical themes and experimental work in those sciences which underlie the modern concepts of electromedicine. Dr. Kornhauser holds membership in the Society for Ambulatory Care Professionals, American College of Integrated Delivery Systems, American Academy of Medical Administrators, and is a Faculty Associate of the American College of Health Care Executives. He also holds consultancies as Executive Vice President for the Greater New York Safety Council, the New York Consumer Assembly, and serves on the Advisory Boards of the Medical Manufacturers Information Council and Neuro Corp Ltd. Dr. Kornhauser is currently Chief Operating Officer at the Queens Surgi-Center, a Multi-specialty Ambulatory Surgery Center, 83-40 Woodhaven Blvd., Glendale, NY 11385. 718/849-8700 FAX 718/849-6523.
For more information about the BioElectric Shield Company please visit our website: http://www.bioelectricshield.com

A YouTube Video EMF Device Product Review by Dr. David Getoff: http://www.bioelectricshield.com/Content/Welcome-to-Our-Company.html#getoff_1

Choosing a Shield: http://www.bioelectricshield.com/About-the-Shield/How-to-Choose-a-BioElectric-Shield.html


How Invented: http://www.bioelectricshield.com/About-the-Shield/How-the-Shield-Was-Invented.html

The BioElectric Shield Company has been dedicated to helping create a more balanced and peaceful world one person at a time since 1990.

In the 1980’s, when Dr. Charles Brown, DABCN, (Diplomate American College of Chiropractic Neurologists), the inventor of the Shield, became aware that a certain group of his patients exhibited consistent symptoms of stress and a slower rate of healing that the rest of his patient population. This group of patients all worked long hours in front of CRT computer screens for many hours a day, and usually 6 days a week. He began researching the effects of electromagnetic radiation in the literature, and found there were many associated health effects. He wanted to help these patients, and hoped that he could come up with a low-tech, high effect product.

In 1989, he had a series of waking dream that showed him a specific pattern of crystals. Each of 3 dreams clarified the placement of the crystals. He showed the patterns to an individual who can see energy and she confirmed that the pattern produced several positive effects. She explained that the Shield interacts with a person’s energy field (aura) to strengthen and balance it. Effectively it created a cocoon of energy that deflects away energies that are not compatible. In addition, the Shield acts to balance the physical, mental, emotional and spiritual bodies of the aura.

A series of studies was conducted to investigate the possible protection from EMF’s wearing this kind of device. Happily the studies were consistent in showing that people remained strong when exposed to these frequencies. Without the shield, most people showed measurable weakening in the presence of both EMF’s and stress. Of interest to us was that these same effects were noted when people IMAGINED stress in their lives. It seems obvious that how we think and what we are exposed to physically both have an energy impact on us. The Shield addresses energy issues-stabilizing a person's energy in adverse conditions. See “How the Shield Works” for more information.

Since that time, we have sold tens of thousands of Shields and had feedback from more people than we could possibly list. Here are just a few of the testimonials we have gotten back from Shield wearers.

Dr. David Getoff was one of the earliest practitioners to begin wearing a Shield and doing his own testing with patients with very good results (video).
OUR MISSION

Our mission is to make the BioElectric Shield available worldwide. In doing so, we feel we are part of the solution to the health crisis that is, in part, caused by exposure to electromagnetic radiation and well as exposure to massive amounts of stress, from situations and other people’s energy.

We also want to bring more peace, balance and joy to the world - and the Shield offers a vibration of peace, love, and balance in a world filled with fear and uncertainty. Selling a Shield may seem like a small thing in the scheme of things, but each Shield helps one more person find a greater sense of ease, balance and protection, allowing them to focus on living their dreams.

To enhance your sense of well-being, (In addition to the Shield, ) we offer other products that provide health and wellness benefits on many levels.

By working together we can, and are, accomplishing miracles.

Charles W. Brown, D.C., D.A.B.C.N.

Dr. Brown graduated in 1979 with honors from Palmer College of Chiropractic. He is a Diplomate of the National Board of Chiropractic Examiners and a Diplomate of the American Board of Chiropractic Neurologists. He also is certified in Applied Kinesiology. Dr. Brown has had his own radio show "Health Tips". Additionally, he has taught anatomy at Boston University and the New England Institute of Massage Therapy.

He invented the BioElectric Shield, Conditioning Yourself for Peak Performance (a DVD of series of Peak Performance Postures with Declarations) and Dr. Brown’s Dust and Allergy Air Filters, as well as Dr. Brown’s Dust and Allergy Anti-Microbial, Anti-Viral Spray. He is presently working on other inventions.

