

Why We Want to Grow Healthy Plants: The Case of the Emerald Ash Borer

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Document Information

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Notes

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NOTE: This document was created using the rmarkdown package [<https://rmarkdown.rstudio.com/>] version 2.25 in R [<https://www.r-project.org/>] version 4.3.2 on the Trisquel [<https://trisquel.info/>] version 9.0 GNU/Linux [<https://www.gnu.org/gnu/why-gnu-linux.html>] distribution. You can find Irucka's contributions to the R Community at <https://gitlab.com/iembry> [GitLab projects] & <https://www.ecoccs.com/rtraining.html> {R Trainings and Resources provided by EcoC²S (Irucka Embry, EIT)}.

Useful Quotes

"[Dr. Julius] Hensel was the first to put up a fight against the then-growing new chemical fertilizer industry—a struggle that was continued in the next century by Sir William Howard in England and J. I. Rodale in America. The use of chemical fertilizers, claimed Hensel, leads to the following evil consequences:

"It poisons the soil, destroying beneficial soil bacteria, earthworms and humus*. [* Decayed vegetable or animal matter that provides nutrients for plants.]

"It creates unhealthy, unbalanced, mineral-deficient plants, lacking resistance to disease and insect pests, thus leading to the spraying menace in an effort to preserve these defective specimens.

"It leads to diseases among animals and men who feed on these abnormal plants and their products.

"It leads to a tremendous expense to the farmer, because chemical fertilizers, being extremely soluble, are quickly washed from the soil by rainfall and needs constant replacement. (Powdered rocks, on the other hand, being less soluble, are not so easily washed from the soil, but keep releasing minerals to it for many years)."

-“Introduction to *Bread From Stones*” by Dr. Raymond Bernard (A.B., M.N., Ph.D.), which appeared in *Suppressed Inventions & Other Discoveries: Revealing the World’s Greatest Secrets of Science and Medicine* by Jonathan Eisen. Garden City Park, New York: Avery Publishing Group, 1999. ISBN# 0-89529-809-0. Pages 229-230 [<https://www.nantahala-farm.com/Pdfs/Bread-from-Stones-by-Julius-Hensel.pdf>]

“Practical experience with Hensel’s Stone Meal and his non-animal method of soil regeneration, has proven the following:

“That Stone Meal creates healthier, tastier, more vitaminized and mineralized foods.

“That Stone Meal creates immunity to insect infestation, worms, fungi and plant diseases of all kinds.

“That Stone Meal improves the keeping and shipping quality of foods, so that they keep a long time, in contrast to the rapid deterioration of foods given abundant animal manure.

“That Stone Meal helps plants to resist drought and frost, enabling them to survive when those fed on manure and chemicals perish.

“That Stone Meal produces larger crops which are more profitable because the farmer is saved the expense of buying chemical fertilizers which are rapidly leached from the soil by rainfall, whereas Stone Meal, being less soluble, is gradually released during the course of years and remain in the soil, being the most economical of fertilizers.

“That foods raised with Stone Meal are better for human health and the prevention of disease than those grown with chemicals or animal manure.

“That use of Stone Meal, in place of chemical or animal fertilizers, helps to end the spraying menace (by removing the cause) is proven by the fact that plants and trees grown with Stone Meal are immune to pests and so require no spraying.”

-“Introduction to *Bread From Stones*” by Dr. Raymond Bernard (A.B., M.N., Ph.D.), which appeared in *Suppressed Inventions & Other Discoveries: Revealing the World’s Greatest Secrets of Science and Medicine* by Jonathan Eisen. Garden City Park, New York: Avery Publishing Group, 1999. ISBN# 0-89529-809-0. Pages 231-232 [<https://www.nantahala-farm.com/Pdfs/Bread-from-Stones-by-Julius-Hensel.pdf>]

“Have your garden as rich as possible. Your plants will then be more apt to overcome the attacks of insects and any other enemy which come upon them.”

