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Previous issues of our newsletter can be found here:

https://www.psychotronics.org/archives/

Section I - What's Happening SOON:



December 10, 2022, 1:00 pm CT USPA Masterclass #36- Dan Mangum presents "The Human Aspect Of Radionics."

Click Here For Link -to attend this Zoom Masterclass. After registering; you will receive a confirmation email with a link to join the Zoom meeting.

About this Masterclass: "When people think of radionics they think of the instrument. But what about the human operator? This presentation will discuss the different ways that our thoughts, words, and actions affect the radionic process and can be used consciously to achieve results".

- Thoughts of the radionic practitioner
- Words used during a radionic session.
- Actions how precise must they be?
- How do these all tie together to make radionics more effective?

Dan Mangum is a radionic researcher who uses radionics to maintain a garden, greenhouse, fruit and nut trees, honeybees, a handful of horses and Shetland sheep, and his dogs. He also makes and sells radionic reagents and programs as well as an external antenna/rub plate of his own design and has authored 2 books on radionics.

More about this Masterclass in Section III

Section II - Sponsors' Spot

We've gone from famine to Feast! A USPA member who has chosen to remain Anonymous will be a sponsor for **THREE Masterclasses at** the "9-49 Vitalizer" Patron Level 9-49 is the Radionic rate for general vitality and with this kind of sponsorship. **USPA** will certainly maintain its vitality!

THANK YOU Anonymous
Member!!!

Please consider being a USPA Masterclass sponsor. Click Here for prices and perks.

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USPA is a 501(c) (3), non-prof organization, founded in 1975 as US Radionics Congress.

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AL'S ALTERNATIVE ENERGY READING CORNER. FROM BEVERLY RUBIK: PASSING OF DR. EFFIE CHOW. NICK FRANKS- ONE OF THE USPA MASTERCLASS PRESENTERS –INTRODUCES HIS LATEST BOOK. DAN TAYLOR SHARES THE RESEARCH ARTICLE: EXPLORING THE EFFECTS OF POTENTIZATION BY ELECTRON MICROSCOPY, RAMAN SPECTROSCOPY AND AI ALGORITHMS. AGRIVOLTAICS PAIRS SOLAR PANELS WITH FARMING, SOLVING MULTIPLE CLIMATE-CAUSED PROBLEMS 2. SEEKING MILLIONAIRE SPONSOR. MASTERCLASS SPONSOR DRIVE. 10-15-2022 USPA MASTERCLASS # 34 DAVID OATES PRESENTING "REVERSE SPEECH" CHAT: 11-12-2022 USPA MASTERCLASS #35 DENNIS STILLINGS PRESENTING "THE ARCHAEUS PROJECT" CHAT. Section VII – Come to the Website – Visit the Ever-changing USPA Library. THE LIBRARY LION: JOHN REED. Section VIII - USPA Publications: Proceedings and Journals are Digitized and in USPA SP	571819192021
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Section III - USPA Free Masterclass #36

12-10-2022 at 1:00 pm CT USPA Masterclass #36- Dan Mangum presents "The Human Aspect Of Radionics."

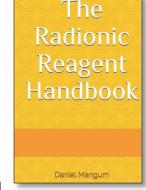
<u>Click Here For Link</u> -to attend this Zoom Masterclass. After registering; you will receive a confirmation email with a link to join the Zoom meeting.

If you might be interested in sponsoring this masterclass, please click here or contact Scott at uspsychotronics@yahoo.com

"The Human Aspect Of Radionics- Thoughts, Words, And Actions"

Dan says, "When people think of radionics they think of the instrument. But what about the human operator? This presentation will discuss the different ways that our thoughts, words, and actions affect the radionic process and can be used consciously to achieve results."

- Thoughts of the radionic practitioner
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Dan Mangum is a radionic researcher who uses radionics to maintain a garden, greenhouse, fruit and nut trees, honeybees, a handful of horses and Shetland sheep, and his dogs.

He also makes and sells radionic reagents and programs as well as an external antenna/rub plate of his own design and has authored 2 books on radionics. His latest is *The Radionic Reagent Handbook*

His background includes studying mysticism, magic and world religions for 30 years. He utilizes rife machines, orgone accumulators, homeopathy,

and biodynamics. Dan is a licensed electrician who occasionally installs off grid solar power and lives off grid himself.

Section IV - In Case You missed these:

10-15-2022 USPA Masterclass # 34 was David Oates Presenting "Reverse Speech"

Reverse Speech

David Oates discovered the phenomenon of reverse speech (RS). This is the theory that regular speech contains hidden messages that can only be heard when it is played backwards. It is believed that unconscious thoughts, memories, and experiences are embedded in our spoken language, and we can reveal these by recording speech and playing it in reverse (Oates, 1991).

David John Oates

David John Oats was born in rural Australia on October 30th 1955, the first son of a young Methodist minister. It was while running a halfway house for street kids in 1984 that he first heard about backward messages in rock and roll, and a new hobby was born – playing tapes backwards. He rapidly became obsessed with this new hobby and by 1987, he had developed his theory of Reverse Speech.

Since that time, David has had an active career now spanning 40 years, furthering the field of Reverse Speech as his full time occupation. He has developed new theories, and designed therapeutic and training techniques. He has published several books on Reverse Speech and has lectured around the world to crowds of thousands, and trained hundreds of students.

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Non-Members: Buy the video in our <u>Shop</u>
(Better Yet – see them all and <u>Become a member!</u>)

11-12-2022 USPA Masterclass #35 was Dennis Stillings Presenting "The Archaeus Project"

*Dennis was a USPA Conference Presenter Eight Times! From Dennis Stillings:

From an early age I was motivated by dreams and experiences to investigate the existence of phenomena outside of the accepted paradigm. This journey began with experiments in magick, hypnosis, ESP, Tantric yoga, Tarot, and psychedelics. I also immersed myself in Jungian psychology. This was in my college days.

Soon after graduation, I became a family man, a man with a wife and children and a job as a research librarian at Medtronic, Inc. Here I began the development of The Bakken, A Library and Museum of Electricity in Life. And not only electricity (and magnetism) in life, but any sort of subtle energy as well.

I left behind the Museum, and went on to create Archaeus Project, the primary Mission of which was to investigate alternative methods of healing in the broadest sense, with an emphasis on the uses of electricity and magnetism.

I joined several relevant organizations: the USPA, the Parapsychological Association, the Society forScientific Exploration, the Bioelectromagnetics Association, and a number of organizations dedicated to issues involving mind-body approaches to healing. I also did investigations of psychic metal-bending, séance groups and homeopathy.

In each of the above endeavors, I observed unusual events. I certainly do not have any good explanations of them, but I have some ideas about them that may be useful to others.

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Section V - Great Lectures Scheduled in our Continuing Master class Series:

- 1-17-2023 USPA Membership Meeting Tuesday 7PM CST More on this in Section X
- 1-21-2023: Glen Rein and Analiese Reid "DNA Reprogramming"
- 2-18-2023 John Allocca "Sacred Geometry"
- 3-18-2023 Marc Seifer "Tesla"
- April (TBA) Nick Franks "Interview on Radionics"
- 5-7-2023 (Sunday <u>not Saturday)</u> Michael Andron "Stories of Puharich and Woodrew"

Section VI - Articles of Interest

Al's Alternative Energy Reading Corner



Al's Alternative Energy Reading Corner



Hi Readers,

I think you will enjoy this presentation:

Sarah Westall interviews Philipp Samor von Holtzendorff-Fehling (L) and Ian Mitchell®. Phillip is a coach, entrepreneur, energy health, and CEO of Leela Quantum Tech.

Ian has developed novel therapeutics using lipofullerene conjugates and has even developed the first vehicle gamma ray shielding system for space.

These men have developed Quantum Biology healing products tested by Dr. Beverly Rubik. https://www.bitchute.com/video/7sp4q5k222sh/

Happy Reading/ Viewing,
Al Kacperski

From Beverly Rubik: Passing of Dr. Effie Chow

On Nov 19, Dr. Effie Chow made her transition peacefully at home. She was 89 and suffering from a blood disorder.

I'm not sure whether the USPA knew Effie, but she was a well-known energy healer and qigong teacher as well as an L. Ac., and R.N, who ran her own nonprofit out of San Francisco EastWestQi. She hosted numerous international conferences on qigong and TCM over several decades, where I met and witnessed amazing qigong masters do amazing things. She will be sorely missed.

About Dame Dr. Effie Chow:

Dame Dr. Effie Poy Yew Chow, reputed as "Mother of Qigong in the West" was a clinician, administrator, policy-maker, visionary, author, and WWII refugee steeped in Chinese culture including "miracles" of Traditional Chinese Medicine and Qigong.

Where all else failed, her Chow Integrated Healing System/Chow Medical Qigong (CIHS/CMQ) was often successful. She had a PhD in education, was a psychiatric/public health nurse, a behavioral scientist and communications expert, an acupuncturist CA & NCCAOM, and Qigong Grandmaster. She has been a Research and Systems Policy consultant for over 37 years with NIH and other departments of DHHS.