Dr. Brown’s experience of the Shield is that it has helped him move deeper into spiritual realms, quantum energy, and creative meditative spaces. It has always been his desire to help others, and he is grateful that the Shield is helping so many people worldwide.

Virginia Bonta Brown, M.S., O.T.R.

As child, I always wanted others feel better. As a teenager, I volunteered as a Candy Striper at the local hospital, wheeling around a cart of gifts to patients’ rooms. The hospital setting didn’t really draw me, so summers were spend teaching tennis to kids at a wonderful camp in Vermont. With the idea of becoming a psychologist, I received a B.S. degree from Hollins College in
psychology and worked with drug addicts for a year. Called by the practicality of Occupational Therapy, I received an M.S. degree in Occupational Therapy from Boston University in 1974.

For the next 16 years, working with ADD, ADHD, autistic and other special needs children was my passion. Because of my specialty in Sensory Integration Dysfunction (a technique based on neurology), I met Anne Shumway Cook, RPT, PhD, a brilliant PT, with a PhD in neurophysiology. We created special therapy techniques for children with vestibular (balance and position in space) dysfunction while she worked with the Vestibular Treatment Center at Good Samaritan, and while I managed the therapy services of the Children's Program at this same hospital in Portland, Oregon. A fun project at that time also included collaborating with a team of other therapists to create a therapy in the public schools manual for OT, PT and Adapted PT procedures. It included goals and treatment plans which has served as a model for nearly every school district in the United States. There was nothing quite so satisfying as seeing a child move from frustration to joy as they began to master their coordination and perceptual skills.

For the next seven years, I shifted my focus. Married to Dr. Charles Brown, we decided that I’d begin to work with him in his Pain and Allergy Clinic, first in Boston and then in Billings, Montana. During this time I began to hear people talk about how thoroughly stressed out they were by their job environment. Their neck and shoulders hurt from sitting in front of computer screens. They were fatigued and overloaded dealing with deadlines and other stressed out people! They wanted to be sheltered from the “storm” of life. Though conversation, myofascial deep tissue and cranio-sacral therapy helped them, the stress never disappeared. It was our patients who really let us know that something that managed their environment and their energy would be a wonderful miracle in their lives.

What could we do to help them? I became an OT so I could help children and adults accomplish whatever it was that they wanted to do. When my husband, Dr. Brown, invented the Shield, initially I felt I was abandoning my patients. Running the company meant I didn’t spend as much time in the clinic. But then I saw what the Shield was accomplishing with people. They got Shields and their lives began to improve. People told me they felt less overwhelmed, didn’t get the headaches in front of the computer, were less affected by other people’s energy and enjoyed life more. I began noticing the same thing!

In 2000, we received a request for a customized shield for a child with ADD/ADHD. After it was designed, our consultant told us that she could create a special shield that would help any person with these symptoms. Read more about the ADD/ADHD Shield.

When we started the company in 1990, I was still seeing patients nearly full time. I was wearing the Shield and began to notice something different about my own life. At the clinic, I noticed my energy was very steady all day. Instead of being exhausted at the end of the day, particularly when I had treated particularly needy patients, I was pleasantly tired and content. I noticed I was more detached from the patient’s problem. In other words, I didn’t allow it to tire me. Instead I became more compassionate and intuitive about what they needed to help them. I was able to hear my Guides more clearly as they helped me help them. As I wore it during meditation, I felt myself go deeper into a space of Unity of all things, from people to mountains to stars.
Over the years, I’ve spoken with many, many people, from all walks of life. Because they consistently tell me how much it’s helped them, I become more committed each year to offer this to as many people as possible. It is my belief that the Shield is a gift from the Divine, and that those who wear it will be helped on earth to accomplish their own mission, with greater health and greater compassion. For this reason, it is my desire to provide the blessing of the BioElectric Shield to as many people as possible.

Carolyn (Workinger) Nau:

I joined the BioElectric Shield Company in January 1994 when the shipping and order department consisted of one computer and a card table. With my help, the company grew to what it is today. From 1994 to 2000 I traveled and did approximately 100 trade shows, talking to people, muscle testing and really finding out how much difference the Shield makes in people’s lives.

An empath and natural intuitive, I have personally found the Shield to be one of my most important and valued possessions, as it assists me in not taking on everyone else’s stuff. That ability has also been invaluable when I talk to and connect with clients in person, over the phone or even via email. I am frequently able to “tune in” and help advise on the best Shield choice for an individual.