-Dr. George W. Carver, *The Forage Crop*, Farmer’s Leaflet no. 9 (Tuskegee Institute, September 1902), TIA, 46, 487 [As quoted in United States (US) Department of the Interior (DOI) National Park Service (NPS) George Washington Carver National Monument: George Washington Carver: For His Time and Ours: Special History Study: Natural History Related to George Washington Carver National Monument Diamond, Missouri [<https://www.nps.gov/gwca/learn/management/upload/GWC-For-His-Time-Ours-Spec-History-Study.pdf>]

“Insect Attacks

“These can occur for similar reasons to diseases—either imbalances, deficiencies or both. Phil Callahan, an entomologist working for the USDA, documented many cases where insects are attracted to plants that give off energy in the infrared under stress. He found that insect antennae picked up infrared emissions from plants and homed in on these plants from considerable distances. Pesticides can kill the insects, but they don’t address why the insects show up.

“Usually insects attack plants that are low in energy, lack complexity and are easy to eat.”

—Hugh Lovel, *Quantum Agriculture: Biodynamics and Beyond: Growing Plentiful, Vital Food*. Quantum Agriculture Publishers, 2014. ISBN# 978-0-692-28026-3. Page 138.

... “From extensive tests by the USDA, it has been observed that plants with excess potassium and phosphorus [Nitrogen **Phosphorus Potassium** – NPK fertilizer] are more prone to aphid and mite attack, while pest numbers increase more rapidly on overfed plants.” [my insertion]

—Vaikunthanath Das Kaviraj, *Homeopathy for Farm and Garden: The Homeopathic Treatment of Plants: Plant and Soil Problems and Their Remedies*, page 178

Main Content

Greetings everyone, I hope that yall are doing well.

After receiving a notice from Metro Nashville Water about the Emerald Ash Borer yesterday (3 April 2023), I decided to search (yet again) for biodynamics and the Emerald Ash Borer & I came across the following very useful answer from an agrohomeopath (a homeopath focusing on agriculture – Plants and Non-Human Animals):

<https://hpathy.com/agrohomeopathy/the-plant-doctor-june-2018/>

Hpathy Ezine: The Plant Doctor – June 2018

Plant doctor suggests treatment for mile a minute weed – *Persicaria perfoliata*, White grubs, **Emerald Ash Borer** & Potato leafhopper, *Empoasca fabae*.

by Radko Tichavsky, June 16, 2018

As an aside note:

For those that don't know, Rudolf Steiner was influenced by the vibrational energy healing system popularized by Samuel Hahnemann (homeopathy). I say popularized because according to Richard Gerber, M.D., in *Vibrational Medicine: The #1 Handbook of Subtle-Energy Therapies* – acupuncture, homeopathy, and other forms of vibrational healing methodologies are much older than we have been led to believe. So Samuel is not the creator of homeopathy, but he resurrected it from its ancient past.

Based on Radko's thoughts on protecting the healthy Ash tree, I also searched for insects not attacking healthy plants (which I have seen Dr. Julius Hensel, Dr. George W. Carver, Sir Albert Howard, Hugh Lovel, Radko Tichavsky, and others write about) & one of the articles that I came across was:

<https://www.ecofarmingdaily.com/grow-crops/picky-eater-insects-pass-on-high-brix-plants/>

EcoFarmingDaily.com: Picky-Eater Insects Pass On High Brix Plants

By Thomas M. Dykstra, This article also appeared in the September 2019 issue of *Acres U.S.A.*

Thus, a key component in “pest” & “weed” management is to have healthy farm/garden ecosystems where Plants are not sending electromagnetic communication signals to Insects and/or to surrounding Plants that they are unhealthy and dying.