Dr. Chow was one of 20 appointed by then President Bill Clinton to his White House Commission on Complementary and Alternative Medicine Policy (WHCCAMP). Her multi-award-winning talents and skills have been not only in health, but in sports, dance, singing, modeling, cuisine, and painting.

Working in her father's businesses lent her the diversity and business acumen to deal with today's challenging and chaotic world. She has lectured or seen patients in over 25 hospitals/universities worldwide including Stanford, University of Hawaii, UBC, and the King's Hospital in Bangkok, with over 2500 media appearances and volunteers 75% of her time to humanity causes. The nonprofit 501(c)3 East West Academy of Healing Arts founded in 1973 was dedicated to her selfless father, Wah Sing Chow.

Nick Franks- One of the USPA Masterclass Presenters -Introduces His Latest Book

The book: *21st Century Radionics: New Horizons in Vibrational Medicine 2nd edition.* (September 2022) ISBN 978-0-9573111-2-1 is presented in this interview: https://youtu.be/Iwr0J8WrskQ

The first edition was published in July 2012 after nearly four years of work. The second edition has many expansions of the text, rewrites of some chapters, general clarifications, and developments of themes. The general purport and ideas of the first edition remain intact, however, and the underlying concepts originally proposed have not changed in any significant aspect.

RADIONICS: SPOOKY ACTION AT A DISTANCE. Radionics is a controversial therapeutic modality that combines Radiesthesia (pendulum dowsing and related sensory skills) with the use of psycho-activated codes, symbols and instruments. Radionics has developed such that it may be used to treat not only humans but also animals, crops and soils, and, potentially, the ecosphere itself. The basis, therefore, is the contention that human consciousness can be projected in a manner that can influence the action of Nature to a positive effect.

Nick Franks made an attempt to answer the central question 'but how could it possibly work?' The attempt to answer this question forces a rethink of fundamental ideas about man, Nature, and the origins of what we perceive to be reality. In response to critiques of Radionics which claim it is some form of magic, Nick suggests that Radionic techniques arise from the inner structure of Nature itself.

"We live in this world and think we know what is going on and what it is. But the reality is very different and very little understood to where we are now." (Nick Franks) Or to freely paraphrase Aubrey Westlake (1893-1985) "The truth about reality can only be revealed in so far as our finite minds can comprehend it."

Topics being discussed:

- 1. What is the Field of Information? (06:09)
- 2. How to balance or instruct the Field? (08:15)
- 3. Difference between dowsing and radionics.
- 4. Distinction between extra and extended sensory perception. (12:46)
- 5. Radionic instruments (14:33)
- 6. How to develop Radionic codes (15:53)
- 7. What brought you to do Radionic research?
- 8. What can you do with Radionics? (22:25)
- 9. Radionics concerning quantum mechanics. (23:40)
- 10. Radionics and the environment. (25:58)
- 11. What were your greatest challenges? (35:02)
- 12. The supra-natural does exit. (37:59)
- 13. Lessons learned. (43:36)
- 14. What happened with the UFO sighting in the Netherlands? (46:20)
- 15. Alternative viewpoint. (50:10)
- 16. Scientific boundary limitations. (52:16)
- 17. The "E" of real estate, Accommodation for your left or right brain. (1:01:54)

BIO: Nick Franks was born in Manchester (UK) and educated at Manchester University where he received an Honours degree in Economics. In 1973 he co-founded AMEK SYSTEMS & CONTROLS LTD (later AMEK TECHNOLOGY GROUP Plc

. In 1997 Nick departed the professional audio industry and began to develop an existing interest in Radionics and Homoeopathy. Almost entirely self-taught in both Radionics and Homoeopathy, his current main line of work is the development of Radionic instruments and codes.

USPA will present a Interview of Nick Franks by Michael Leger and Dan Taylor for our Mastersclass in April of 2023



Dan Taylor Shares the Research Article: Exploring the Effects of Potentization by Electron Microscopy, Raman Spectroscopy and AI Algorithms

Camelia Berghian-Grosan, Drosos Kourounis, Alin Sebastian Porav, and 3 more. This is a preprint; it has not been peer reviewed by a journal.

https://doi.org/10.21203/rs.3.rs-2127297/v1 This work is licensed under a CC BY 4.0 License **Abstract**

Potentization is a process of successive dilutions and vigorous succussions of a substance or initial tincture. Transmission electron microscopy is adopted for the investigation of potentized ethanol- and water-based solutions of gold and reveals nanoparticles and various assemblies formed in accordance with the level of potentization. Raman spectroscopy is further applied in combination with artificial intelligence algorithms for the analysis of potentized purified water, unpurified water, and purified water-based gold solutions. The proposed methodology is promising and sound in distinguishing potentized and non-potentized spectra or spectra obtained at different levels of potentization.

Introduction

Potentization is a process that involves successive dilutions and succussions (vigorous shaking); it was first introduced by the German physician Samuel Hahnemann, who observed that solutions of substances that have undergone this process have a biological effect in humans - with therapeutic evidence1. To date, numerous homeopathic remedies have been used, and they are very well documented2–8; they are derived from a wide variety of substances that undergo potentization to obtain their healing properties.

Several insightful perspectives attempted to explain the action of homeopathic remedies9–12. The impact of succussion on some homeopathic remedies, such as Echinacea 10–2, Baptisia 10–3, Baptisia 10–4, Luffa 10–4, and Spongia 10–6, has been recently highlighted via the aid of droplet evaporation and statistical analysis; these samples have been manufactured in accordance with the European Pharmacopoeia rules for homeopathic drugs, and the authors have employed 0, 10, 100 succussion strokes for this study. The results showed significant differences for all the investigated preparations13.

The impact of succussion onto solutions of proteins and pharmaceutical preparations is well known, and some measures for mitigating its effects have been proposed in recent studies 13–15. However, for homeopathy, shaking together with dilution is an essential tool for remedy preparation. A major concern regarding potentized solutions at high dilutions (30C, 200C, etc.), beyond the Avogadro number that sets the dilution limit (12C) beyond which the original substance cannot be attended, is that the starting material 16 is not expected to be found at even the slightest amount. Nevertheless, in a study based on medicines obtained from metals, Chikramane et al. demonstrated the presence of the starting materials, in the form of nanoparticles, in extreme dilutions of 30C and 200C by transmission electron microscopy (TEM), electron diffraction and inductively coupled plasma-atomic emission spectroscopy (ICP-AES)9.

The Benveniste experiment17 shortly after the release of its findings was proven false by a scientific committee sent by the journal Nature to his laboratory, as was explained by George Vithoulkas in his paper18 "The controversy over the memory of the water." Water is a peculiar solvent that plays an important role in biological and chemical processes19. Therefore, it has been a continuous interest for understanding the anomalous properties of liquid water, and many experimental and theoretical studies have been carried out to understand its structure20,21. Nevertheless, the structure and dynamics of water are still under continuous debate22. The sensitivity of the OH stretching mode to different local environments allows the use of vibrational spectroscopy in the study of the structure and dynamics of liquid water20. The investigation of liquid water by infrared and Raman spectroscopy reveals broad peaks in the OH stretching region, suggesting multiple underlying

contributions (from various species induced by different local hydrogen-bonding arrangements), while distinct peaks can be clearly seen in the spectra of ice23. In 2009, Q. Sun24 analyzed liquid water under ambient conditions by Raman spectroscopy and proposed the deconvolution of the OH stretching region into five sub-bands. However, due to the complexity of water and to the high dilutions of the investigated solutions, such an analysis is a very difficult task and a considerable challenge.

Classification is a process that aims to recognize and discriminate objects, or data, into preset categories or groups. Classification can be considered "pattern recognition," where classification algorithms are applied to a collection of observations to identify similar patterns in subsequent sets of data. Machine learning (ML) algorithms25, 26 are currently gaining increasing popularity in classification applications. They rely on large training data sets from which they infer a model that captures the mapping between observation and prediction so that once the training data are adequately described by this map, future data will be able to be accurately predicted or assigned to predefined categories, as required by a classification application. Recently, ML methods have successfully been applied for discriminating various complex materials' Raman spectra (i.e. minerals) or classifying of high-dimensional spectroscopic data27–30. The most successful classification algorithm from the list of several ML algorithms employed to try to determine the mine of origin and the extraction depth of specific samples of variscite27 was the support vector machine (SVM) algorithm, which achieved quite high precision (approximately 90%). In a recent work28, a novel application of a locally connected neural network (NN) for the binary classification of spectroscopy data was proposed and demonstrated to yield improved accuracy over traditionally popular algorithms. The use of synthetic training spectra was attempted, and the SVM algorithm did not lead to significantly better predictions. The authors also devised a two-step classification process that combined the locally connected NN classifier, the use of synthetic training data, and an auto-encoder-based outlier detector that resulted in a prediction model achieving both high classification accuracy and robustness against the presence of negative outliers.

