

I wanted to share this information I found in a new book I just finished reading. The title says it all: Discoveries in Chiasmus—A Pattern in All Things. How accurate is all of the information? Couldn't tell you. But the overall message is a powerful one. There is pattern in all things. Hope you enjoy it.

First, an example of Chiasmus in the scriptures:

in earth ... and I Mosiah

(a) And now it shall come to pass, that whosoever shall not take upon him the NAME of Christ  
(b) must be CALLED by some other name;  
(c) therefore, he findeth himself on the LEFT HAND of God.  
(d) And I would that ye should REMEMBER also, that this is the NAME  
(e) that I said I should give unto you that never should be BLOTTED OUT,  
(f) except it be through TRANSGRESSION;  
(f') therefore, take heed that ye do not TRANSGRESS,  
(e') that the name be not BLOTTED OUT of your hearts.  
(d') I say unto you, I would that ye should REMEMBER to retain the NAME  
(c') written always in your hearts, that ye are not found on the LEFT HAND of God,  
(b') but that ye hear and know the voice by which ye shall be CALLED,  
(a') and also, the NAME by which he shall call you.

... and I ter b

*Mosiah 5:10-15  
One example of many)*

Some people have conjectured that chiasmus is only found in sacred writ. Some believe it is a learned skill to write chiastically. But just as Newtonian science has been replaced by quantum physics, belief that chiasmus is a learned skill has been replaced by a myriad of examples impressive enough to diffuse the argument formerly held by those scholars. Since powerful repetitious patterns can be identified in non-scriptural writings, the belief that a specialized training required to write this way has taken a back seat to understanding that a powerful unseen directive causes a person to write chiastically. Chiasm discoveries continue to be made, and more frequently by those considered to be the inquisitive everyday man (or woman).

Chiasmus is mapped out by a few to demonstrate an orderly pattern greater than just a mirror image. It defines a journey. It can be said that it is every man's journey. It is stated by more than one of the authors of this book to convey the Plan of Salvation.

Chiasmus can be identified in the sciences and the arts. It is easily observed in a multitude of places in the human body. It is audible to the most rudimentary music student. How could this be if it is only a Hebraic literary pattern? How can chiasmus be so rampant throughout literature, nature, and the scriptures with those restraints? The only answer would be that it would be a medium that would be in all things, and through all things. It would have to be something that conveys light.

The date chiasmus was discovered in the Book of Mormon can be exactly fixed. It was on Wednesday, August 16, 1967. We know this because the young missionary serving in Germany who made the discovery is still with us.

John Welch not only made the discovery of chiasmus in the Book of Mormon, but has also excelled in locating and elaborating on this finding. His effort to document the initial finding has been preserved in an article he wrote for the Journal of Book of Mormon Studies, titled *The Discovery of Chiasmus in the Book of Mormon: Forty Years Later*, Vol. 16, Issue 2, pages 74-78.

Of particular delight to me is the role which Brother Welch assigns to revelation in his discovery. As is so often the case with the voice of the Lord, it was early in the morning when a voice awoke Elder Welch with the words: "If it is evidence of Hebrew style in the Bible, it must be evidence of Hebrew style in the Book of Mormon." These words of revelation not only led to the discovery, but they affirm the relationship between the Bible and Book of Mormon as Nephi had promised. (See 2 Ne. 29: 7-14.)

The article is worth reading, and can be found on-line through the Maxwell Institute at BYU. It discusses Brother Welch's enthusiastic teaching, using this new discovery as a means to attract converts on his mission. His enthusiasm was met with varying degrees of success by the audiences. However, he persisted in his effort to locate additional chiasms in the Book of Mormon and the discovery of perhaps the best example is worth including here. He wrote: "I particularly remember being on the train when I noticed the chiastic structure of Alma 36—the entire chapter! It was an overwhelmingly exciting moment to watch the length and the detail of that text unfold, which turns out to be one of the very best instances of chiasmus anywhere in world literature. Gazing out of the train window and watching the Bavarian countryside roll by, I was transported by the skill and care of Alma as a writer. Amazed at the power of the chiastic form to focus the reader's attention on the central turning point of Alma's life, I thought how fortunate we are to have the Book of Mormon. I wondered where this train would take me." That chapter is now well known as the premiere example of chiasm in all scripture. Found by a young Elder while serving in Germany, riding a train.