To accomplish the goal of creating healthy ecosystems, I am enclosing some useful links:

<https://hpathy.com/agrohomeopathy/the-plant-doctor-radko-tichavsky-march-2023/>

Hpathy Ezine: The Plant Doctor – Radko Tichavsky- March 2023

The Plant Doctor, Dr. Radko Tichavsky, answers questions each month. This month he addresses questions about **trans-planting**, rust on a Red Current bush, the Squash Vine Borer and more.

https://www.ecoccs.com/resources_links.html#biod_ag

EcoC²S [Irucka Embry): EcoC²S Online Resources: **Biodynamic & Homeodynamic Agriculture/Agro Homeopathy**

<https://wholehealthag.org/>

Whole Health Agriculture: We are a small not-for-profit providing information, education, and support to farmers seeking alternatives to synthetic chemicals, antibiotics, and artificial interventions.

https://www.ecoccs.com/resources_links.html#energy_plant

EcoC²S [Irucka Embry): EcoC²S Online Resources: **Energies and Plant Growth**

https://www.ecoccs.com/resources_links.html#orgonite

EcoC²S [Irucka Embry): EcoC²S Online Resources: **Use of Orgonite in Food Growing**

https://www.ecoccs.com/resources_links.html#soil

EcoC²S [Irucka Embry): EcoC²S Online Resources: **Soil Ecology & Composting**

https://www.ecoccs.com/resources_links.html#veg_dis-ease

EcoC²S [Irucka Embry): EcoC²S Online Resources: **Vegetation “Dis-ease” & Pest Management**

Thank you.

Irucka Embry, E.I.T. (Engineer-in-Training)

Enclosures

OAK 2023: More Food for Thought from the Sankofa: Rethinking Food Grower in the South Session quotes document that I created for the Organic Association of Kentucky (OAK) Conference in January 2023.

About the Author

Irucka Ajani Embry, M.E., E.I.T. is the Principal of EcoC²S (<https://www.ecoccs.com>) in Nashville, Tennessee. EcoC²S is a Nashville, Tennessee-based small business offering the following services: 1) Consulting in a variety of areas [General Consulting, Food Grower, Healthy Living Coach (Promoting Healthy Living through the Read the Labels Campaign), Free/Libre and Open Source Software (FLOSS) selection and installation as opposed to proprietary, closed-source, freedom-limiting software]; 2) Public Speaking; 3) Providing Data Analysis and Data Science Services via R & Offering R Trainings; and other services (<https://www.ecoccs.com/services.html>). Irucka has a Master of Engineering with a Concentration in Environmental Engineering from Tennessee State University (TSU) in Nashville and a Bachelor of Science in Civil Engineering with Minors in Environmental Engineering and Spanish from the University of Tennessee, Knoxville.

Irucka is a creative & multi-faceted person. He is a(n)

- former adjunct professor,
- author,
- book publisher (<https://www.questionuniverse.com/books.html>),
- AmeriPlan seller, business services advisor, financial professional, Melaleuca member referrer, real estate wholesaler, travel agent, etc. (https://www.ecoccs.com/other_biz.html),

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- event planner [https://www.ecoccs.com/events/ecoc2s_events.html],
- freedom advocate,
- herbalist (“lover and user of plants”),
- artisanal home chef & food forager,
- lay homeopath [<https://www.ecoccs.com/healing.html#homeo>] – saw a professional, classical homeopath from 1999 - 2009 who encouraged me to become a homeopath by first educating mySelf,
- performing and visual artist (creative writing – <https://www.questionuniverse.com/balancing-the-rift.html>, Hip Hop musician/songwriter – <https://www.vibrationkunvorted.com/>, and photography),
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- R data analyst / data scientist / developer / trainer [<https://www.ecoccs.com/rtraining.html>],
- researcher [<https://www.ecoccs.com/resources.html>],
- self-studier of (agro)homeopathy and biodynamics (https://www.ecoccs.com/resources_links.html#biod_ag),
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OAK 2023: More Food for Thought from the Sankofa: Rethinking Growing Food in the South Session

Irucka Embry

2023-11-06

2023 OAK (Organic Association of Kentucky) Conference – Sankofa: Rethinking Growing Food in the South Session

This handout was created by Irucka of Getting Back to Nature @ Martin Acres [<https://www.gettingback2nature.farm>] to be distributed during the Sankofa session at the OAK Conference.