The present work attempts to investigate the structural organization of potentized ethanol- and water-based solutions of gold, a homeopathic remedy named Aurum metallicum (AUR). Three highly diluted (6C, 30C and 200C) AUR solutions were submitted to TEM analysis by two independent labs located in Romania and Turkey. Different organizations of these solutions were confirmed by both l abs. The choice of these centesimal dilutions was motivated by the necessity for investigation of solutions containing low amounts of the initial substance, even beyond the Avogadro number (last two of them). Raman spectra were also obtained for various potentized water-based solutions (purified water-PW, unpurified water-UW and PW-based gold-AUR) and processed by artificial intelligence (AI) algorithms in an attempt to investigate the ability of AI to discriminate between these solutions and to classify in rapport with the three levels of potentization, namely, 6C, 30C, 200C.

Materials And Methods Materials

All the investigated solutions were prepared by the Korres company (Athens, Greece), a company certified by the National Medicines Agency (EOF - Greece). These solutions were produced in accordance with the protocol from the German Homeopathic Pharmacopoeia (GHP).

Transmission Electron Microscopy

For the TEM studies, two types of AUR samples were involved; the first type containing AUR prepared in 50% v/v ethanol solution was analyzed in Romania and noted as the RO – AUR sample, while the second type of AUR was prepared only in purified water and was subjected to analysis in Turkey (denoted W- AUR). For both types of AUR, three potentized samples were investigated,

namely, 6C, 30C and 200C. The C notation is associated with the centesimal dilution and means 1 part of concentrated solution/previously potentized solution to 99 parts of eluent (mass/mass).

Raman investigations

For the Raman investigations, the solutions were divided into three categories/classes: purified water (PW), unpurified water (UW) and AUR. Additionally, we consider for the PW and UW classes non-potentized samples (the references of the water that have been used for the potentization processes) and three types of potentized water samples (6C, 30C and 200C); for each type of the potentized water samples, three batches were realized on three different days. For the AUR category, only the potentized solutions have been considered for investigation. This means a total number of 12 samples for PW, 12 samples for UW and 9 samples for AUR. Purified water (PW) is the water generally used for the homeopathic remedies' preparation, while unpurified water (UW) is a partially purified water and has the following characteristics, as indicated by Korres company: PW – conductivity 0.7–0.88 μ S/cm, pH 6.4–6.8, NO3–<0.2 ppm, Al < 3–5 ppb, As < 0.005 ppm, Pb 0.00032 ppm, Cd < 0.001 ppm, Hg < 0.0005 ppm (total heavy metals 0.00682 ppm, limits to < 0.1 ppm), while UW - conductivity 196 μ S/cm, pH 7.8, HCO3– 66 ppm, Cl– 22 ppm, NO3– 9.8 ppm, Na+ 15 ppm, Ca2+ 10 ppm, Mg2+ 8.8 ppm, CO2 9.7 ppm. All samples were prepared in accordance with the German Homeopathic Pharmacopoeia, European Pharmacopoeia and Good Manufacturing Practice Guideline 31.

Methods

Romanian TEM and EDX procedures

The structural and morphological characterization of the Aurum metallicum samples was realized on a Hitachi HD-2700 scanning transmission electron microscope (STEM) equipped with a secondary electron (SE) detector, transmitted electron (TE) detector (Hitachi High Tech., Japan) and a cold field emission gun designed for high-resolution (HRTEM) imaging with a resolution of 0.144 nm. Carbon-coated TEM grids were treated with 6 µl of the potentized solutions of AUR. that were previously 10 times succussed for homogenization. After 1–2 minutes, the excess liquid was blotted by Whatman grade 1 filter paper, and the grids were allowed to dry in air. The samples were analyzed using the STEM system operated at 200 kV. A dual EDX System, namely, X-Max N100TLE Silicon Drift Detector (SDD), from Oxford Instruments was used for the EDX investigations.

Turkish TEM and EDX procedures

TEM images of the three potencies (6C, 30C and 200C) of Aurum metallicum were obtained using a Hitachi TEM HT 7800 operating at 100 kV acceleration voltage. For this purpose, after each sample was shaken 10 times, 1 drop was dripped onto a carbon-coated grid and allowed to dry in a clean environment. EDX analysis of samples was performed using Oxford Instruments X-MaxN connected to the same TEM device to support the presence of gold.

The histograms prepared for both Romanian and Turkish TEM images were realized based on the data obtained with ImageJ software (NIH, USA).

Raman spectroscopy

Raman spectra were recorded on an NRS-3300 (Jasco, USA) Raman spectrometer equipped with a CCD detector using a 514.5 nm laser (green light) excitation. The solutions were analyzed in glass capillary tubes (Marienfeld, Germany) with diameters of 1.5–1.6 mm. An Olympus objective UMPLFL 20X, 600 l/mm grating, 0.1×6 mm slit, an exposure time of 120 s and three scans were employed to record the Raman spectra from approximately 72 cm⁻ 1 to 4020 cm⁻ 1. The 521 cm⁻ 1 peak, corresponding to Si, was used to calibrate the spectrometer. Each sample was analyzed at five different points. The raw and noisy data obtained were preprocessed for the ML study by applying baseline removal and normalization to [0, 1]. More precisely, the minimum was subtracted from the spectra so that the minimum of each was zero, and then each spectrum was normalized by its

maximum so that the maximum of each was equal to one. No PCA method was used for this analysis. No data denoising or smoothing was applied. Outliers were not removed from the data set.

Classification algorithms

Classification algorithms have been used for the analysis of Raman spectra recorded for the samples described in the Materials/Raman investigations section. More precisely, from a variety of AI algorithms commonly used for this purpose, several ML algorithms have been employed, such as decision trees, discriminant analysis, support vector machines, nearest neighbor, ensemble classifiers, deep learning, and optimized algorithms with respect to the parameter choice for all these classes of classification methods. The ML toolbox of MATLAB R2021b (MathWorks, USA) was used for the classification study.

Results And Discussion

TEM investigation

Transmission electron microscopy is a valuable tool that provides fundamental data about the nanomaterials' organization; this knowledge is very important for the materials science understanding and development, and in the same way, for the field of the highly diluted solutions which are also constituted from nanostructures.

Aurum metallicum 6C

Figure 1 contains several TEM images obtained with two different instruments (see Materials and methods section) for the 6C potency of AUR. Two different media have been employed for its preparation – the first one is a 50% v/v ethanol solution and it has been used for the AUR samples analyzed in Romania (E-AUR 6C). The second one is purified water and has been employed for the samples investigated in Turkey (W-AUR 6C). Despite the underlying differences in solvents, the obtained TEM images are quite similar regarding the shape of the nanoparticles. However, the nanoparticle size depends on the solvent type. This is revealed in the histograms of the two samples, indicating smaller nanoparticles for the E-AUR 6C than for the W-AUR 6C (Fig. 1C, G), most likely because ethanol is more effective as a stabilizing agent than water. The EDX data (insets from Fig. 1 and Supplementary Fig. S1 and S2) show a comparable percentage for gold – Au in both samples and the presence of silicon - Si and oxygen - O (the copper – Cu is from grid).

Aurum metallicum 30C

Furthermore, the 30C potency of AUR was investigated; Fig. 2 and Supplementary Fig. S3–S6 show the TEM images, EDX data and TEM-EDX mapping acquired for this potency. Here, it is worth mentioning the similarities between the two samples, E-AUR 30C and W-AUR 30C, in terms of the nanostructure shape and impurities visibility. As in the previous case, potency 6C, the size of the nanoparticles/nanostructures tends to be smaller for the E-AUR sample compared to W-AUR, Fig. 2C, G; this behavior is explained by the capacity of ethanol to act as an efficient stabilizing agent. Moreover, the histograms from Figs. 1 and 2 depict smaller nanostructures in the E-AUR 30C sample compared to E-AUR 6C, and a significant decrease of that larger than 150 nm from the water-based samples; these large structures are clearly seen in W-AUR 6C, but only in traces in the W-AUR 30C sample. This significant change in the profile of the two potencies, 6C and 30C, appears after the potentization process, which involves several successive dilutions and succussions.

As a general observation, silicon (Si) and oxygen (O) are the two elements omnipresent in the potency of 30C, while isolated nanoparticles containing impurities such as iron (Fe), titanium (Ti), calcium (Ca), magnesium (Mg), and aluminum (Al) are visible in the E-AUR 30C sample, where the constituents seem to possess smaller sizes (Fig. 2 and Supplementary Fig. S3–S5). These impurities originate either from the solvent used or could be formed in the potentization treatment by dissolution from the glass vials (e.g., Si or Ti). The reason that these impurities appear so evident in potency 30C can be attributed to the size of the remedies' constituents, which is smaller than the size of the other two potencies 6C and 200C, as depicted in the histograms of Fig. 1C, G, Fig. 2C, G. and Fig. 3C, G.

