Integrative Health Systems™, LLC

"One Cell One Light"

Mr. Richard L. Cain
Private Attorney General
P.O. Box 91756
Santa Barbara, CA 93190

July 8, 2013

Phone: 805-455-4700

INDUSTRIAL TOXICOLOGICAL COMPARATIVE REPORT ON EMISSION OF FREQUENCY SIGNALS FROM THE HUMAN BODY AND THEIR ORIGINS

Referenced Reports

- Preliminary Report of Ms. Melinda Kidder, Private Investigator, Columbia ~ dated July 6, 2013, Investigations, Columbia, Missouri
- Image of Electrode placement on the abductor hallucis muscle
- Image Your Child's Brain
- Image of Three Vibratory Principles in Polarity Therapy

Introduction and Prior Report History

On Monday, July 1, 2013 Mr. Richard L. Cain, sons' Christopher A. Cain and Cayden A. Cain were tested for independent wave guide frequencies and the emission of frequencies from their bodies by Ms. Melinda Kidder, Private Investigator, Columbia Investigations, and Columbia, Missouri. (See attached preliminary copy of Ms. Melinda Kidder Report dated July 6, 2013). The results of Ms. Kidder's testing did determine that Mr. Richard Cain and sons on July 1, 2013 were experiencing specific signal ranges on the 2.86 GHz range of the ACECO/RFID equipment within the room facility. By holding the ACECO equipment at certain points near the body, there was no observation that would impact a change in the signals.

It is important to note that the wave guide frequencies identified in Ms. Melinda Kidder's report dated July 6, 2013 clearly states that the frequency signals were not being emitted from the body. The frequency signals would change when Mr. Richard Cain, Christopher Cain and/or Cayden Cain would be present within the testing room location. This means that the materials within their bodies known as "foreign body" materials as found by Dr. Louis Teresi, MD as stated in the Kidder Report are possibly receivers vs. emitters.

The individuals would receive a signal frequency transmissions (and/or multiple transmissions), that would be received by the materials within the body, thus allowing the body to be monitored, react (twitch/jerk) or become stimulated. The aspect of stimulation

may also cause specific neurological physiological reactions, behavior responses, or metabolic enzymatic reactions, neurotransmitter stimulation reactions and/or other similar reacations/responses.

The type of technology that would have to be surgically implanted, may be an "older" version, but with multi-wave guide functional monitoring systems as compared to directly emitting bio-nanosensors with a smart crystal mote sensor technology. The key being that multiple wave guide signal frequencies were being received in the Cains' presence vs. not being present when they were in a different location. This type of design may be signal frequency activated responses vs. emitting a signal like a "beacon."

The signals were as follows with an initial reading of 2.86 MHz with a back ground room at the following signal frequencies:

Mr. Richard Cain, Father

2545.475 MHz 2542.223 MHz 2543.967 MHz 2543.419 MHz
2542.534 MHz

Christopher A. Cain, Son

2567.921 MHz 2563.055 MHz 2559.721 MHz 2556.116 MHz
2554.888 MHz

Cayden A. Cain, Son

2569.014 MHz 2565.709 MHz 2559.123 MHz 2554.707 MHz
2552.258 MHz

A simple RF test was performed using the MCD-22H and no signals were detected on Mr. Richard Cain. The minor children were not tested with this device per Ms. Kidders report.

The Extech ELF/EMF Scan reading varied and that Ms. Kidder's report notes that the readings on Mr. Cain and his two sons were higher than any other individual tested by Columbia Investigations firm. Oscillations showed fairly consistent readings at 0.01 u back ground of the room they were tested in at 4:43 PM. It should be noted that Ms. Kidder's report also states that when Mr. Cain experienced "being hit" the room reading rose to 0.11 u. The readings during the course of testing Mr. Cain was 0.01 u to 0.21 u and that during the course of testing from one point to another, again, the highest reading Columbia Investigations firm has seen to date.

Mr. Richard Cain, Father (see Melinda Kidder Report dated July 6, 2013 Images)
Right Foot: calcaneus (plantar) 0.017 u; plantar surface of foot 0.15 u and at navicular; distal phlanges 0.05 u – 0.21 u.

Left Foot: dorsal surface 0.02-0.05 u from distal phlange to head of talus. Plantar foot surface 0.01 – 0.02 u.

Body: Mr. Cain's body readings were at 0.01 u except where shown in the images as stated in Ms. Kidder's report, which is attached to this report for convenience. The frequency signals were 0.01 u, 0.02 u, 0.03 u, 0.04 u, 0.05 u, 0.06 u, 0.07 u, 0.08 u, 0.09 u and 0.10 u and higher.

Posteriorly Body: Mr. Cain's body readings were 0.03 u at left skull base and 0.04 at the right skull base; 0.04 u at the right scapula, medially; 0.05 u at the left triceps; 0.03 u at the base of the lumbar curve; 0.07 u at the supralateral curve (TrP) of the right gluteus maximus: 0.03 u at the left anterior cruciate ligament. And 0.03 – 0.09 u atarting at the left hip flexor (iliopsoas) and rising to the left axilla, where the reading peaked per Ms. Kidder's report.

Anteriorly Body: Mr. Cain's body readings showed 0.03 u at two scars located on his forehead; 0.02 u at the nose; 0.03 u at a scar located at the chin; 0.05 u at a scar on the right cheek; 0.02 u at the right bicep where a lump could be felt and seen; 0.05 u at the left forearm superiorly and dorsally; 0.07 u at the left forearm, inferior, dorsal; 0.05 u at the groin; 0.03 – 0.05 u in flux at the left hip flexor; 0.03 u at the quadriceps, bilaterally; 0.02 u at the knees, bilaterally; 0.05-0.7 u at the left flank, in flux; 0.03-0.05 u at the right flank form hip bone to axilla. Most remarkable per report was that chest readings would take "swooping downward motion", forming even, yet slanted, bands, across the chest of Cain. 0.04 u from waist to next higher section, 0.03 to next superior section, 0.02 u to next superior section.

Christopher A. Cain, Son (See Melinda Kidder Report dated July 6, 2013 Images)
Top of the body downward: Crown of head 0.06 u anterior to right ear; 0.04 u at scar or blemish on right cheek; 0.0y u at left anterior hemisphere of skull; 0.03 at right anterior hemisphere of skull; 0.08 u at right chest; 0.07 u at left chest; 0.04 u at right bicep; 0.02 u at right forearm dorsal surface at median; from stomach to chest in a rising signal from 0.01 u to 0.03 u; 0.04 u at left forearm; 0.03 u at right thigh and quadriceps; 0.09 u at right chin; 0.05 u at the toes; 0.03 at the toes.

Posteriorly Body: 0.13 u at the center of the skull; 0.08 u at the left back; rising form 0.10 u – 0.16 u from the waist to the superior surface of the right scapula; 0.06 u in the form of a square around the glutemous maximus; 0.09 u at the median, superior gluteus maximus; 0.07 u at the median, interior gluteus maximus; 0.03 u at the superior and inferior edge of the hamstrings, bilaterally; 0.05 u at the median of the left hamstring; 0.04 u at the median of the right hamstring; and 0.02 u bilaterally at each knee.

Cayden A. Cain, Son
Anteriorly: 0.05 u at the median of forearm to elbow, bilaterally; 0.07 u bicep to shoulder, bilaterally; 0.12 u crown of head; 0.04 u at chin with the reading changing from 0.06 u – 0.12 u; 0.04 u at the right hemisphere of the skull; 0.11 u over the heart; 0.05 u over the chest and abdomen; 0.02 u at the left floating rib; 0.04 u from right thigh to ankle except for a small area of 0.03 u just at flux inferior to the right knee; 0.06 u at the dorsal surface of right foot; 0.04 u at plantar surface of left foot.

Posteriorly: almost in "zones," bilaterally: 0.0 u form gastrcnemius to knee; 0.03 from knee to gluteus; 0.05 u to gluteus; 0.u at the lumbar curve.

Night Vision Scope Results

Mr. Richard Cain's chin, back and left breast just below the pectoralis major towards the median showed hot. The minor children were not tested with this device per Ms. Melinda Kidder's report.

Ms. Melinda Kidder addresses in her report dated July 6, 2013 that the ELF/EMF readings for the Cain Family members (father and 2 sons) were the highest she has ever measured and witnessed as a detective. Also, she stated that Mr. Richard Cain did not have any recollection of the scarring and lumps under the skin at points, which he states that implants are present and have been verified by a medical third party.

The report also states that under UV lighting Mr. Cain was "hot," but did not state the UV-B color observed. The pigments (natural)/DNA plasmid and/or chemicals such as fluorescence thiocyanate may be part of monolithically integrated systems that may respond via photonics to specific wave guides. As the bionanosensor technology advances, the advanced computer circuit system will be coupled to the advanced nano material as a biometric remote monitoring system with SCADA interfacement.

Definition of a Wave Guide

A wave guide is a structure that guides waves, such as electromagnetic waves or sound waves. There are different types of waveguides for each type of wave. The original and most common meaning is a hollow conductive metal pipe used to carry high frequency radio waves, particularly microwaves.

The geometry of a waveguide reflects its function. Slab waveguides confine energy to travel only in one dimension, fiber or channel waveguides for two dimensions. The frequency of the transmitted wave also dictates the shape of a waveguide: an optical fiber guiding high-frequency light will not guide microwaves of a much lower frequency. As a rule of thumb, the width of a waveguide needs to be of the same order of magnitude as the wavelength of the guided wave.

Some naturally occurring structures can also act as waveguides. The SOFAR channel layer in the ocean can guide the sound of whale song across enormous distances.