Note

NOTE: This document was created using the rmarkdown package [<https://rmarkdown.rstudio.com/>] version 2.25 in R [<https://www.r-project.org/>] version 4.3.2 on the Trisquel [<https://trisquel.info/>] version 9.0 GNU/Linux [<https://www.gnu.org/gnu/why-gnu-linux.html>] distribution. You can find Irucka's contributions to the R Community at <https://gitlab.com/iembry> [GitLab projects] & <https://www.ecoccs.com/rtraining.html> {R Trainings and Resources provided by EcoC²S (Irucka Embry, EIT)}.

If you wish to view the R Markdown code that created this PDF document, visit https://www.ecoccs.com/Sankofa_Rethinking-Growing-Food-South_Useful-Quotes.Rmd

Controlled Burning Quote

“Europe's elites treated their own farmers and pastoralists and their knowledge of fire with the same disdain,” says [Stephen] Pyne. “Europe had thousands of years of agriculture and they used fire very widely, but it was a mark of ‘primitivism.’ To be modern and rational, you had to find an alternative to fire.”

–from Native Americans Used Fire to Protect and Cultivate Land: Indigenous people routinely burned land to drive prey, clear underbrush and provide pastures. By Dave Roos, Sep 18, 2020, HISTORY [<https://www.history.com/news/native-american-wildfires>]

The Microzyma and not Cells are the Beginning of Biological Life Quote

“The cellularists, it is but fair to recall, regarding the cellule as the simplest anatomical element, believed it proceeded necessarily from a former cellule, *omnis cellula e cellula*, holding it to be the *vital unit*, living *per se*, and regarded an entire organism as the sum of these units. But we now know that that was a deduction from incomplete and superficial observations, for the cellule, a transitory anatomical element, has the microzyma for its anatomical element. It is this which alone possesses all the characters of an anatomical element, *living per se*, and which must be regarded as the unit of life. It is what I have already stated in the following terms:

“*‘The microzyma is at the beginning and at the end of every living organization. It is the fundamental anatomical element whereby the cellules, the tissues, the organs, the whole, of an organism are constituted living.’*”

–Antoine Béchamp, *The Blood and its Third Anatomical Element* By Antoine Béchamp, 1912, Translated by Montague R. Lever-son, [WHALE Oct 2005] {http://www.whale.to/v/bechamp_b1.html}

Quote About Life, Dis-ease, Death, & Fermentation

“And, in conclusion, I beg the permission of the Academy to repeat here something which Professor Estor and I said in a recent work upon this subject:

“‘After death (leaving here the domain of pathology to enter into that of the physiology of the species), it is essential that matter be restored to its primitive condition, for it has only been lent for a time to the living organized being. In recent years an extravagant role has been assigned to the airborne germs; the air may bring them, it is true, but it is not necessary that it should do so.’

“The microzymas, whether in the state of bacteria or not, are sufficient to assure by putrefaction the circulation of matter.

“The living being, filled with microzymas, carries in itself the elements essential for life, disease, death and destruction. And that this variety in results may not too much surprise us, the processes are the same. Our cellules, it is a matter of constant observation, are being continually destroyed by means of a fermentation very analogous to that which follows death. Penetrating into the heart of these phenomena we might really say, were it not for the offensiveness of the expression, that we are constantly rotting!”

–Antoine Béchamp, *The Blood and its Third Anatomical Element* By Antoine Béchamp, 1912, Translated by Montague R. Lever-son, [WHALE Oct 2005] {http://www.whale.to/v/bechamp_b1.html}

Important Quote for Regenerative Agriculture Rather than death agriculture (non-biological agriculture)

“A deeply interesting tribute to his teaching by Lord Geddes may be found in a reprint of speeches in the House of Lords on February 2nd, 1944, on a motion standing in the name of Lord Teviot, asking whether the Royal Commission appointed to investigate the birth rate and trends of population would cover, in its terms of reference, the condition of the soil in relation to the health of man, animal and plant:

“Lord Portsmouth moved the motion in the absence through illness of Lord Teviot. Lord Glentanar and Lord Hankey supported the motion, as did Lord Geddes. Lord Geddes referred to the controversy regarding the food required and the use of chemical fertilizers. He said it goes back for nearly a century and has been made a very difficult controversy to follow by the dominance for so many years of the German school of biology.