In addition, the filiform profile observed in the W-AUR 30C sampling, Fig. 2D, the occurrence of some arrangements based on carbon (C) in the E-AUR 30C case, Supplementary Fig. S5B, and the presence of gold in the two 30C potency samples, Fig. 2 inset and Supplementary Fig. S3 and S6B, must also be highlighted.

All these observations suggest a different organization for the 6C and 30C potencies of AUR and prove the presence of both nanoparticles and cluster assemblies in the 30C samples. Thus, the clear nanoparticle shape of impurities and the filiform/cluster assembly profile formed from small structures promote the idea that at least for AUR 30C, the observed organization is not so much related to the nanoparticulate systems but more to a large assembly (large clusters) of small structures. Most likely, these clusters also contain ethanol and water (in E-AUR) or water (in W-AUR) molecules, while impurities, either isolated or linked to these large assemblies, appear as nanoparticles (clear round shape and different sizes). Although the presence of gold has been identified in all the investigated samples, it appears scattered on the grid surface in the TEM-EDX mapping images.

Aurum metallicum 200C

The characteristics of the 200C potency are illustrated in Fig. 3 and Supplementary Fig. S7–S9 by analyzing two samples (E-AUR 200C – prepared using an aqueous 50% v/v ethanol solution and W-AUR 200C – obtained only with purified water). The general tendency, already observed for the 6C and 30C potencies, is also present here; more precisely, the size of the nanostructures from the E-AUR 200C sample is smaller than those of the W-AUR 200C, as revealed in the histograms from Fig. 3. Moreover, for both 200C samples, the nanoparticles are larger in size than the nanoparticles observed at 30C potency and very different in size and shape from the nanoparticles at 6C potency (Figs. 1–3).

A distinct organization and the total lack of impurities inside some AUR 200C cluster associations are incontestably displayed in Fig. 3B. Moreover, the preference for the branched assembly of AUR 200C seems to be clear for both samples, Fig. 3A, D, while the presence of some small amounts of impurities such as silicon (Si) and iron (Fe) in these clusters is demonstrated by the EDX data presented in the inset of Fig. 3 and Supplementary Figs. S7, S9B. These results suggest an extended organization of AUR 200C molecules, also indicating the existence of stable and organized structures over a larger area. In the case of 200C potency of AUR, the impurities are also identified as a large assembly presented in Supplementary Fig. S8B. Thus, the TEM-EDX mapping shows the presence of large impurities (micrometer scale) such as silicon (Si), aluminum (Al), iron (Fe) and oxygen (O) linked together.

Some of these results are sustained by the literature data; thus, the presence of gold, even athigh potencies, 30C and 200C, of Aurum metallicum, which are beyond the Avogadro number, have also been shown in the papers of Chikramane et al.9 and Rajendran32. In the Chikramane work, the elemental composition of TEM particles was identified by selected area electron diffraction (SAED) investigation and sustained by inductively coupled plasma-atomic emission spectroscopy (ICP-AES) analysis9.

The study of Rajendran highlights the idea that nanoparticles are found mostly on the quantum dots scale in all solutions; their particle sizes are more or less similar to our data32. This nanoparticulate perspective is also supported by our findings, but in addition, our results demonstrate that AUR's structure combines a mixture of nanoparticles and cluster arrangements, which are formed by smaller or larger nanostructures. The latter are more evident for the high dilutions that are beyond the Avogadro number and are influenced by the solvent nature and by the level of potentization; the higher the potency, the more branched and larger structures are formed. This organization extended over a large area should lead to structures that are more stable and could be detected by various investigations. To verify this hypothesis, Raman spectroscopic measurements were additionally employed.

Raman Spectroscopy And Machine Learning Investigations

For all the aforementioned reasons, and due to larger assemblies observed in TEM for the water-based samples, Raman spectroscopy was applied to water-based solutions only. The objective was to investigate the transformations that appear in three classes: purified water (PW), unpurified water (UW), and AUR. PW is the water generally employed for the homeopathic remedies' preparation, while UW is a partially purified water; these types of water possess different characteristics. Here, we retain the low conductivity of PW samples (0.7–0.88 μ S/cm) and their low levels of ions (NO3–<0.2 ppm, Al < 3–5 ppb, total heavy metals 0.00682 ppm), and note, for the UW samples, the higher values of the conductivity (196 μ S/cm) as well as the higher concentration of different ions (nitrate, carbonate, sodium, etc.), see Materials section for more details.

Potentization was applied to the PW, UW, and AUR samples prepared at three different days to obtain three batches of potentized samples at 6C, 30C and 200C potencies. The PW and UW are not generally potentized for commercialization; the potentization procedure was applied to them only for this study, and thus, 33 samples were analyzed by Raman spectroscopy. Each sample was analyzed at 5 points to obtain representative data of the investigated solutions. A total of 165 Raman spectra (domain 72-4020 cm-1) were subjected to the classification study.

In effect, we attempt to investigate if this methodology (based on Raman spectroscopy and machine learning algorithms) is able to classify solutions not significantly different in structure, such as i) purified versus unpurified water solutions, where the differences between them are subtle, since the unpurified water used in these experiments is essentially purified water used in cosmetics, and ii) purified water versus Aurum metallicum solutions, where the differences are due to the presence of very low concentrations of gold in the Aurum metallicum samples. Note that the complexity and dynamics of water-based structures have a response in the investigated Raman region (especially OH stretching range), as demonstrated by Q. Sun24 and several other authors20–23.

Average Raman spectra are shown in Fig. 4 (left), obtained for different levels of potentization (6C, 30C, 200C) of the investigated classes (PW, UW and AUR) plotted together with spectra of non-potentized PW and UW samples. More details containing the Raman spectra of each of the 5 points registered for each sample are presented in Supplementary Figs. S10-S12. The PW spectra showed the characteristic H-O-H bending vibrations of water at approximately 1646 cm-1 and the O-H stretching signals in the 3000–3700 cm-1 region33. The variations observed in both regions (bending and stretching vibrations of water) of the three investigated classes could be the result of different intra- or intermolecular interactions that depend on the local molecular environments of each sample34. These differences are obvious by simple inspection and are further analyzed by ML algorithms in an attempt to examine the capacity of AI tools to differentiate Raman spectra obtained from potentized and non-potentized solutions.

Some AI tools commonly adopt ML methods that have proven efficient in discriminating various complex materials' Raman spectra (i.e. minerals) or classifying of high-dimensional spectroscopic data27,28. For the classification study, several ML algorithms have been employed to differentiate these spectra by making use of various classification models, such as decision trees, discriminant analysis, support vector machines, nearest neighbor, ensemble classifiers, deep learning, and optimized algorithms with respect to the parameter choice for all these classes of classification methods available in MATLAB R2021b (MathWorks, USA). The best parameters for all optimized models are listed in Tables 1 and 2. The default choice of k-fold cross-validation, with k = 5, was used throughout, which is one of the most popular resampling techniques for protection against overfitting, and it generally delivers a less biased estimate of the model skill than other methods, such as simple train/test splits35.

Confusion matrices are commonly employed when solving binary classification as well as multiclass classification problems. A confusion matrix summarizes the classification performance of a classifier with respect to some test data. It is a two-dimensional non-symmetric matrix, indexed in one dimension by the true class of an object and in the other by the class that the classifier assigns 36. Their

entries represent counts from predicted and actual values. Each entry in a confusion matrix denotes the number of predictions made by the model where it assigned classes correctly or incorrectly. The diagonal entries of a confusion matrix represent the number of instances that the classifier has correctly assigned. The classes are listed in the same order in the rows as in the columns; therefore, the correctly classified elements are located on the main diagonal from top left to bottom right, and they correspond to the number of times the two raters agree. The columns represent the predicted classification, whereas the rows display the true classification.

Classifying classes

First, we investigated the capacity of the ML algorithm to recognize spectra that belong to the same class and group them together. From all the ML algorithms and their optimized versions with respect to the choice of parameters, the optimized KNN model, using the parameters shown in Table 1, demonstrated the ability to classify between different classes AUR, PW, and UW, with only 3 out of 165 misclassified spectra. More precisely, only a single spectrum of AUR 6C was classified as UW 30C, one spectrum of PW 200C was misclassified as UW 30C, and finally, one spectrum of UW 30C was classified as AUR 6C. The classification result is summarized in the confusion matrix of Fig. 4 (right) and indicates a different organization of the three investigated classes. It seems that the potentization results are strongly influenced by the type of substrate submitted to the process; they can be seen as a certain type of organization of the initial structures. In other words, the potentization process can be realized on purified water, on purified water containing a substance or on water containing different impurities/ions, and for each case, it leads to the formation of some specific, organized structures. Note that these results have been obtained on three batches, prepared in three different days, so possessing some variations of the starting solutions' characteristics. Even in these circumstances, the model is able to find structures that are specific to each class; these considerations allow us to assume that the potentization process imprints on each class a specific organization that is not affected by the minor variations of the initial solutions' properties.