A wave guide strip was present on the reverse side of her body as well, her right from toe to hip. The constant signal of 0.00 to 0.01 u or 0.02 is for a wave guide, which is used to repeat the signal of an internal bio-sensor and/or amplify the signal from external means to the biosensors within the body. Mr. Cain and his sons had frequency signals for wave guides at 0.01 to 0.21 and individual signals as stated in each person's test results. This range was from 0.01 to 0.17 u.

The wave guide ranges may have sub-nanoemitters, which may also be two or more individual nanoemitters that share High-Q modes of a microsphere resonator. The microspheres may be made of silicon, silica or other crystalline forms such as diamonds. These materials are utilized to receive and store data as it is being received by the

advanced computer analysis integrated systems via nanotechnology and will be specifically addressed further in this report. (See Gotzinger© 2006, article attached to this report.)

Frequency Identification and Its Correlation

The frequencies measured on July 6, 2013 on Mr. Richard Cain, his sons Christopher A. Cain and Cayden A. Cain by Ms. Melinda Kidder are within a frequency range of 2500 to 2690 MHz. These frequency ranges when identified by use as referenced in the US Federal Communications Commission Office of Engineering and Technology Policy and Rules Division. FCC Outline Table of Frequency Allocations (47 C.F.R. 2.106) Revised on May 25, 2012 states that the frequencies are from Region I. Section 5.410.

5.410 The band 2500-2690 MHz may be used for tropospheric scatter systems in Region 1, subject to agreement obtained under No. 9.21. Administrations shall make all practicable efforts to avoid developing new tropospheric scatter systems in this band. When planning new tropospheric scatter radio-relay links in this band, all possible measures shall be taken to avoid directing the antennas of these links towards the geostationary-satellite orbit. The frequency cited is for Region 1 (Fixed, Mobile except aeronautical mobile and broadcasting-satellite0; Region 2 (Fixed, Fixed-Satellite (space to Earth), Mobile except aeronautical mobile and Broadcasting-satellite); Region 3 (Fixed, Fixed-Satellite (space to Earth); Mobile except aeronautical mobile, Broadcasting-Satellite).

5.412 *Alternative allocation*: in Azerbaijan, Kyrgyzstan and Turkmenistan, the band 2500-2690 MHz is allocated to be fixed and mobile, except aeronautical mobile, services on a primary basis.

5.413 In the design of systems in the broadcasting-satellite service in the bands between 2500 MHz and 2690 MHz, administrations are urged to take all necessary steps to protect the radio astronomy service in the band 2690-2700 MHz.

5.415 The use of the bands 2500-2690 MHz in Region 2 and 2500-2535 MHz and 2655-2690 MHz in Region 3 by the fixed-satellite service is limited to national and regional systems, subject to agreement obtained under No. 9.21, giving particular attention to the broadcasting-satellite service in Region 1.

5.416 The use of the band 2520-2670 MHz by the broadcasting-satellite service is limited to national and regional systems for community reception, subject to agreement obtained under No. 9.21. The provisions of No. 9.19 shall be applied by administrations in this band in their bilateral and multilateral negotiations.

Specific Wave Guide Origins via Technology Development

The specific wave guide origins will be described in this section of the report by specific wave guide number and its function. It is important to note that the incorporation of advanced nano materials may be in single micros (nano) spheres, fibers, claws, hooks, wires, composites, matrix lattices, bio-scaffolds or other type specific advanced nano materials that are "smart materials" that have specific functions, such as anchoring on to nerves or nerve trees; utilizing bio-electrical current of the body in various magnetic fields.

(See attached diagram of various electromagnetic fields that may be generated from these materials as the enhance the electrical potential of the human body, thus allowing the human body to generate the electricity to run the hardwire of the equipment as it is linked to a remote source such as a satellite, computer, mobile phone, boat, unmanned air or water vehicle and other similar types of communication networks.)

Wave Guide Number and Explanations of Its Use

0.02 – to rectify the AC input with a full-wave diode bridge (Bicon Electronic Company)

0.00 – 0.02 Samsung Galaxy Note Z (2 Rom edition) Whompasurus Rom V1.0 (0.02/0.20) similar to Pac Man Rom V 23.00 (06/10)-electricily inductive impedance and acoustics and temperature monitoring (0.0/0.06) as used in digital thermometers, wave guide phase shifters for increment phase shift.

0.02 5.3 to 0.0244-0.0834 Scattering OP electromagnetic waves as referenced by Long.

0.0, 0.06, 0.02 – composite materials design guides for Air Force, DOD/NSA Advanced composite materials. Optical networks charted in non-line implementation of a label controlled arrayed waveguide packet router. The waves are similar to the oscillations produced by storm waves.

0.10, 0.05, 0.07, 0.01, 0.03, 0.07, 0.09 -0.06 utilzed in surface photometry of extra galactical nebula.

0.01, 0.02 utilized for spring wire rod excellings in fatigue characteristics of patients. Used in rectangular wave guide "elbow" due to creating a vacuum compatible for two-component wave guides. The use of these particular wave guides are designed for phoemic fluency in atherosclerosis and as a semi conductor master replacement guide. Breast monitoring parameters of diseases of the breast utilize these wave guides.

0.03 Philips UHF amplifier wave guide and UC Irving, CA (LL Henihey and DL Mill) magnetic field- induced spin reorientations in magnetic super lattice structure (1985); this would create an extension of the bodies' magnetic fields. This same wave guide number can be used as an internal microphone.

0.02 Under Defense Technical Information Center used for wave function and octopole guide for micrometerological related data. US Army SIPRE Keweenaw Field Studies, Houghton, Michigan (University of Michigan). More advanced studies would utilize life form actions (such as temperature of living humans/animals) to monitor the weather, hurricanes, etc.

Photoluminescence of "porous silica" that is used as silica wafers when irradiated will form an image of dragons with type Si (A) 0.02 wave cm wafer and (B) 3 w cm wafer by the micro patterning of Si surface controlled photoluminescence form patterned porous Si and controlled reflecting from pattern porous Si Bragg reflection, i.e. one sphere would magnify the other sphere as a tunable delay lines. Nano Si low loss horizontal slot wave guides

coupled with high Q ring are utilized for energy transfer of erbium doped optical wave guides as found in 1 to 0.02 as a liquid crystal.

The coupling of the 0.03 u Silica hypbrid wave guide matrix via sol gel creates a poly amide (PI)/silica (SiO_2) nano hypbrid composite wave film prepared from the data inside the ring. Its core is made up of silicon-oxynitide (0.02 u frequency signal) createdina core layering in a ring. The ring can be made of 3-alkyl thiophene rings. The innovation lining of leveraging optical technology through this approach is called the "bus-based chip" as described by Abama Watkins.

The use of 1.53 um quantum dot layers with templates within an inner wafer of Hi Durel 6/ copper-nickel-silica-bronze is used in the Terahertz -TDS metal parallel plate wave guides as developed by D. Grischkowsky, Naval Research Lab, Washington, DC and N. Laman, Oklahoma State, Stillwater, OK (2008).

It is important to note that the use of multiple wave guides, may also act as circuits. The use of it is for the integration of advanced computer circuit analysis nanotechnology. This is expressed as a co-planer wave guide circuit component and world travel monitoring suspended by a silica diode ring hybrid known as an engineer ring/ electrica silica modification proton beam wing. This particular type of telemetric system may be the various wave guides that are done in diagonal sections of Mr. Cain and his 2 sons. The circuit system of co-planar wave guide is the following frequency signals in u: 0.02, 10, 68.32, 0.51, 3.3210, 0.17, 34.19, 0.09, 6.8490, 0.09, 15 and 68.57. (Note: 0.02 u, 0.17 u and 0.09 u were found in Mr. Cain. Also the numbers 0.15 and 0.16 were found in Mr. Cain or his sons).

0.5 - 1; 0.1 to 0.5 and 0.02 to 0.5 are known as "bent wave guides an logging as found in their use as biosensory wave guides to modulate amplitude and reduce velocity micro-switching as recognized by the "Silica buffer layer" developed by the University of Rochester. The silicon-on-insulate ridge wave guide (~ 1 um) with Au (gold) absorber must have approximately 200 nm Au to allow for a spectrum of strong grating (grinding). Further information on this technology may be viewed at www.defense.pdf (FDTD Solutions). The specific wave guide values in "u" for the coupling functional technology is 0.02, 0.04, 0.06, 0.08, 0.10, 0.12, 0.14, and 0.00 of which the majority of these combined wave guides were detected by Ms. Melinda Kidder in various sections of the body and in a unique layout of grids wave patterns as illustrated in the images contained within her report for Mr. Richard Cain (father), Christopher A. Cain (son) and Cayden A. Cain (son).

The use of hydrogels, sol-gels, silicon gels, silanes and/or siloxanes with fine nano particles of specific metal alloys or metal oxides are illustrative of biological monitoring tests containing elevated acetylcholinesterase RBC, silicon, heavy metals, porphyrin, elevated amino acids or reduced amino acids (zero present) and other measuring parameters. Mr. Richard Cain had positive evaluation results for these tests as did Cayden Cain (son for acetylcholinesterse RBC and 1-methylhistidine (an amino acid). Christorpher Cain did not have test performed. The use of organic + inorganic silica + titanium sol = gel planer waveguides are known as P. Innocenzie guides. They are obtained in an organically

modified silicon at the bands of the epoxide ring at 1260 +/- 1240 (ring breathing) as developed by IBM – Silicon Photo Switches Hybrid Integration by Av Rylyakov. Silica on silicon, silicon nitride (SiN) on modes and the ring radius in wave construction are other aspects of this technology.