“The German school — Virchow, Schwann, Liebig — laid the emphasis upon the cell out of which, in their millions, our bodies are created, and they regarded food for the cell as all that was required. Apart from that, and really obliterated and eclipsed by the German school, very likely as a result of the Franco-Prussian War and the prestige the Germans got through that war, there was a French school, of which Professor Béchamp was the leader, working at Montpellier in the 'fifties of last century. This school had a quite different idea about the structure of the body and the vitality and vigour of the body, and I think it was a great pity that, as a result of the Franco-Prussian War and various things that followed it in the 1870s, a great deal of the work of Professor Béchamp was entirely ignored and overlooked.’

“Lord Geddes then described the great contribution Professor Béchamp made, a contribution his lordship had been familiar with for over thirty years, to the whole idea of life, namely, that the cell is *not* the fundamental unit of life, but that there is a much smaller, more minute unit of life, which he called, in his later reports to the Academy of Science, the *microzymas*, but which in his earlier reports he always referred to as the ‘little bodies’.

“Lord Geddes showed how these little living bodies have the power of organising life, and he suggested that as they are not present in artificial chemical manures, the German school — which we have in this country largely followed in biology for many years — overlooked something of great importance; something which may be necessary for our human bodies, if they are to maintain their full vitality by receiving in their food a continuous supply of the little living bodies.

“Lord Geddes emphasised that there is a real divergence of opinion between two schools which have existed for a long time, one of which has become dominant and out of whose practice and beliefs the whole of the chemical industry has arisen and has been able to show results of the most remarkable kind in boosting production in the plant’s growth and those portions of the food that are required as fuels. But he suggested that the composters had got hold of the real source of vitality. The little bodies could be seen in drops of blood under a microscope, and during the course of that week he had examined a great many and had seen most extraordinary differences between people fed in different ways and in different states of health.

“He proposed that the research that was needed was investigation of the question: ***Is the supply of these little living bodies in the food essential to the continued vitality of human beings, or is it not?*** [my emphasis]

“He thought there was the possibility — many think the extreme probability — that the presence of these little living bodies in the food is essential to health.

“He went on to describe how these little bodies are found in the most antique remnants of life, and how they can start organisation in a sugar solution that is sterile and dead; and concluded by saying that the problem could best be answered with a combination of research by the Agricultural Research Council, and of observation carefully conducted and carefully checked by way of studies of groups of people fed on different diets.”

Homeopathic Cell / Tissue Salts / Biochemic Therapeutics

“The idea upon which Biochemic Therapeutics is based is the physiological fact that both the structure and vitality of the organs of the body are dependent upon certain necessary quantities and proper apportionment of its organic constituents. These remain after combustion of the tissues and form the ashes.

“The inorganic constituents are, in a very real sense, the material basis of the organs and tissues of the body, and are absolutely essential to their integrity of structure and functional activity. According to [Dr.] Schüssler’s theory, any disturbance in the molecular motion of these cell salts in living tissues, caused by a deficiency in the requisite amount, constitutes disease,* which can be rectified and the requisite equilibrium re-established by administering the same mineral salts in small quantities. This is supposed to be brought about by virtue of the operation of chemical affinity in the domain of histology; and hence this therapeutic procedure is styled by Schüssler the Biochemic method, and stress is laid on the fact that it is in supposed harmony with well-known facts and laws in physiological chemistry and allied sciences.