Table 1. Optimal parameters for the KNN model used for classifying among different classes Table 2. Optimal parameters for classifying potencies within each solution class (PW, UW, AUR) and within solutions of the same potency (6C, 30C, and 200C)

Despite the success of KNN for discriminating among the AUR, PW and UW classes, the classification score achieved was only 61.2%. A careful inspection of Fig. 4 (right) reveals that within each class, there are several misclassified spectra. We therefore attempt a further refinement of these results within each class.

Classifying potencies within each class

All possible ML algorithms with their associated optimal versions were applied to 3 different datasets, one dataset for each class group, more precisely (PW, PW 6C, PW 30C, PW 200C), (UW, UW 6C, UW 30C, UW 200C), (AUR 6C, AUR 30C, AUR 200C, PW). The potency levels of the AUR class were classified against the spectra obtained from the non-potentized PW class to investigate whether the ML algorithm can distinguish AUR spectra at any potency level from non-potentized purified water spectra. The optimal hyperparameters are listed in Table 2.

In Fig. 5 (left), we observe that for the PW class, non-potentized PW spectra (first row) were successfully recognized. Spectra from PW 30C and PW 200C samples were also classified with satisfying accuracy, 14 out of 15 for PW 30C and 13 out 15 correspondingly. For UW and UW 6C, 14 out of 15 spectra were also correctly classified (Fig. 5, middle). From the AUR class, all spectra were successfully discriminated from spectra of the PW class, and there were no misclassifications of PW as AUR at any potency or vice versa, but a good similarity of the spectra was found only for AUR 200C, where 12 out the 15 spectra were correctly assigned (Fig. 5, right).

The ability of ML to differentiate spectra obtained by these classes can be attributed to the nanostructures formed inside each class during the potentization process and each different level of

potentization. Nevertheless, dynamics between different H-bonding structures have been reported even inside liquid water24. Therefore, the ML results reveal a strong relation between the H-bonding structures formed during the potentization process and the potentization level. However, further studies are necessary to verify, understand the physical process, and explain how the potentization level can be derived from Raman profiles.

Classifying within the same levels of potentization

Finally, we investigated the ability of ML algorithms to classify potentized PW, UW, and AUR samples at a particular potency from the non-potentized PW and UW. More precisely, we formed the following groups: (AUR 6C, PW, PW 6C, UW, UW 6C), (AUR 30C, PW, PW 30C, UW, UW 30C), and (AUR 200C, PW, PW 200C, UW, UW 200C). From all the available classification algorithms, SVM achieved the highest classification scores, more precisely 90.7% for the 6C group and 88% for the 30C and 200C groups. The optimal hyperparameters are listed in Table 2. The classification results summarized in the confusion matrices presented in Fig. 6 demonstrate that such a classification is possible and fairly accurate since, at each potency, very few spectra were misclassified. More precisely, at potency 6C, only one AUR 6C spectrum out of 15 was misclassified as UW 6C and vice versa, while for UW, all 15 spectra were correctly classified. At potency 30C, 2 out of 15 AUR 30C spectra were misclassified as PW 30C and UW 30C, all 15 PW spectra were correctly classified, and only 3 out of 15 UW spectra were misclassified as AUR 30C and UW. At potency 200C, only 1 out of 15 AUR 200C spectra was misclassified as UW, and only 1 of the 15 UW spectra was misclassified as UW 200C, while all UW 200C spectra were correctly classified.

These results are sustained very well by the TEM data presented in Figs. 1, 2, and 3, which indicate a different organization of the three types of potentized samples. Thus, the TEM images of the 30C sample of AUR showed more impurities visible in the collected images, while the investigation of the Raman data indicated some similarities with the 30C potentized samples of PW and UW solutions. The authors assumed that the impurities are more easily visible in the 30C potency due to the smaller size of the organized therein cluster constituents, and consequently, these observations highlight the final solution dependence of the eluent purity, as well as the fact that various structures could be part of the initial solution. Thus, the ML analysis of the AUR 30C solution indicates exactly the same 30C potency dependence of the eluent composition, and for this reason, the Raman data of some samples appeared to possess similarities with the spectra of the 30C potentized PW or even UW solutions.

Considering the PW and UW probes, it is evident that the potentization process also applied to these samples. It seems that more similarities between the batches are found inside the potentized UW samples, PW spectra showing fewer similarities during the ML analysis. The classification results obtained in this study involve a relatively low number of samples, which is why the SVM family of algorithms seems to perform better than the rest. Further investigations are therefore required, and sufficiently more measurements are required to unequivocally determine the reproducibility of these results.

Conclusions

The existence of different nanoparticle clusters at different potencies of Aurum metallicum solutions (6C, 30C, 200C) was revealed via TEM. In this context, the presence of nanoparticles in the 6C potency and of both nanoparticles and cluster assemblies in the highly diluted solutions (30C and 200C, dilutions beyond Avogadro number) was also demonstrated. Differences between the assemblies of nanoparticles into clusters for the highly diluted solutions (30C and 200C) were further observed. Moreover, using EDX evaluation, the existence of gold was pointed out in all the investigated samples.

Classification of Raman spectra with ML algorithms revealed great potential in distinguishing between potentized and non-potentized spectra or spectra obtained at different levels of potentization. This fact indicates the existence of different organizations for each class at each potentization level,

suggesting that the outcome of potentization is strongly influenced by the type of substrate submitted to the process. The potentization process can take place on purified water, on purified water containing a substance or on water containing different impurities/ions, forcing the reorganization of the original substance/ions to particular structural arrangements, depending on the potency level. The similarity between some spectra recorded for the UW samples with that of AUR implies that some "topologies" inside the unpurified water (that can be formed by potentization of the containing amounts of bicarbonates, nitrates or other ions) may be similar to those in AUR. The impurity-generated structures are always present and could degrade the quality of the remedy. For this reason, the use of purified eluents during the potentization process should be preferred.

Processing and classification of Raman spectra via the aid of AI algorithms proved adequate in discriminating potency levels of AUR and fully successful in discriminating AUR at potencies 6C, 30C, and 200C from non-potentized double purified water. This ability was also demonstrated with sufficient accuracy for unpurified water and even more surprisingly for double purified water. Further studies are necessary to verify and explain how potentization levels are correlated with Raman profiles. However, this study demonstrates that electron microscopy and the combination of Raman spectroscopy with AI algorithms could successfully be applied for the characterization of homeopathic remedies' solutions.

References

- 1. Hahnemann, S. Organon of Medicine (B. Jain Publishers (P) Ltd, New Delhi, 2012), 6th edn.
- 2. Hering, C. D. Hering's materia medica (William P. Kildare, Philadelphia, 1872).
- 3. Allen, T. F. The encyclopedia of pure materia medica; a record of the positive effects of drugs upon the healthy human organism, vol. 7,8 (Boericke & Tafel, New York, Philadelphia, 1874).
- 4. Allen, T. F. The encyclopedia of pure materia medica; a record of the positive effects of drugs upon the healthy human organism, vol. 10 (Boericke & Tafel, New York, Philadelphia, 1879).
- 5. Allen, T. F. A handbook of materia medica and homoeopathic therapeutics (Boericke & Tafel, New York, Philadelphia, 1889).
- 6. Kent, J. Lectures on Homeopathic Materia Medica (B. Jain Publishers (P) Ltd, New Delhi, 2017), reprint edn.
- 7. Vithoulkas, G. Materia Medica Viva, vol. 1 (Homeopathic Book Publishers, London, 1995).
- 8. Vithoulkas, G. *Materia Medica Viva*, vol. 2–13 (International Academy of Classical Homeopathy, Alonissos, 2009–2021).
- 9. Chikramane, P. S., Suresh, A. K., Bellare, J. R. & Kane, S. G. Extreme homeopathic dilutions retain starting materials: A nanoparticulate perspective. Homeopathy 99, 231–242, DOI: https://doi.org/10.1016/j.homp.2010.05.006 (2010).
- 10. Anagnostatos, G., Vithoulkas, G., Garzonis, P. & Tavouxoglou, C. A working hypothesis for homoeopathic microdiluted remedies. Br. Homoeopath. journal 81, 67 (1992).
- 11. Bellavite, P., Marzotto, M., Olioso, D., Moratti, E. & Conforti, A. High-dilution effects revisited. 1. Physicochemical aspects. Homeopathy 103, 4–21, DOI: https://doi.org/10.1016/j.homp.2013.08.003 (2014).
- 12. Nandy, P. A review of basic research on homoeopathy from a physicist's point of view. Indian J. Res. Homoeopath. 9, 141–151, DOI: https://doi.org/10.4103/0974-7168.166372 (2015).