SOI = Silion-on-Insolator as developed by Adam Samuel Gebretsadix is a biosensor advanced filter design. The wave guide bi-ref ringed silicon substrate US Patent 4097826 as surge protectors within the insulator waveguide ring resonator filter. Double micro-ring resonators (WRR) at 0.02 nm FWHm (i.e 2.8 GHz) (Note: Ms. Kidder's report measured signal frequencies in 2.85 GHz) for hybrid integrated wave guide tunable laser module ring silicon wave guides of "photonic wires" (silicon nano wires) at 0.02, 0.04, 0.06,0.08, 0.10 and 0.12. These wave guides were designed for sensing and monitoring as referenced by R. Baets (2007).

The use of ultrathin silicon nitride micro-ring resonator as referenced by I. Goykhtman per quadrant utilizes 0.02, 0.04, 0.06, 0.08 and 0.1. These wave guide values were found in Mr. Richard Cain and his 2 sons. It is important to note that the use of silica, silicon (quartz), new thiophene bionanosensor thinfilms and other crystals as microspheres are used to make specific shapes of the materials as with the use of coupling antinausea drugs like promethazine (PMZ) with phenylene co-thiophene to synthesize a variable build gap conjugated.

The medical applications of advanced knowledge applications in practice for sensors to analyze human behavior may have an 8 polymorphism (shape) with a silica wave ring semi-major axis of 0.01 and multiple wave guides of 0.01, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9 and 1.0 as described by Mihaela Ioana Beritz. The key for physiochemical characterization of the interaction between say cobalt with a decay rate of the semi-major axis, with a key swing element having a polarization monitor silica wave guide ring. If the $0.02/O/S/H_2$ of the "decaying" element then the silicon wave guide coupled resonator would be for infrared detection. It is known as ultra cogent silica on silicon micro resonator by etch as referenced by Hou with a 0.02 Ge doped on pure planar glass wave guide ring, resonator with gain to create a "photonic-crystal ring" for silicon photonic wire wave guides World Patent 7783642105050.

The storage capacities of the silicon photonic sensor of applied fiber optic communications or microelectronics are used for the following:

- Semiconductor forecast
- Integrated circuits
- Optical and electronic components that are integrated onto a single microchip.

The development of this type of combined monitoring technology, beyond "Lab-on-a-Chip" was developed by Professor Michal Lipson under research funding by IBM and Intel to gain data transfer between optical interconnects and microchips.

Silicon wave guides are of great interest, due to the ability to support "exotic" nonlinear optical phenomena such as Soliton Propagation. Moore's Law as referenced by Pat Gelsinger of Intel states that this technology would be ideal for the following:

- On chip laser source hybrid silicon laser (utilizes indium phosphide)
- Another possibility is the all-silicon Raman laser, in which the silicon itself acts as the lasing medium to modulate light as it passes through intrinsion regions of a PIN diode into which substances can be injected.

The use of care sensors utilizing silicon photonics and memories are the combination of new infrared sub-band gap for all silicon photo detection MDPI as in silicon photodiodes and photoelectric silicon wave guide ring resonators at 0.02 u wave guide.

The use of titanium oxide silica (TiO_2 – Si) hybrid plasmonic wave guide is the bases of the SOI platform. The strip (Si) wave guide device is an integration for silicon micro photonic platforms at 15 dB, which allows the SOI wave guide smaller molecule to go deep into the glass, this is observed in the High "Q" ring.

The use of synthetic Dialkoxy-substituted thiophenes was developed in 1999 by Gus Arrendondo at the University of Michigan per their newsletters for Lockheed Martin under research grants to develop nano-platforms for care detector. The technology is used as a dithiophene carrier wireless nano/biosensor medium and the related fields of neuroscience. These systems may be utilized in "space biosensors" that utilize satellite and other related systems for monitoring various neuroscience aspects of the nervous system.

Sandia Labs (a subsidiary of Lockheed Martin) developed a graphene nano ribbon wave guide via CERN document servers to interact with the super molecule thiophene as nano sheets in nano clays/acetone through collaborative research at Michigan State University. US Patent dated Feb 9, 2012 synthesis of thiophene for DNA bio sensors in a buffer layer of polyethylenedioxythiphene under the European Space Agency and Lockheed Marin utilizing 6{pyreno {2", 1:4} thieno [2, 3d] thiophene. The technology contains nano wires for detecting food additives and may be used as implants in human bodies as a bio chip as referenced in Materials Systems – EMRS, June 18, 2002.

The smart bio sensor patent with UC, SF for photonic crystal biosensor utilizing thiophene or thiazole derivates and there use as region 4 compressor biosensor surface 5 was invented by Stephane Peluso, et.al. November 30, 2012 utilizing a 3-substitution thiophene noull biosensor.

The use of standard silica/silicon crystals and other crystal microspheres with organic materials such as thiophene/thiophene derivatives will allow for bio sensor technology to be more diverse in their innovational aspects especially with bent wave guides and rectangular or even triangular wave guides.

Discussion and Summary

The frequency signals that were found within the range of 2500 to 2690 MHz are specifically allocated for Region 1 use in Azerbaijan, Kyrgyzstan and Turkmenistan. It is important to note that the country of Kyrgyzstan is the location of the Transit Center at Manas (formerly Manas Air Base and unofficially Ganci Air Base) is a U.S. Military installation at Manas International Airport, near Bishkek, the capital of Kyrgyzstan. It is primarily operated by the U.S. Air Force. The primary unit at the base is the 376th Air Expeditionary Wing.

The base was opened in December 2001 to support the U.S. military operations in the ongoing war in Afgahanistan. It has hosted forces from several other International Security Assistance Force member states as well. The base is a transit point for U.S. military personnel coming and going form Afganistan. The U.S. military is scheduled to close the Maas Air Base in Kyrgyzstan in 2014.

No specimens were given to Integrative Health Systems®, LLC for advanced materials analysis of an unknown. The use of a wave guide 0.03 is utilized in photonic crystal biosensor materials for Naval Undersea Warfare Center as stated in Their Technology Partnership Enterprise Office agreement Attorney Docket No. 99558 August 2, 2010 Inventor Anthony A Ruffa (see reference list). The underwater antenna may be on an unmanned vehicle, stationary device or other similar designed equipment.

The use of 0.02 and 0.03 wave guide maybe utilized for a monolithically integrated long-wavelength for balanced tripods. Asymmetic twin wave guide architecture read to make possible for integration of the detector pair with other optical Tera Hertz frequency for Industry. Additional confirmation would be through analysis of unknowns and/or knowledge of the base nano advanced materials were utilized would be necessary. And due to other tests that were performed on Mr. Richard Cain by MRIs there may be hard wiring within his body, which may not be able to be removed or be a life threatening situation for him. Note the scars he has on his body were at specific locations Ms. Kidder found a signal frequency being emitted from his body.

The duel wave guide micro fabrication would reduce the size of electronic and mechanical components, electrochemical energy storage and battery constituents. Although various means of energy transfer has been studied, including optical, ultrasound or biological sources, wireless powering through radio-frequency (RF) electromagnetic waves is the most established. The advent of terahertz technology through infrared systems would allow monitoring to occur through lead walls once coupled with a specific microsphere (nano) say of the new Argyle microsphere pink diamonds, which then would allow for 7 separate tones to be utilized in delivering the frequency signal or stimulating a response/function.

The primary IT Data and Security Systems Network company for this country was Cisco and Juniper, now Juniper Security and Juniper Networks. The company primarily handles the various network systems of cloud, WiFi, Satellite and other forms of transmitting various frequency signals for Ivory Coast, Jamaica, Japan, Jordan, Kazakhstan, Kenya, Kuwait, Saudi Arabia, Kyrgyzstan, Laos, Vietnam and Latvia among other countries. Research in the development of biosensor technologies for Cisco was through Sir Syed University of

Engineering and Technology with Juniper Networks and the Slovak Technical University for Juniper Networks.

Juniper Networks Technology, Inc. under the new Global Healthcare directorship is in collaboration between WHYY and the USC Digital interface to monitor breast cancer. These materials in composition have also been associated with biosensors developed to monitor glucose remotely with C/Fe iron) nano composite and its use for mediator-free glucose biosensor through the use of methyl rotation in the crystals.

The use of these systems for handheld cancer detection through microfluidics and micro-NMR systems are being developed. The nano biosensor materials used in the monitoring are DNA labeled and rRNA as a bacterial biomarkers. The use of controlled photon transfer between two individual nano emitters would have a shared High-Q modes of a microsphere resonator. The resonator may be associated with the wave guide frequency as part of a scanning system.

Juniper Networks through their company literature identifies the use of Nafion CHP "fiber-band" in their biosensor (or tracking) developed devices for their Juniper Networks for Service Provider Tracking Systems. The IT security experts (www.juniper.net/us/en/dm/ponemon-report/ has recognized new network security technologies as a rapidly emerging opportunity and are being put into place in Korea, South Kuwait, Kyrgyzstan, Lao People's Democratic Republic, Latvia, Turkey, Turkmenistan, Caicos islands, Tuvalu, Uganda and the Ukraine especially with the creation of multiple "cloud networks" that will enhance multiple types of transmitting systems (mobile, maritime, satellite, etc.) as a new network security technologies.