- “Recent experiments, made by Prof. Loeb, seem to prove that the various tissue cells will rapidly disintegrate in the absence of the proper proportion of sodium, potassium and lime salts in the circulating fluid, the normal ratio being 100 molecules of sodium, 2.2 molecules of potassium and 1.5 molecules of lime. Any marked departure from this proportion is followed by a more or less rapid degeneration of protoplasm.

“The maintenance of a stable metabolism within the cell is due to the presence of these salts in the proper ratio in the fluid, which surrounds the cell. It is thus a protective process. They maintain a sort of physiologic balance in the liquids surrounding the living cells and any upsetting of this proportional interrelation of the various salts may lead to physiologic disturbance and disease.”

–William Boericke, M.D. & W.A. Dewey, M.D., *The Twelve Tissue Remedies of Schüssler Comprising of the Theory, Therapeutic Application, Materia Medica & a Complete Repertory of Tissue Remedies (Homeopathically and Bio-Chemically Considered)*
By William Boericke, M.D. & W.A. Dewey, M.D., Sixth Edition, ISBN 978-81-319-0320-9, Page 15

The original 12 Tissue Remedies constituting Dr. Schüssler’s Biochemic method are the following inorganic salts:

- No 1 (1) Calcium fluoride (Calc Fluor)
- No 2 (2) Calcium phosphate (Calc Phos)
- No 3 (4) Iron phosphate (Ferrum Phos)
- No 4 (5) Potassium chloride (Kali Mur)
- No 5 (6) Potassium phosphate (Kali Phos)
- No 6 (7) Potassium sulphate (Kali Sulph)
- No 7 (8) Magnesium phosphate (Mag Phos)
- No 8 (9) Sodium chloride (Nat Mur)
- No 9 (10) Sodium phosphate (Nat Phos)
- No 10 (11) Sodium sulphate (Nat Sulph)
- No 11 (12) Silica (Silicea)
- No 12 (3) Calcium sulphate (Calc Sulph)

The additional 15 Tissue Remedies were contributed by Dr. Schüssler’s students and are the following salts:

- No 13 Potassium arsenite (Kali Ars)
- No 14 Potassium bromide (Kali Brom)
- No 15 Potassium iodide (Kali Iod)
- No 16 Lithium chloride (Lith Mur)
- No 17 Manganese sulfate (Mang Sulph)
- No 18 Calcium sulfide (Calc Sulf)

- No 19 Copper arsenite (Cuprum Ars)
- No 20 Alum (Kali Alum Sulph)
- No 21 Zinc chloride (Zinc Mur)
- No 22 Calcium carbonate (Calc Carb)
- No 23 Sodium bicarbonate (Nat Bicarb)
- No 24 Arsenic iodide (Ars Iod)
- No 25 Aurum chloride sodium (Aurum Mur Nat)
- No 26 Selenium (Selenium)
- No 27 Potassium dichromate (Kali Dichrom)

-from Schuessler Cell Salts - 27 tissue salts for your health, <https://schuessler-cell-salts.com/>

https://www.ecoccs.com/healing.html#tissue_salts

EcoC²S [Irucka Embry): Resources for a Healthier You (Resources to help us take responsibility back to heal ourselves and each other): **Cell Salts / Tissue Salts / Biochemic Salts**

<https://homeopathic.com/using-homeopathic-cell-salts-to-help-cells-function-especially-for-animals-by-judy-hoy/>

Homeopathic.com Homeopathic Educational Services: Using Homeopathic Cell Salts to Help Promote Faster Recovery From Harmful Health Problems in Animals

by Judy Hoy

<https://jacksonsnaturals.ca/blogs/news/cell-salts-for-plants-and-garden-part-one>

Jackson's Naturals: Cell Salts for Plants and Garden Part One

By Christy Zettl, May 27, '22

<https://jacksonsnaturals.ca/blogs/news/cell-salts-for-plants-and-garden-part-two-wet-west-coast>

Jackson's Naturals: Cell Salts for Plants and Garden Part Two: Wet (West) Coast

Jun 28, '22

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