- 13. Kokornaczyk, M. O., Würtenberger, S. & Baumgartner, S. Impact of succussion on pharmaceutical preparations analyzed by means of patterns from evaporated droplets. Sci. Reports 10, 570, DOI: https://doi.org/10.1038/s41598-019-57009-2 (2020).
- 14. Randolph, T. W. *et al.* Do Not Drop: Mechanical Shock in Vials Causes Cavitation, Protein Aggregation, and Particle Formation. J. Pharm. Sci. 104, 602–611, DOI: https://doi.org/10.1002/jps.24259 (2015).
- 15. Gerhardt, A. *et al.* Protein aggregation and particle formation in prefilled glass syringes. J. pharmaceutical sciences 103, 1601–1612, DOI: https://doi.org/10.1002/jps.23973 (2014).
- 16. Novella, S. *et al.* A Debate: Homeopathy—Quackery or a Key to the Future of Medicine? The J. Altern. Complementary Medicine 14, 9–15, DOI: https://doi.org/10.1089/acm.2007.0770 (2008).
- 17. Davenas, E. *et al.* Human basophil degranulation triggered by very dilute antiserum against IgE. Nature 333, 816–818, DOI: https://doi.org/10.1038/333816a0 (1988).
- 18. Vithoulkas, G. The controversy over the "Memory of Water". Med Sci Hypotheses 4, 1–6, DOI: https://dx.doi.org/10.12659/MSH.901167, (2017).
- 19. Bagchi, B. Water in biological and chemical processes: from structure and dynamics to function (Cambridge University Press, 2013).
- 20. Nilsson, A. & Pettersson, L. G. M. The structural origin of anomalous properties of liquid water. Nat. Commun. 6, 8998, DOI: https://doi.org/10.1038/ncomms9998 (2015).
- 21. Pettersson, L. G. M., Henchman, R. H. & Nilsson, A. Water—The Most Anomalous Liquid. Chem. Rev. 116, 7459–7462, DOI: https://doi.org/10.1021/acs.chemrev.6b00363 (2016).
- 22. Liu, J., He, X., Zhang, J. Z. H. & Qi, L.-W. Hydrogen-bond structure dynamics in bulk water: insights from ab initio simulations with coupled cluster theory. Chem. Sci. 9, 2065–2073, DOI: https://doi.org/10.1039/C7SC04205A (2018).
- 23. Perakis, F. *et al.* Vibrational Spectroscopy and Dynamics of Water. Chem. Rev. 116, 7590–7607, DOI: https://doi.org/10.1021/acs.chemrev.5b00640 (2016).
- 24. Sun, Q. The Raman OH stretching bands of liquid water. Vib. Spectrosc. 51, 213–217, DOI: https://doi.org/10.1016/j. vibspec.2009.05.002 (2009).
- 25. Bishop, C. M. Neural Networks for Pattern Recognition (Oxford University Press, Inc., USA, 1995).
- 26. Gron, A. Hands-On Machine Learning with Scikit-Learn and TensorFlow: Concepts, Tools, and Techniques to Build Intelligent Systems (O'Reilly Media, Inc., 2017), 1st edn.
- 27. Díez-Pastor, J. F. *et al.* Machine learning algorithms applied to Raman spectra for the identification of variscite originating from the mining complex of gavà. J. Raman Spectrosc. 51, 1563–1574, DOI: https://doi.org/10.1002/jrs.5509 (2020).
- 28. Houston, J., Glavin, F. G. & Madden, M. G. Robust classification of high-dimensional spectroscopy data using deep learning and data synthesis. J. Chem. Inf. Model. 60, 1936–1954, DOI: https://doi.org/10.1021/acs.jcim.9b01037 (2020).
- 29. Senger, R. S. & Scherr, D. Resolving complex phenotypes with Raman spectroscopy and chemometrics. Curr. Opin. Biotechnol. 66, 277–282, DOI: https://doi.org/10.1016/j.copbio.2020.09.007 (2020).
- 30. Lussier, F., Thibault, V., Charron, B., Wallace, G. Q. & Masson, J.-F. Deep learning and artificial intelligence methods for Raman and surface-enhanced Raman scattering. TrAC Trends Anal. Chem. 124, 115796, DOI: https://doi.org/10.1016/j. trac.2019.115796 (2020).
- 31. Korres homeopathic production unit. https://youtu.be/NkNe-33Q008 (2020).

- 32. Rajendran, E. Homeopathy a material science: Nanoparticle characterization of Aurum metallicum 6C, 30C, 200C, 1000C, 10000C, 50000C and 100000C. Int J Curr Res 9, 48923–48927 (2017).
- 33. Durickovic, I. Using raman spectroscopy for characterization of aqueous media and quantification of species in aqueous solution. In Stauffer, M. T. (ed.) *Applications of Molecular Spectroscopy to Current Research in the Chemical and Biological Sciences*, Chap. 19, DOI: 10.5772/64550 (IntechOpen, Rijeka, 2016).
- 34. Seki, T. *et al.* The bending mode of water: A powerful probe for hydrogen bond structure of aqueous systems. *The J. Phys. Chem. Lett.* 11, 8459–8469, DOI: 10.1021/acs.jpclett.0c01259 (2020). PMID: 32931284, https://doi.org/10.1021/acs.jpclett.0c01259.
- 35. Anthony, M. & Holden, S. B. Cross-validation for binary classification by real-valued functions: Theoretical analysis. In *Proceedings of the Eleventh Annual Conference on Computational Learning Theory*, COLT' 98, 218–229, DOI: 10.1145/279943.279987 (Association for Computing Machinery, New York, NY, USA, 1998).
- 36. Ting, K. M. Confusion matrix. In Sammut, C. & Webb, G. I. (eds.) *Encyclopedia of Machine Learning*, 209–209, DOI: 10.1007/978-0-387-30164-8_157 (Springer US, Boston, MA, 2010).

10.1007/978-0-387-30164-8_157 (Springer US, Boston, MA, 2010).

Declarations

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Author contributions statement

C. B.-G. and G. V. designed the project and prepared the original draft; C. B.-G. performed the Raman measurements and formal analysis, while D.K. revised the manuscript and performed the ML study. A. S. P., I. D. and K. O. A. performed the TEM-EDX investigations; all authors reviewed the manuscript.

Declaration of competing interest

There is no conflict of interest to declare.

Data availability

Raman raw data supporting the findings of this study are available on request from the corresponding authors.

Tables 1-2 are available in the supplementary files section.

Supplementary Files

Supplementaryfiles.docx

Tables.docx

1 https://www.cnn.com/2022/12/01/world/scientists-baby-wormhole-scli-intl-scn/index.html?utm_term=166998134175143f326c28e73&utm_source=cnn_Five+Things+for+Friday %2C+December+2%2C+2022&utm_medium=email&bt_ee=VpUW3FbkIijxHNSoKFYG%2FdxDrOadtEhjJ%2FklagIR%2F%2B%2B%2Bu8DQdsOWbRtiHMoQQ6ED&bt_ts=1669981341753

Agrivoltaics Pairs Solar Panels With Farming, Solving Multiple Climate-Caused Problems ²

April Siese Thursday July 21, 2022 · 2:07 PM EDT



Agrivoltaics are being explored worldwide and researchers are already reporting benefits when it comes to boosting renewable energy and protecting crops.

Extreme temperatures and weather events are <u>fast becoming the new normal</u> thanks to climate change. With heat waves blistering the planet, researchers are finding creative ways to make the most of hot, sunny days through renewables while also addressing agriculture woes. <u>Oregon Public Radio</u> has a delightful write-up of an emerging solution clearly having a moment after more than a decade of obscurity. Agrivoltaics uses solar panels to shade and protect crops and even grazing animals while those panels generate electricity. <u>Oregon State's research farm</u> in Corvallis has already embraced the technology and found that crops shielded by solar panels required less water. In turn, those same crops could be shielded from frost when temperatures drop.

Oregon State agriculture professor Chad Higgins explains how solar panels have already helped the university's research farm crops amidst the current heat wave gripping more than 100 million Americans. "What they do is what we do when we're out in the sun: we sweat," Higgins told OPR.

"Plants do something similar where they use water to keep their leaves cool enough for photosynthesis so, if you take that stress off them, now they're using less water." Higgins found through research he co-authored two years ago that even just reserving 1% of farmland in the U.S. to be used for agrivoltaics could meet 20% of the country's electricity needs through renewables, to say nothing of the profits earned from farming. "I think the keywords are: more food and better food, less water, extra revenue for the farm. It's a four-way win for farmers," Higgins told OPR.

² https://www.dailykos.com/stories/2022/7/21/2111772/-Agrivoltaics-pairs-solar-panels-with-farming-solving-multiple-climate-caused-problems?detail=emaildkre&pm_source=DKRE&pm_medium=email

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10-15-2022 USPA Masterclass # 34 David Oates Presenting "Reverse Speech" Chat:

Time	Attendee	Comment
0:31:20	george m :	hello im from south Africa and i'd like to know how long this presentation would be because there might be load shedding and i'd like to charge my laptop in case of the unexpected power out
0:33:33	USPA	Please support USPA by donating and or become a member at psychotronics.org
1:10:54	USPA	I will ask david when we are done!!!
1:11:32	USPA	write out your questions here
1:24:12	lgor N :	Bravo!
1:24:13	Trina C:	Bravo! David!
1:24:44	Ann R:	Fascinating!!!