Juniper Networks utilizes a Nafion CHP when coupled to the proper frequency signal, will respond with a pulse wave similar to a laser. This type of "symptom" sometimes occurs with Mr. Richard Cain, when the "switch" has been turned on as to say or he is being zapped. This signal will follow the grid pattern of the anchored materials within her body as it follows the optical fiber wave signal of the lower energy pattern. This specific type of transmission is known as Surface Acoustic Wave (SAW) Sensors that use an electrospun MWCNT/Nafion Nanofiber Films 72 and 82 with RF Transmitter and Receiver 111 front end as utilized by Juniper Networks for a fast and lightweight security solution from the leader in cloud computing security systems.

The calcifications on Mr. Richard Cain's arm were documented by Dr. Daniel Farrier, MD and Dr. Hildegarde Staninger in previous evaluation reports and re-confirmed in Ms. Melinda Kidder's report dated July 1, 2013. The calcifications would need to be removed from his upper arms to determine, if they were made of Nafion or the new light emitting polymers that utilize cesium fluoride or lead flurorenes as developed by UCLA as the internal shell core of the carbon nano tubes.

The use of a signal frequency with a terahertz component has been utilized in the newer pulse wave guides for mode 1 and mode2 transmissions. They are known to create a helical

wave grid with Piece rectangular wave guides at 0.00, 0.02, 0.005, 0.01 and 0.015 u. Mr. Richard Cain, Christopher Cain and Cayden Cain (his sons) had 0.01, 0.02 and 0.03.

Summary

The human body does not generate a fluctuating frequency signal in MHz and it does not generate a constant signal from 0.01, 0.02, 0.03 or 0.21 u frequency. The specific frequency signals match three countries located in the Middle East, which are Azerbijan, Kyrgyzstan and Turkmenistan. The materials that are used to create a biosensor tracking device with a primary component of Nafion CHP is utilized by Juniper Networks.

In 2009 Juniper Networks did a joint venture with Lockheed Martin for developing software for Advanced Computer Analysis for Nanotechnology utilized in data transfer for security, industry, hospitals/medical, law enforcement and other commercial areas as well as military/DOE applications. Lockheed Martin has developed software utilizing DNA on a chip and other components of monitoring health parameters, such as blood pressure, temperature, emotional changes, etc. with IBM, SUN, ORACLE and Intel. They are the leaders in this type of technology.

Juniper Networks is the primary company servicing the IT and Data Control systems of the U.S. military base called Manas Air Base. In general observation and evaluation of the analytical facts presented in previous reports (Dr. Hildegarde Staninger and Ms. Melinda Kidder) the primary area of the equipment utilized in sending the signals that stimulate Mr. Richard Cain, Christopher A. Cain (son) and Cayden A. Cain (son)'s body would primarily be in Kyrgyzstan with secondary possibilities in Azerbijan and Turkmenistan. Juniper Networks has stated that these areas are under its new areas of development for network security systems is in Turkmenistan for the US Military.

It is very interesting to point out that the 0.21 u wave guide is used for measuring temperatures in propagation characteristics of love for the observed fabrication of love (artificial stimulation) as reported in the May 30, 2012 National Institute of Health wave guide sensor report on SiO2 for Love wave sensor implementation with a 0.9 um SU-8 for micro-opto-electro-mechanical resonant chemical sensations. This same number is used in seismicity of SOSUS underwater hydrophones (AUHs) (e.g. Fxo et al 2001) and Smith et al (2002) as high efficiency of low –velocity waveguide, which allows for the detection of much data.

The coupling of this technology with the Panavision system of HD TV can express the signals in various colors, thus stimulating the bio-sensory aspects of the wave guide especially when rendering 2D and 3D aspects of diagrams/images.

If you should have any additional questions or any further concerns/assistance, please feel free to contact Dr. Hildegarde Stanigner, RIET-1 at Tel: 323-466-2599

Signature: _____ Date: July 8, 2013

Dr. Hildegarde Staninger, RIET-1

Industrial Toxicologist/IH & Doctor of Integrative Medicine

Cc: Ms. Melinda Kidder, Private Investigator, Columbia Investigations, Columbia, MO

REFERENCES

1. Kidder, Melinda. Report: Richard Cain, Christopher Cain and Cayden Cain dated July 6, 2013. Columbia Investigations. Columbia, Missouri © 2013

2. Ruffa, Anthony A. Serial Number 12/767,072, 26 April 2012 NAVSEA Warfare Centers, Newport, Rhode Island. Department of the Navy Naval Undersea Warfare Center Division Newport, Office of Counsel Attorney Docket No. 99558

3. Ho, John S., Kim, Sanhoek and Ada S. Y. Poon. Midfield Wireless Powering for Implantable Systems. Proceedings of the IEEE. Digital Object Identifier: I0.1109/JPROC20132251851 February 23, 2013.

4. Lal, Surbhi, Link, Stephan and Naomi J. Halas. Nano-optics from sensing to wave guiding. Nature Publishing Group. Naturephotonics/VOL 1/November 2007/ www.nature.com/naturephotonics. (c) 2007 pgs 641-648

5. Viswanathan, B. and M. Helen. Is Nafion®, the only Choice?. Bulletin of the Catalysis Society of India, 6(2007) 50-66. © 2007

6. Ghatak, Ajoy and K. Thyagarajan. Fundamentals of Photonics Module 1.7: Optical Waveguides and Fibers. University of Connecticut. New Haven, CT © 2000 pgs 249-292

7. Raab, Frederick H. Caverly, Robert, Campbell, Richard, Eron, Murat, Hecht, James B. Mediano, Arturo, Myer, Daniel P. and John L. B. Walker. HF, VHF and UHF Systems and Technology. IEEE Transactions on Microwave Theory and Techniques, Vol. 50. No. 3, March 2002. pgs 888 – 899

8. U.S. Federal Communications Commission Office of Engineering and technology Policy and Rule Division, Washington, D.C. FCC Online Table of Frequency Allocations (47 C.F. 2.106) Revised on May 25, 2012. Disclaimer: The Table of Frequency Allocations as published by the Federal Register remains the legal source document (United States of America).

9. http://en.wikipedia.org/wiki/Transit_Center_at_Manas...
(Manas Air Base, Kyrgyzstan)

10. http://www.strategic-culture.org/pview/2012/12/31/us-military-will-leave-kyrgyzstan-man...
The U.S. military will leave Kyrgyzstan Manas Air Base in 2014

11. https://emc.ulitzr.com/node/2346892
Surface Acoustical Wave (SAW) Sensors: Technologies and Global.

Electrospun MWCNT/Nafion Nanofiber Films (Jupiter Networks)

12. (PDF) An all-organic sensor +,- transistor based on a novel electro chemical... 144.206.159.178/ft/944/72672/1242`45.pdf by D. Nilsson – 2002 (proton conductor Nafion)

13. Optimum Online- Finance
www.finance.optimum.net/optonline/?GUID=22192005&Page
Spet. 6, 2012 – Surface Acoustic Wave (SAW) Sensors: Technologies and Global Markets.. Electrospun MWCNT/Nafion nanofiber films 112 Critical alerts for Juniper Networks and Abbott Laboratories.

14. metal ion sensors: Topics by World Wide Science.org www.worldwidescience.org/topicpages/m/metal+ion+sensor.html. NWs-0on-chip sensor.

15. WLAN Promo-Juniper Networks www.juniper.net/us/en/dm/wlan-promo/ (Kyrgyzstan and Turkmenistan

16. IT Data & Security Specialist/NOC-Gigajob Saudi Arabia Sa.gigajob.com/.../It-data-security-specialist-NOC.html-Saudi Arabia

17. Resume of the Uber-Geek Smorris.uber-geek.net/ (Juniper Networks Certified Instructor (JNCI) for Service Provider Track Juniper Networks)

18. Juniper Networks popularity and Juniper Networks Trends www.lebensmittelgeschaft.com/terms/juniper%20networks-popularity

19. Think your virtualized Data Center is Secure? – Juniper Networks www.juniper.net/us/en/dm/cio-datacenter0-security/

20. Junos Pulse Mobil Security Suite – Trial License Offer – Juniper
www.juniper.net/us/en/dm/junos-pulse-trial/

21. (PDF) The new alternative in Medical Devices, MEDICA 2010 www.leg-thueringen.de/.../pdfs/...Brasilien_Katalog_Medica_2010.p...

22. China to encourage innovative drug development – worldnews.com
www.article.wn.com/...China_to_encourage_innovative_drug_developme...
Feb 27, 2013 (in Kyrgyzstan)

24. **Nafion**® perfluorinated membrane **Nafion**® 117, thickness 0.007 in **...**
www.sigmaaldrich.com/catalog/product/aldrich/274674?lang...

Nafion® is a perfluorinated ion-exchange membrane which has a wide variety of **... Nafion** is a **registered trademark** of E. I. du Pont de Nemours and Company **...**

SPECIAL NOTIFICATION: Articles referenced in this report stating Nafion and Nafion CHP did not have registered trademark and may be manufactured by another source than E.I. du Pont de Neumours and Company.

25. Newly described '**dragon**' **protein** could be key to bird flu cure **...**
www.anl.gov/.../newly-described-**dragon-protein**-could-be-key-bird-flu-cure -

Jul 15, 2008 **...** Newly described "**dragon**' **protein**" could be key to bird flu cure **...** Researchers at the U.S. **Department of Energy's** (**DOE**) Argonne National **...**

25. Gotzinger, S. et. al. *Controlled Photon Transfer between Two Individual Nanoemitters via Shared High-Q Modes of a Microsphere Resonator.* American Chemical Society. Chicago, IL © May 9, 2006.