I felt a strong pull to move to California and reluctantly left the company in 2000. While in California I met the love of my life, David Nau. After being married on the pier in Capitola, we relocated to Milwaukee, Wisconsin where he’d accepted a job as design director of an award winning exhibit firm. David is an artist and designer, and has taken all the newest photos of the Shields. They are the most beautiful and accurate images we have ever had!

Through the magic of the internet I was able to return to working with the company in January 2008. I love how things have changed to allow me to live where I want and work from home. I am fully involved and even more excited about the Shield’s benefits and the need for people to be strengthened and protected. I am thrilled to be back and loving connecting with old and new customers. I am thrilled to be back and loving connecting with old and new customers. It’s great to pick up the phone and have someone say, “Wow, I remember you. You sold me a Shield in Vegas in 1999”

How did I get started making Energy Necklaces? It's not every day that going to a trade show can totally change your life. It did mine. I must have been ready for a drastic change. I just didn't know it. I guess I’ve just always been a natural Quester.

Quite by chance, I went to the Bead and Button Show in Milwaukee. The show is an entire convention center filled with beads, baubles and semi-precious stones. I looked over my purchases at the end of the first day and realized I didn't have enough of some for earrings. So I went back with a friend who normally is the voice of reason. I thought if I got carried away she’d help me stop. Joke was on me.

I was unable to resist all those incredible goodies. My friend turned out to be a very bad influence, she’d find fabulous things and hold semi-precious and even precious stones in front of me saying "Have you seen this?". How can a woman resist all that beauty? I can’t! I couldn’t. I walked out with a suitcase full of beads and stones. The only problem was, I didn’t even know how to make jewelry.
I spent the summer taking classes, reading books, practicing jewelry making. Immediately people were stopping me in the street asking about the jewelry I was wearing. It finally dawned on me that just maybe I was meant to design and share my creations. Thus Carolyn Creation was born. (It’s creation, not creations, because each piece is a one-of-a-kind hand-made creation).

I still laugh about this whole process. Obviously the Universe or someone was guiding me. Looking back it should have been obvious that I was buying enough to start a business. But at the time, it just felt like the right thing to do. Not a conscious plan. Sometimes following your gut can change your life.

In the fall of 2008, I felt a pull to examine how various gemstones could enhance the protective and healing effects of the BioElectric Shield. I also wanted to wear great jewelry and my gold and diamond Shield at the same time, so I created something new so I could do that. After making a few “Shield energy necklaces”, I was convinced that not only was my jewelry beautiful and fun to wear, it had additional healing qualities as well. Since then I’ve been immersed in studying stones and their properties, paying particular attention to the magical transformation that happens when stones are combined. Much like the Shield, the combined properties of the stones in my jewelry are more powerful than the same combination of stones loose in your hand. To view gem properties and styles to complement your shield, please visit Shield Energy necklaces.

David Nau:

We’re pleased to have added David to our team. David is an award winning creative designer who readily calls on the wide variety of experience he has gained in a design career spanning over thirty years. His familiarity with the business allows him to create a stunning design, but also one that works for the needs of the client. The design has impact, and functions as needed for a successful event. Having owned his own business, David maintains awareness of cost as he designs, assuring the most value achieved within a budget.

A Graduate of Pratt Institute, Brooklyn, NY, David’s career has included positions as Senior Exhibit Designer, Owner of an exhibit design company, Design Director, and Salesman. This variety of positions has provided experience in all phases of the exhibit business; designing, quoting, selling, directly working with clients, interfacing with builders and manufacturers, staging and supervising set-up.

David has worked closely with many key clients in the branding of their products and themselves in all phases of marketing, both within and outside the tradeshow realm. He has designed tradeshow exhibits, museum environments and showrooms for many large accounts including Kodak, Commerce One, Candela Laser, The Holmes Group, Kendell Hospital Products, Enterasys, Stratus, Pfizer, Ligand Medical, Polaroid, Welch Allyn, and Nortel. He has also designed museum and visitor centers for Charlottesville, NASA Goddard, Hartford and Boston children’s museums.

David’s artistic eye has added to other aspects of our BioElectric Shield site and we appreciate his ongoing contributions. David is currently unemployed and so has started going to trade shows with Carolyn. For someone who has been designing trade shows for 35 years actually being in the booth he designed is a whole new experience for him.

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Sam Sokol

Sam is our Internet consultant, bringing expertise and wisdom to this area of communication for our company. Sam works with a wide variety of companies in many industries to build, market and maintain their online presence. He has helped both small and big companies to increase their online sales and build their businesses. He has helped us to grow BioElectric Shield by giving us direct access to great tools to make changes to our web site.

Dedicated to helping create a more balanced and peaceful world one person at a time. Let's change our lives and our worlds one thought, one action at a time.