1:24:47	Maria P :	Thank you
1:25:30	Gayle N :	Excellent!
1:25:46	Maria P :	What about in other languages. Is it applicable only in English?
1:25:55	Cata C:	Thank you David for this amazing technology.
1:26:58	Maria P :	I am Greek thank you
1:27:49	Trina C:	QUICK summary just went out the window
1:31:15	Daniel Taylor:	Could you say just a little bit about your metabouts?
1:31:20	Trina C:	what does reverse speech say about the soul
1:31:39	Ann R:	David, have you listened to alleged criminals on trial?
1:33:55	Petrut-Valentin L :	Can reverse speech also be used for books?
1:34:47	Margaret M :	can you perform this on yourself with accurate responses
1:36:29	Gail W:	Can you elaborate a bit on a criminal? Would it help the police?
1:37:35	R Warren H:	Has reverse speech be used in contract negotiations?
1:38:21	Trina C:	where is your research into 911
1:41:37	Maria P :	What about nuclear war - AI and new earth if you have examined the issues
1:42:23	Ann R:	Larry Silverstein
1:42:39	Gail W:	Larry Silverstein
1:42:41	Trina C:	Thanks for that.
1:44:26	David E :	Can reversals be done on animals and pets?
1:44:31	Trina C:	Bravo!!!!
1:47:01	Trina C:	I love him the plants!!
1:47:50	Trina C:	what is the whirlwind
1:48:18	Trina C:	thank you for hosting us
1:48:29	R Warren H:	What key metaphors do you think we should pay attention too? and thank you
1:49:05	Kim W :	Very Interesting!! Will be exploring your website. Thank you very much!
1:49:11	Gayle N :	Thank you!
1:49:22	Trina C:	I will be checking it out
1:49:24	Maria P :	Thank you

11-12-2022 USPA Masterclass #35 Dennis Stillings Presenting "The Archaeus Project" Chat

Time	Attendee	Comment
0:26:38	Dan T:	stillings@gmail.com
1:00:10	USPA	please ask your questions here
1:01:12	Dan T:	https://psi-encyclopedia.spr.ac.uk/sites/default/files/ebook/article/cassirer_manfred-784.pdf

1:01:36	Dan T:	https://survivalresearch.ca/NHRF/NHRF_occasional_papers/New_Horizons_Research_Foundation_paper_01.pdf
1:01:38	USPA	thank you daniel
1:06:04	Dan T:	https://impossiblearchives.rice.edu/
1:07:08	USPA	the Trickster and the paranormal by George Hansen
1:08:51	Dan T:	http://www.tricksterbook.com/
1:15:35	Dan T:	If you were involved with the leadership of groups like USPA now, knowing what you know, what would you consider the top priorities to be? (And by the way, thank you for your prior service too.)
1:21:32	Dan T:	https://www.spindriftresearch.org/
1:27:34	AK:	Book by Gary Renard The Disappearance of the Universe covers the Ego and spiritual things.
1:57:29	Nora R:	Thank you!
1:58:08	Dan T:	Thank you, Dennis and Scott!
1:58:15	Alan G:	Thank you Dennis and USPA.
1:58:22	Jack J.	Thank you
1:58:23	Pamela G:	Thank you!

Section VII – Come to the Website – Visit the Ever-changing USPA <u>Library</u>

The new USPA Library tab is the place to go for Newsletters, (new and old), donations of articles, PowerPoint presentations by our Masterclass Speakers, The Toby Grots Collection, pdf lists of audio and videos available in the store, and much more.

The Library Lion: John Reed

The backbone of this work is John Reed, USPA's Master Librarian. John is adding out of print, open copyright books to the library for anyone to download.

John is hoping a Publications Packrat like him will have what is missing. He is creating a digital library by scanning every out of print book, series of newsletters and magazine articles that he can lay his hands on relevant to psychotronics, radionics and sister fields. As his database grows, he will share updates via this newsletter and our website.

John NEEDS the following:

Missing Newsletters of USPA Chapters

If you have copies of any USPA chapter newsletters, please write to the USPA Librarian and Archivist, John Reed at: joreed43@gmail.com. If you have issues of chapter newsletters, but wish to keep them, please make a xerox copy, scan, and send it to John at the above email address. If you wish to have the physical copies preserved in the USPA Library, please let John know, so that shipping arrangements can be made. All shipping costs will be paid for by the USPA Librarian.

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Attention bounty hunters!

To help our librarian, John Reed in his quests for missing journals, newsletters, articles and manuals, a reward of one

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Section VIII - USPA Publications: Proceedings and Journals are Digitized and in USPA Shop!!

Quick Background of our Proceedings Evolution



Since its first meeting in 1975, hundreds of top scientists, educators and researchers have made presentations at USPAs annual conferences. They are from the leading edges of their fields, especially regarding the phenomena of Mind-Body connection, energy and emerging technologies. The first audio recordings were made in 1978.

Then, in 1985, USPA produced a perfect-bound Proceedings book for its tenth conference. The proceedings went through quite an evolution, much like our audio and video presentations. In 2010 they went through a "final" stage and the proceedings are now produced as pdf documents.

6 USPA Journals and 18 out of 19 Proceedings are now available for purchase.

The 6 USPA Journals and 18 of our 19 Annual Proceedings can be purchased in pdf format from our webstore at:

https://www.psychotronics.org/productcategory/uspa-publications-journalsproceedings/

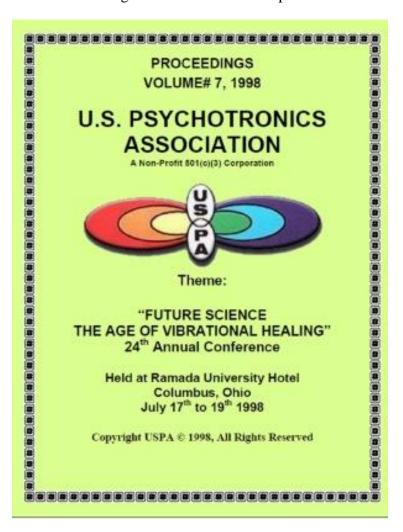
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You can download the Tables of contents for the Proceedings here: https://www.psychotronics.org/pub/pro/all-uspa-conference-proceedings-toc.pdf

and the table of contents for the Journals here

https://www.psychotronics.org/pub/j/sixjournals-tables-of-contents.pdf **Shop Here!**

Each month, the Newsletter will feature the table of contents of one of the USPA Conference proceedings.



This month: Featuring 1998 USPA Proceedings

1998 USPA Conference Proceedings Table 0f Contents:	
"Electromagnetism & Spontaneous Healing Of HIV"	
by Robert C. Beck	1
"Lightning"(the Pulse Of Life)"	
by Eldon Byrd	10
"The Legacy of Marcel Vogel"	
by Ronald Carson	22
"Creativity & Well-Being Enhancement By Using Computers and Pictures"	
by Robert Foulkrod	35
"Bio-Information and the Puzzle of Healing"	
by Dr. Richard Gerber	55
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by Dawn Stranges & Lutie Larsen	60
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"Holy Grid, Holy Grail"	
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Section IX "Members Only" Perk: Over 140 Presentations For *Free* Online Viewing.

One big advantage to being a member of USPA is the Members Only page of our website.

We have over 140 presentations FREE for viewing by USPA members. If you are not a member yet, you can 'fix' that in just a few minutes at https://www.psychotronics.org/join/. The full list is getting unwieldy, so from now on there will be an update list of total offerings and the latest additions.

THE USPA STORE		MEMBERS' ONLY AREA	
UPDATE			
Conference Videos	434	Masterclass Videos; Yes, We're on # 36, but	40
		we've had four 'double headers'	
Conference Audios	153	Classic USPA Videos 1980s	25
Masterclass Videos	34	USPA Conference Videos 1990s	22
Conference Proceedings	18	USPA Conference Videos 2000s	15
Conference Journals	6	Bonus Videos	10
Total Items in the store	646	USPA Conference Audio Recordings	27
		PowerPoints	5
		Monarch Butterfly Dowsing Kit	1
		Marina Kostina's Interview of Ed Kelly	1
		USPA Subtle Energy Workshop pdf	1
		Link to the Toby Grotz Collection	1
		PDF of Ellen Kamhi Masterclass	1
		Total Items in Member's Only	<mark>149</mark>

NOTE: If you are a member: Take a peek at the New Members Tab – So Easy to navigate now. MEMBERS ONLY (OR...Join now HERE JOINING USPA IS NOW EASIER TOO: All the Categories are now click through – Join online! Nothing to download, fill in or mail!)

Section X – USPA Membership Meeting Planned for January 2023!

The Board of Directors has planned a virtual membership meeting for January17th at 7:00 PM CST

As USPA has not been able to have an in-person conference for several years, The Board of Directors has planned a virtual membership meeting.