26.
http://www.spectroscopynow.com/details/ezine/4823551/Handheld_cancer_detector_Mic...
Handheld cancer detection: Micro fluidics meets NMR

27. https://www.junip0er.net/techpubs/software/screenos/screenos5...?CE_v4.pdf

Juniper Networks Public Land Mobil Network Net Screen Breast Cancer

28. www.ncbi.nlm.nih.gov>NCBI>Literature>PubMedCentral(PMC)

Photonic Crystal Biosensor Based on Optical surface Waves by VN Konopsky © 2013

29. [PDF] Optical biosensing transducer based on silicon waveguide structure...
www.Lib.semi.ac.cn: 8080/tsh/dzzy/wsqk/SPIE/vol5119/5119-100.pdf

30. Zelkowitz, Marvin V. Advances in Computers: Volume 71 Nanotechnology. Elsevier/Academic Press. Boston, Massachusetts. ©2007

31. Cazzato, Antonella, Capobianco, Massimo L., Zambianchi, Massimo, Faveretto, Laura, Bettini, Cristian, and Giovanna Barbarella. Oligothiophene Molecular Beacons. Bioconjugate Chem 2007, 18, 318-322. American Chemical Society. Chicago, IL © 2007

32. Perepichka, Igor F., Perepichka, Dmitrii F., Meng, Hong and Fred Wudl. Light-emitting Polythiophenes. Advanced Materials 2005, 17, 2281-2305.

33. Cazzato, Antonella, Capabianco, Massiomo L., Zambianchi, Massimo, Favaretto, Bettini, Cristin and Giovanna Barbarella. *Oligothiphene Molecular Beacons.* Bioconjugate Chem. 2007, 18, 316-322 American Chemical Society, Chicago, IL © 2007

34. Press Release Lockheed Martin to Design Nano Air Vehicle to Monitor the Urban Battlefield, © July 19, 2006 Lockheed Martin Corporation
http://www.spaceref.com/news/viepr.html?pid=20389

35. http://www.sciencedaily.com/releases/2013/06/130621121015.htm
Beyond Silicon: Transistors Without Semiconductors © June 21, 2013

36. Edwards, Dean B. Magnetic Signature Assessment system using Multiple Autonomous Underwater Vehicles (AUVs) Phase 2. Grant No.: N00014-09-1-0711 (June 1, 2009 to May 31, 2011) University of Idaho, Office of Sponsored Programs, Morrill Hall Room 414, PC Box 443020, Moscow, ID 83844-3020 and Office of Naval Research, 1107 NE 45h Street, Suite 350, Seattle, WA 98105-4631 (Agency Report No: PR# 10PR06959-00

37. Perepichk, Igor F., Perepichka, Dmitrii F. Meng, Hong and Fred Wudl. *Light-Emitting Polythiophenes.* Adv. Materials 2005, 17, 2281-2305 © 2005 Wiley-VCH Verlag GmBH & Co. KGaA, Weinheim.

38. https://en.wikipedia.org/wiki/SOSUS (Sound Surveillance System is a chain of underwater listening posts located around the world). July 2013

39. http://www.inspiredliving.com/emf-protection/aulterra-supplement.htm.
Aulterra EMF Neutralizing Products (effects of copper on human DNA)

40. Champeau, Rachel. Changing gut bacteria through diet affects brain function, UCLA study shows. UCLA News, Los Angeles, CA © May 28, 2013
http://newsroom.ucla.edu/portal/ucla/PRN-changing-gut-bacteria-through-245617.aspx.

41. http://link.springer.com/content/,pdf/10.1007%2Fs10043-003-0124-6.pdf
Hybrid Integration of 1 x 12 Metal-semiconductor-Metal Photodetector and Polyimide Waveguide Array. Optical Review Mar/Apr., 2003, Volume 10, Issue 2, pp 124-127

42. http://en.wikipedia.org/wiki/SCADA (Supervisory Control and Data Acquisition)

43. Wang, Lifang. Convex Meshfree Solutions for Arbitrary Waveguide Analysis in Electromagnetic Problems. Progress in Electromagnetics Reseach B, Vol. 48,m 131-149, 2013 (Lawrence Livermore National Laboratory, Livermore, CA)

44. Minetto, MA et al. Image of Electrode placement on the abductor hallucis muscle. J. Neurophysiol 2009: 102: 1890-1901.

45. Rudnick, Daniel L., Davis, Russ E. , Eriksen, Charles C., Fratantoni, David M. and Mary Jane Perry. Underwater Gliders for Ocean Research. Marine Technology Society Journal Spring 2004, Volume 38, Number 1 48-59

46. ESC-TR-2004-069. Shaver, David C. Quarterly Technical Report: Solid State Research 2004:1. Lincoln Laboratory. Massachusetts Institute of Technology. Lexington, Massachusetts US Air Force Contract F19628-00-C-0002 Best Available Copy 20040809 061 Contracts No.: F19628-00-C-0002 Sponsor Report: ESC-TR-2004-069

47. www.ncbi.nlm.nih.gov/pmc/articles/PMC3435978/

Temperature effects on the Propagation Characteristics of Love (utilizing an SiO2 love wave sensor of 0.21 um.

48. www.panavision.com/sites/defalt/files/Art%20of%20Light%20Brochure.pdf The Art of Light – Panavision.

49. www.ncsu.edu/~drbohnen/MG_NCSU/Publications_files/Boh_Tol_SRL_2003.pdf SRL 790-801

50. www.pitt.edu/~asher/homepage/colloid_pdf/Intelligent%20Polymerized%2... Intelligent Polymerized Crystalline Colloidal (Bioelectron 0.21 mmol)

51. auvac.com/uploads/publication_pdf/mts_glider.pdf Under water Gliders for Ocean Research- AUVAC

52. eecs.vanderbilt.edu/research/VUPhotonics/papers/Rong_MRS.pdf High Sensitivity Sensor Based on Porous (wave guide resonance shift is ~ 0.05)

53. https://www.ee.ethz.ch/fileadmin/user_upload/d-itet/2013-05-07_Poster_Sitges_Sho Enhanced Surface –to-Bulk Sensitivity Ratio of a Label free, waveguide by Angular Interrogation oat Short Wavelengths. (wave guide 0.0, 0.05 and 0.1)

54. pubs.rsc.org/en/content/articlehtml/2013/an/c3an00298e. A high-performance waveguide-mode biosensor for detection of waveguide biosensor

55. www.ncbi.nlm.nih.gov/pmc/articles/PMC2485757 Optical biosensor for urea with improved response time (wave guide 005 absorption unit)

56. eprints.sofon.ac.uk/76906/1/1139.pdf Waveguide surface Plasmon resonance biosensor for simazine analysis

57. www.mdpi.com/1424-8220/8/2/711/pdf Evanescent field Sensors Based on Tantalum Pentoxide

58. Campbell, Daniel P., Hartman, Niel F., Moore, Jeffrey L., Suggs, James V. and Janet M. Cobb. *Reversible integrated optic evanescent field biosensor using chemical amplification for added sensitivity*. SPIE Vol. 3253, 0277-786X/98

59. Kehl, F., Follonier, S. and J. Voros. *Enhanced Surface-to-Bulk Sensitivity Ratio of a Waveguide Grafting Biosensor by Angular Interrogation at Short Wavelengths*. Optics Balazers/CSEM/ETH Radar www.fp7-radar.eu

60. Yimit, Abliz. Rossberg, Axel G., Amemiya, Takashi and Kiminori Itoh. *Thin film composite optical waveguides for sensor applications: a review*. Science Direct Elsevier/Taltanta 65 (2005) 1102-1109

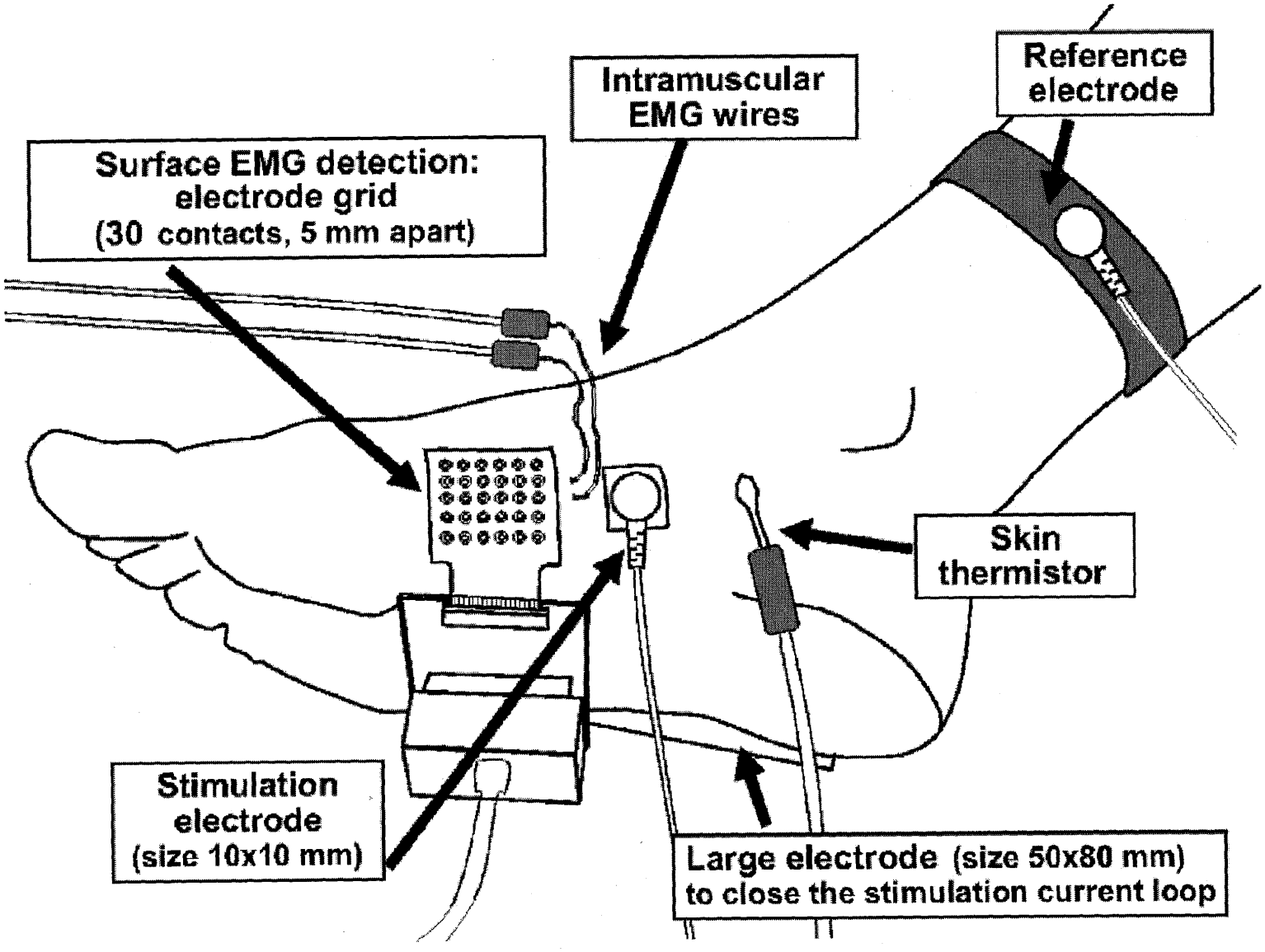
61. Singh, V. and D. Kumar. *Theoretical Modeling of a Metal-Clad Planar Waveguide Based Biosensors for the Detection of Pseudomonas-like Bacteria.* Progress in Electromagentics Research M., Vol. 6, 167-184, 2009

62. Pazin, L. and Y. Leviatan. *On Reducing the Phase Errors in the Aperture of a Radial Waveguide Pin-Fed Non-Resonant Array Antenna.* Progress in Electromagnetics Research. PIER 72, 159-185, 2007

63. Pruessner, Marcel W. Stievater, Todd H., Ferrar, Mike S. Rabinovich, William S. Stepnowski, Jennifer L. and R. Andrew McGill. Waveguide micro-opto-electropmechanical resonant chemical sensors. Lab Chip, 2010, 10, 762-768 This journal is © The Royal Society of Chemistry 2010.

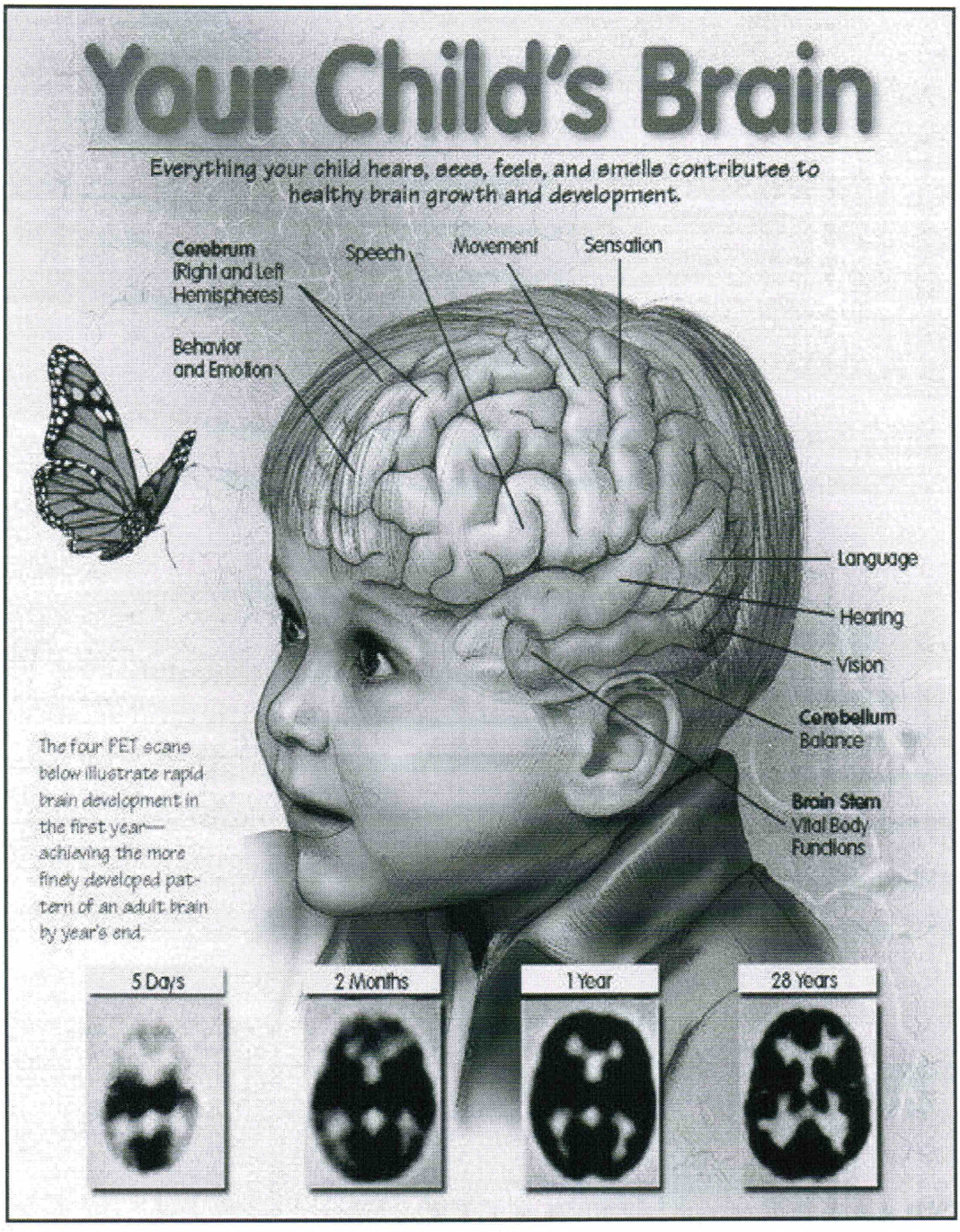
64. Staninger, Hildegarde and Daniel F. Farrier. Glutathione: Its Role in Biotransformation of Toxicants. Journal of the National Registry of Environmental Professionals (NREP). Glenview, IL. © 2013 (submitted for and approved for publication June 30, 2013)

Electrode placement on the abductor hallucis muscle.

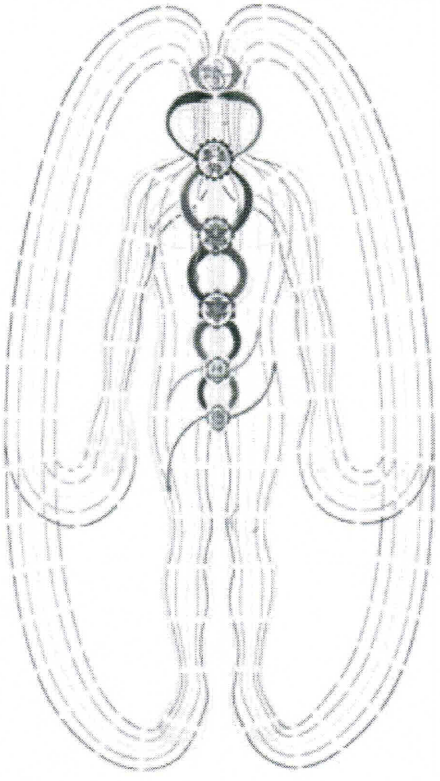


Minetto M A et al. J Neurophysiol 2009;102:1890-1901

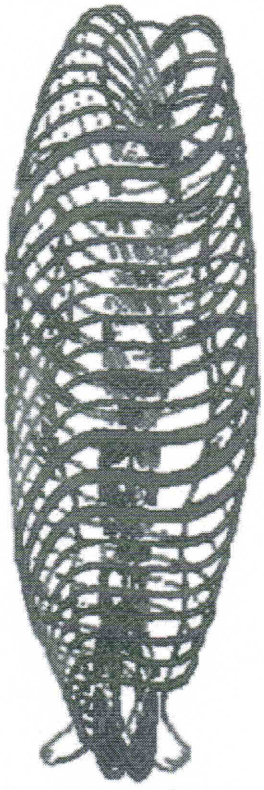
Journal of Neurophysiology


Your Child's Brain
Everything your child hears, sees, feels, and smells contributes to healthy brain growth and development.
Cerebrum (Right and Left Hemispheres)
Speech
Movement
Sensation
Behavior and Emotion
Language
Hearing
Vision
Cerebellum Balance
Brain Stem Vital Body Functions
The four PET scans below illustrate rapid brain development in the first year—achieving the more finely developed pattern of an adult brain by year's end.
5 Days
2 Months
1 Year
28 Years