On the agenda will be:

- Reports for the last three years of USPA's work
- Success of the ongoing Masterclass Series
- Proposed changes in the bylaws
- Discussion of possibility of an in-person Conference in the future.

When the link is sent out, it will only be sent to folks whose membership is up to date. If you'd like to become a member, <u>CLICK HERE!</u> Currently, we have five options for membership! However, the option to become a lifetime member is only available until December 31, 2022. If you have any questions, please contact <u>Scott</u> or <u>Gail</u>. USPA welcomes your questions and suggestions.

Section XI - Editor's Feedback Nook:

PLEASE, Share the News with USPA.

Tell me if you - or any other scientist, inventor, creator, theorist or windmill chaser you know - has had any great breakthroughs, *even little breakthroughs*.

I want to know about lectures, honors, prizes, contest wins, trips taken or in the works.

Let me know of recent collaborations, new laboratories, restored laboratories, books or articles published. Tell me how a book changed your life. Write a few sentences about a great conference you attended. Here's the place where you can crow about your accomplishments or give praise for someone you think deserves the limelight. Email gailinvermont@outlook.com. Title your email "Good News."

Thanks to our **Growing** list of Masterclass Sponsors!

Masterclass Sponsored:	Our Sponsor:	Tier
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Dan Davidson – "Shape Power, Second Edition"	Don Paris and Ione Selke https://livingfromvision.com/	Free Energy Patron
John Allocca- "BrainicityTM Brain Biofield Enhancement"	Anonymous member of USPA and Darren Starwynn https://lightworkerministry.com/2022-2/	9-49 Patron ** 9-49 Patron
Dan Winter- "Plasma Vortex Physics of Consciousness and Negentropy"	Darren Starwynn https://lightworkerministry.com/2022-2/	9-49 Patron
Duncan Laurie- "Exploring The Potential of Radionics in Art & Music—Quantec's Discoveries in Germany and the Experiments at Dragonline Studios"	Brent of https://www.museumoftarot.com/ Ellen Kamhi – The Natural Nurse https://www.naturalnurse.com/	Free Energy Patron Pendulum Power Patron
E. Kelly, G. Kuepper, M. Lucas and D. Taylor- "A Radionic Round Table and Q & A"	Marty Lucas of https://radionics.us/ Ed Kelly of http://www.kellyresearchtech.com/	9-49 Patrons
Al Rohde and Al Kacperski: Personal Experiences with Preston Nichols and Guy Obolelnsky	Samm Simpson, Author of <i>Honoring My</i> Father and Mother http://thebp.site/222814	Wild Pendulum Patron
Ellen Kamhi: Pineal Stimulation for Higher Health and Consciousness	Richard Cerone, generous member of USPA	Wild Pendulum Patron
Jerry Gin Science, Subtle Energies and Spirituality: A Path to I AM	Linda Easthouse https://lindaeasthouse.com/	9-49 Patron
PMH Atwater: The Near-Death Experience	Celia Coates https://winnpost.org/ Janet Amare https://www.janetamare.com/	Free Energy Patron 9-49 Patron
Dennis Stilling – The Archaeus Project	John Anthony Allocca, D.Sc	Wild Pendulum
Dan Mangum – The Human Aspect of Radionics	Anonymous member of USPA	9-49 Patron

Section XII - The Basics

Editorial Office: USPA Newsletter, Gail E. Ruggles, 2088 Maple Ridge Road, Newark, VT 05871. Email <u>gailinvermont@outlook.com</u> Phone: 802-535-5173. After August 1, 2020, please address all newsletter inquiries to Gail.

For immediate assistance regarding other USPA issues, contact Scott Beutlich, the secretary / treasurer of USPA at uspsychotronics@gmail.com

Manuscript Submission: Submit all manuscripts as word documents by the 12th of each month to <u>gailinvermont@outlook.com</u> for review for possible publication in the next month's newsletter. The Board of Directors reviews all editorial decisions.

Enjoy unique information about radionics, psychotronics and other related topics at USPA's website at http://psychotronics.org . Find us on Facebook at: https://www.facebook.com/uspsychotronics/

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Let Them Wander!

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What is USPA?

The United States Psychotronics Association (USPA) is a federally recognized, nonprofit 501(c)(3) organization founded in 1975 to serve as a focal point for scientific and technical exploration of the universe of esoteric, spiritual, and psychic arts in the United States of America.

The USPA has been hosting annual conferences for its membership since its formation and has featured countless individuals with cutting-edge viewpoints, research, or theories to share, allowing any interested persons to openly discuss their work.

What is Psychotronics?

USPA 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." A true understanding of the universe must include the spiritual as well as the technical. USPA provides an opportunity for amateur researchers to present their findings along with the professionals. USPA stresses research, with documentation of results, and practical applications, rather than personal experience and unsupported hypotheses.

Section XIII - Our Donors

USPA Generous Donors Recognition Page

The USPA would like to give special recognition on a continuing basis to people who have made generous donations to the United States Psychotronics Association in past years.

This special "USPA Generous Donors Recognition Page" will be carried in each issue of the USPA Journal & Newsletter, and new names will be added as donations are received.

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To make a tax deductible donation to the United States Psychotronics Association (USPA) online: Please go to the <u>USPA Donations Page</u>

and use your credit card, debit card, or PayPal.

If you wish to make a donation by check, please make your check payable to USPA USPA Treasurer, Scott Beutlich,

525 Juanita Vista, Crystal Lake, IL 60014

~ With Our Continued Thanks! ~

Section XV Classified Ad Section -

Personal Ads: If you have any "psychotronic related items" to sell, (books, radionic machines, etc.) we charge 20 cents per word, 20.00 per half page with supplied artwork or photos or 35.00 per whole page. Your paid ad will run in the next three issues of the newsletter.

If you would like to publicize an event for a non-profit organization, USPA will advertise for you up to 750 words free. We ask for mutual links to our website from yours.

If you would like to publicize a for-profit event, or a business USPA charges reasonable ad rates. Link to the ad rates is posted on our Donate page of the website, or **CLICK HERE**

Please Note: USPA is not responsible for the content or condition of items sold from this newsletter by any private person or company, nor does it back any treatment, modality or veracity of presentation. It does not back any claim of medical efficacy of machines or treatments. USPA cannot recommend specific radionic practitioners, or offer radionic treatments from its board of directors or officers.

Section XV – J.G. Gallimore's Five Rare Books Are Now Available!

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.

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 original 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. All are: Available at Amazon.com

The Handbook of Unusual Energies:	ISBN-10:	The first book of	468
Volume 1 of Handbook of Unusual	1543024998	three volumes on	Pages
Energies	ISBN-13:	unusual energies	
	978-1543024999		

Gallimore discusses in depth the research, discoveries, and inventions of all the major researchers in subtle energies, the aether, biological 62 fields, pyramid energy, radiesthesia, radionics, crystal transduction, and related subjects.

These include the works of Baron Von Reichenbach's and his odic energy, Dr. Wilhelm Reich's orgone energy, Dr. Harold Burr's biological life fields, Kozyrev's time mirror, Edgar Cayce's transmission of energy, and related research done by many others.

Of particular importance is Gallimore's 127 page chapter on radionics. In this chapter he discusses in depth the research and devices of Ruth Drown, T. Galen Hieronymus, Rho Sigma, Dr. L. P. Corte and other prominent people in the radionics field.

Collected Properties &	ISBN-10:	The second book	258
Writings of J. G.	1543025048	of three volumes on	Pages
Gallimore: Volume 2	ISBN-13:	unusual energies	_
	978-1543025040		

This is the second book in the "Unusual Energies" series that J.G. Gallimore published. It covers Gallimore's research on Albert Abrams, the founder of modern radionics, psychological physics, psychic energy, thought resonance, subtle energies, crystals, and related subjects.

In addition, a number of radionics devices are discussed, such as the De La Warr Diagnostic Instrument. And very helpfully, the rates are provided for substances, body organs, and medical diseases and disorders. I very interesting interview of Christopher Bird, conducted by J.G. Gallimore is provided, as well as a discussion of Walter Russell and his research

Relationship Between	ISBN-10:	The third book of	228
Parapsychology and	1543024947	three volumes on	Pages
Gravity: Volume 3	ISBN-13:	unusual energies	
	978-1543024944		

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.

He discusses the various emanations, radiations, and energy fields of all matter and life including 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. He shows how all of these energies are 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	ISBN-10:	374
Science of Space, Time, and Gravity	1543024920	Pages
Control	ISBN-13:	
	978-1543024920	

This book covers the visionary research and theories developed by J.G. Gallimore about antigravity, 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:	ISBN-10:	134
Using Subjective Response to Psi-	1543024831	Pages
Plasma for Analysis of Properties	ISBN-13:	
Neutral Charge Plasma Fields	978-1543024838	

This book is about psychotronics, radionics, electromagnetic fields and waves, psi-plasma, plasma fields, subtle energies, bio-electromagnetic 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 Wilhelm 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.