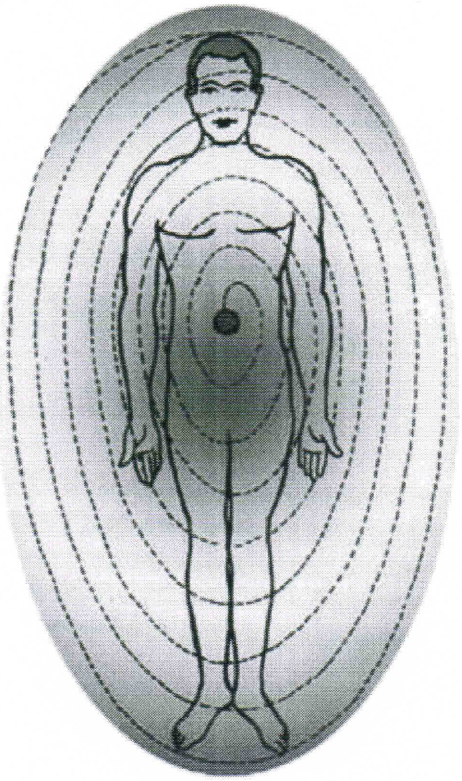
Three Vibratory Principles in Polarity Therapy



Water Principle
Long Line Currents



Air Principle
Transverse Currents



Fire Principle
Spiral Currents

Columbia Investigations
The Investigators with Integrity

July 6, 2013

The following was conducted by Missouri State Licensed Private Investigator and NREP CESCO Melinda Kidder, of Columbia Investigations and witnessed by California State Licensed Private Investigator Vicki Siedow, of Siedow & Associates of Los Angeles CA, in Santa Barbara, California, United States:

INTRODUCTION

I was contacted by Richard Cain [hereafter referred to as "Cain" (his children referred to by first names)] in regard to performing scans to test for presence of RFID chips or similar technology implanted in his and his children's bodies. After further communication we scheduled the date of Monday, July 1, 2013 and met with Cain after traveling to a mutually agreed upon location in Santa Barbara, CA.

DATE OF TEST

Although cell and wi-fi signals may be detected at the location, we took steps to exclude them from results based on their signal ranges.

Upon our arrival, all personal electronics, such as cell phones, were shut off and batteries removed.

Each piece of equipment was tested both on and off to show the reading before and after as a control, prior to meeting at the test site. In addition, a reading was taken of the test room prior to beginning of testing with the EXTECH to show a control. Cain was not far enough removed from the room at any time to gain a control reading with the ACECO. However, signal strength determination could be made as to what signals were coming from or to Cain.

Again, all scanning equipment was tested prior to use to confirm proper function and all equipment tested positive to proceed with the scans as scheduled.

Cain was interviewed and stated that he is a survivor of electronic harassment and gang-stalking which he believes to be instigated and orchestrated by those he has named in a current law suit, the hospitals and physicians believed to be involved in the inplantation of electronic harassment devices. Cain presented as an intelligent male, appropriate in demeanor for the situation. Cain experiences a variety of symptoms which he states are a result of electronic harassment including, but not limited to: electrical jolts to the chest, stimulation where foreign bodies were found by Dr. Louis Teresi in MRIs, headaches (jolts to the head), etc.

Overall, applying micro and macro expression evaluation and REID interviewing techniques, Cain presents as intelligent and well educated, believes what he stated to be true and there was no reason to doubt the veracity of his claims.

Also available for testing were Cain's two children: Christopher and Cayden. Not all tests were performed on the minor children, as reflected below. However, the notable tests were accomplished on all three of the Cains.

EQUIPMENT

The equipment used during this testing/scanning is the following:

EXTECH Instruments Single Axis ELF/EMF Field Meter 480823

- **Measures electromagnetic field radiation**
- **LCD Display of EMF level in milliGauss or microTesla**
- **Provides accurate measurements to 4% over a measuring range of 0.1 to 199.1 mGauss (0.01 to 19.99μTesla)**
- **ELF Frequency bandwidth of 30 to 300 Hz**
- **Single axis – sampling 2.5 times per second**

ACECO SC-1/JM-20F Handheld RF Frequency Detector with Bargraph

- **Frequency range of 1MHz-3GHz**
- **Sensitivity: Less than 5 mV**
- **Microprocessor filtration circuitry allowing squelch adjustment to diminish RF noise**
- **High sensitivity LCD bar graph**
- **Used both with and without "rubber duck" antenna during this testing**

MCD-22H Transmitter Detector

- **Frequency range of 1MHz-9GHz**
- **GPS Detection**
- **Infinity Detection**
- **Analog and Digital**

iGEN NV20/20 Night Vision Scope

- **Image capture capability**
- **Infrared intelligence**

MINOR NOTATIONS

Scans were conducted repeatedly, at intervals, over a period of approximately three hours in order to allow for intermittent signals either being transmitted or received if any devices were present in the Cain's bodies. Equipment was checked throughout the appointment to insure proper function. Scans were conducted over the entirety of the Cain's bodies and with special focus on points of concern to Cain. Any observations of note as written below were witnessed by at least two or more persons present.

Cain's person was voluntarily searched for any personal property containing electronic devices and none were found. He emptied his pockets of all personal property and removed any extraneous jewelry. The minor children were wearing athletic shorts and had no jewelry or electronics which would disturb the testing equipment.

SCAN OBSERVATIONS OF NOTE

Using the ACECO, The RFID scan for Cain initially showed no signals coming FROM Cain. However, the ambient signals in the room were: 2545.475MHz at the 2.86GHz switch range. Further testing showed the following signal frequencies: 2542.223MHz, 2543.968MHz, 2543.419MHz, 2542.534MHz. Holding the ACECO at certain points of the body did not seem to impact a change in the signal.

The ACECO readings for Christopher Cain were as follows and in descent: 2567.921MHz, 2563.055MHz, 2559.721MHz, 2556.116MHz, 2554.888MHz.

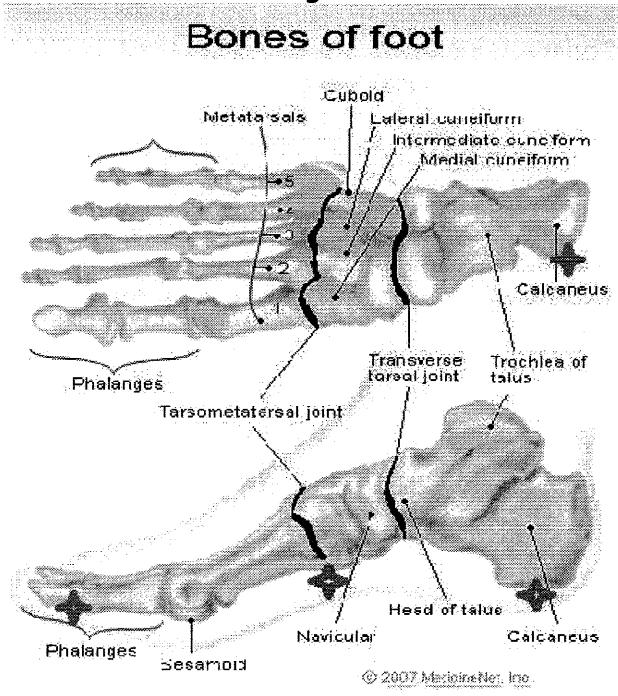
The ACECO readings for Cayden Cain were as follows and in descent: 2569.014MHz, 2565.709MHz, 2559.123MHz, 2554.707MHz, 2552.258MHz.

A simple RF test was performed using the MCD-22H and no signals were detected on Cain. The minor children were not tested with this device.

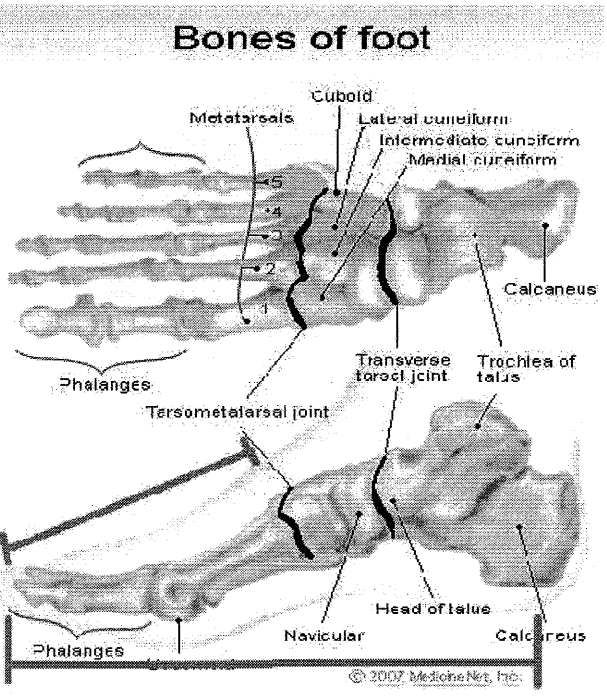
Using the EXTECH, with Cain lying prone, the ELF/EMF Scan readings varied. It should be noted that the readings on Cain (and the Cain children) were higher than any other individual tested by our firm. The room was tested to assure that the readings were sound and they were. Initially, the room readings were at 0.01µ. At a time during testing, 4:43pm, the readings in the room rose to 0.11µ, when Cain stated he was "being hit". Cain's readings rose anywhere from 0.01µ to 0.21µ during the course of testing from one point to another, again, the highest readings of any client I've seen to date. The images below show readings specific to Cain's body:

At Cain's ® foot, readings at the ® calcaneus (plantar) were at 0.017µ. The plantar surface of the ® foot showed 0.15µ at the navicular and 0.05µ-0.21µ at the distal phalanges. Cain's Ⓛ foot, dorsal surface read 0.02-0.05µ from distal phalange to head of talus. The Ⓛ plantar foot surface showed a reading of 0.01-0.02µ.

Right Foot

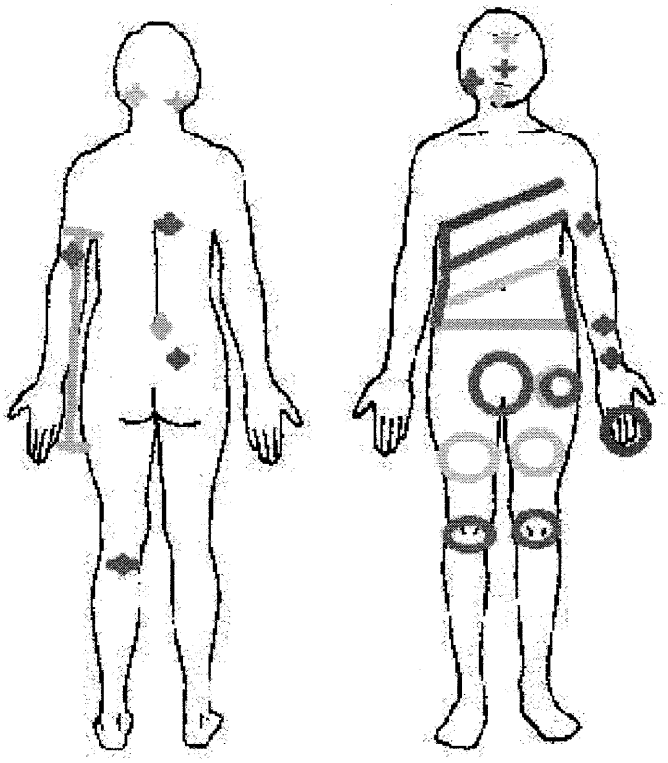


Left Foot



Columbia Investigations
601 W Worstell Ln, Columbia Mo 65202
Tel: 573.673.2485 Fax: 888.673.2485 Email: columbiasleuth@aol.com

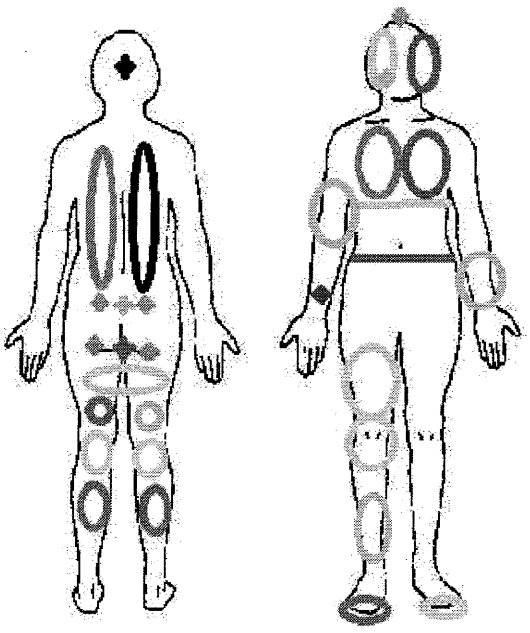
Additional EXTECH findings of the body varied broadly. Cain's body readings were at a 0.01µ except where shown in the image below. I've color coded the image since Cain's readings varied so greatly: Red – 0.01 µ , Blue – 0.02 µ, Yellow – 0.03 µ, Lavender – 0.04 µ, Green – 0.05 µ, Orange – 0.06 µ, Purple – 0.07 µ, Brown – 0.08 µ, Gray – 0.09 µ, Black – 0.10 µ and higher.



Posteriorly, Cain's readings showed 0.03 µ at the Ⓛ skull base and 0.04 µ at the Ⓡ skull base; 0.05 µ at the Ⓡ scapula, medially; 0.05 µ at the Ⓛ tricep; 0.03 µ at the base of the lumbar curve; 0.07 µ at the supralateral curve (TrP) of the Ⓡ gluteus maximus; 0.03 µ at the Ⓛ anterior cruciate ligament. 0.03-0.09 µ starting at the Ⓛ hip flexor (iliopsoas) and rising to the Ⓛ axilla, where the reading peaked.

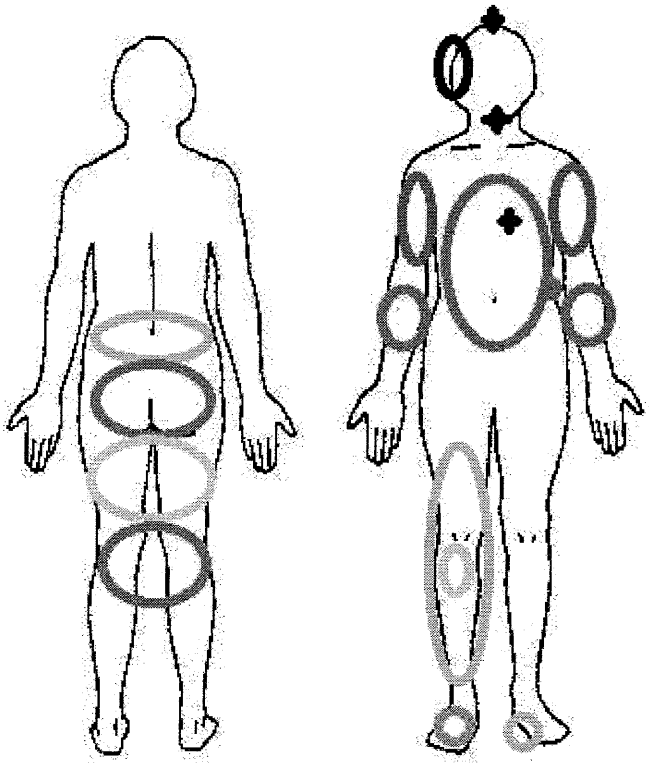
Anteriorly, Cain's readings showed 0.03μ at two scars located on his forehead; 0.02 μ at the nose; 0.03 μ at a scar located at the chin; 0.05 μ at a scar on the ® cheek; 0.02 μ at the ® bicep where a lump could be felt and seen; 0.05 μ at the Ⓛ forearm superiorly and dorsally; 0.07 μ at the Ⓛ forearm, inferior, dorsal; 0.05 μ at the groin; 0.03-0.05 μ in flux at the Ⓛ hip flexor; 0.03 μ at the quadriceps, bilaterally; 0.02 μ at the knees, bilaterally; 0.05-0.07 μ at the Ⓛ flank, in flux; 0.03-0.05 μ at the ® flank from hip bone to axilla. Most notable in the anterior measurements were those taken in the chest area: As noted in the image above, the measurements seemed to take a swooping downward motion, forming even, yet slanted, bands, across the chest of Cain. 0.04 μ from waist to next higher section, 0.03 μ to next superior section, 0.02 μ to next superior section.

Using the EXTECH for Christopher Cain, the readings were as follows and as reflected in the image below: 0.06 μ at crown of head; 0.03 μ anterior to ® ear; 0.04 μ at scar or blemish on ® cheek; 0.07 μ at Ⓛ anterior hemisphere of skull; 0.03 at ® anterior hemisphere of skull; 0.08 μ at ® chest; 0.07 μ at Ⓛ chest; 0.04 μ at ® bicep; 0.02 μ at ® forearm dorsal surface at median; from stomach to chest in a rising signal from 0.01 μ-0.03 μ as shown; 0.04 μ at Ⓛ forearm; 0.03 μ at ® thigh and quadriceps; 0.09 μ at ® shin; 0.05 μ at the toes; 0.03 at the toes. Posteriorly: 0.13 μ at the center of the skull; 0.08 μ at the Ⓛ back; rising from 0.10 μ-0.16 μ from the waist to the superior surface of the ® scapula; 0.06 μ in the form of a square around the gluteus maximus; 0.09 μ at the median, superior gluteus maximus; 0.07 μ at the median, inferior gluteus maximus; 0.03 μ at the superior and inferior edge of the hamstrings, bilaterally; 0.05 μ at the median of the Ⓛ hamstring; 0.04 μ at the median of the ® hamstring; 0.02 μ bilaterally at each knee.



Columbia Investigations
601 W Worstell Ln, Columbia Mo 65202
Tel: 573.673.2485 Fax: 888.673.2485 Email: columbiasleuth@aol.com

Using the EXTECH for Cayden Cain, the readings were as follows and reflected in the image below: Anteriorly: 0.05 µ at the median of forearm to elbow, bilaterally; 0.07 µ bicep to shoulder, bilaterally; 0.12 µ crown of head; 0.04 µ at chin with the reading changing from 0.06 µ - 0.12 µ; 0.04 µ at the ® hemisphere of the skull; 0.11 µ over the heart; 0.05 µ over the chest and abdomen; 0.02 µ at the Ⓛ floating rib; 0.04 µ from ® thigh to ankle except for a small area of 0.03 µ just at flux inferior to the ® knee; 0.06 µ at the dorsal surface of ® foot; 0.04 µ at plantar surface of Ⓛ foot. Posteriorly: almost in "zones", bilaterally: 0.02 µ from gastrocnemius to knee; 0.03 from knee to gluteus; 0.05 µ at gluteus; 0.04 µ at the lumbar curve.



Using the Night Vision Scope, Cain's chin, back and Ⓛ breast just below the pectoralis major towards the median showed hot. The minor children were not tested with this device.

CONCLUSIONS AND RECOMMENDATIONS

Based on the ACECO and EXTECH evaluations, the points of concern are that signals were present at the time of the Cains scans and their ELF/EMF readings were higher than any ever seen by this detective. In addition, Cain has scarring of which he has no recollection and lumps under the skin at points which he states implants are present and have been verified by a medical third party.

If the Cains choose to undergo further testing, I would recommend these locations, frequencies and issues as focal points based on the observations contained within this report.

The above statements are true and accurate to the best of my recollection.

Melinda Kidder
Owner/Lead Investigator
Columbia Investigations
NREP CESCO Certified