Brother Welch's efforts have also expanded to provide guidance in detecting the presence of chiasmus. He wrote an article for the Journal of Book of Mormon Studies, titled: *Criteria For Identifying and Evaluating the Presence of Chiasmus*, found at Vol. 1, Issue 2, Pages 1-14. In the article he suggests there are fifteen criteria which ought to be considered when determining the presence of chiasmus. We had hoped Bro. Welch would join us to discuss these in this conference, but his schedule prevented him from doing so. This article is also important enough that I recommend you visit the full article on-line through BYU.

What do we make of these symbols? These imbedded messages seem to return to a theme. Whatever other meanings as may be contained in these forms, patterns and types, it necessarily includes the notion that to go forward you must go backward. Perhaps this meaning reigns supreme over all the other symbolic meanings of the pattern.

This pattern also reminds us anew of the Lord's injunction: "Except ye be converted, and become as little children, ye shall not enter into the kingdom of heaven." (Matt. 18: 3.) Returning to the mind of a child is necessary as a precondition, according to Christ's words, for us to be able to enter His kingdom.

This feature of the child's mind needs to be reclaimed. Hard though it may be, the opening up for yourself of the possibility you, too, may receive these things must come first. You will not receive until after you have been first proven. And you will not be up to the test if you are unwilling to believe it is possible for you to receive these things.

Perhaps, therefore, chiasmus is another testimony in pattern designed to remind us to remain open, remain humble, teachable, meek and submissive. It may be a reminder that in order to go forward, we must go back and become first as a little child.

Now, this book has been organized to examine different forms of patternism and how they reflect a higher intelligence and God's communication to us. All things testify of Him. We need to develop the eyes to see Him. It may very well be that we all once had that ability and now need to return to what we once were to reclaim that sight. The great chiasm of life itself may be a gift from above. Enjoy what follows, which is offered as the various writers' views and not an official pronouncement by anyone other than those who contribute. It is offered to you as a gift to you.

longer than a few verses. In this case, just as in Alma 36, the entire chapter is chiasmus. The format of chiasmus is so complex that its existence in the Book of Mormon has been a testimony to me that the Book of Mormon is not just a work of a fourteen year old nineteenth century farm boy. On this occasion, I had a powerful spiritual witness that the evidence within the Book of Mormon is so substantial that the external physical evidence of archeological ruins is almost irrelevant. I haven't lost my desire to see more ancient sites, but at that moment, I realized that it's not necessary to travel far and wide looking for "proof of the Book of Mormon" outside of the book itself. That is the significance of the presence of chiastic writing in the Book of Mormon.

A few weeks later, I researched the estimated construction dates for Tulum and found that archeologists think it had been built about 300 years after Captain Moroni's time. So my spiritual experience was validated: The presence of chiasmus in Alma 48 is more reliable evidence than ruins of an uncertain date. The presence of

At night, airports turn on landing lights to form a visual path that directs pilots to safely land their airplanes. When a chiastic diagram of any size is held up and turned a quarter turn to the left, the diagram forms an image that resembles airport landing lights. The longer the chiasmus, the more it looks like the landing light analogy, but instead of guiding pilots, each chiasm is a literary track that guides readers to a greater understanding of the Gospel of Jesus Christ. In the book of Ether, we see an excellent example of how chiasmus can bring our attention to a specific principle. When the Book of Mormon was published, this short

God. But can this be proved? In this regard, I have . . . .

[The Holy Ghost] must ever be the chief source of evidence for the truth of the Book of Mormon. All other evidence is secondary to this, the primary and infallible. No arrangement of evidence, however skillfully ordered; no argument, however adroitly made, can ever take [the] place [of the Holy Ghost].

However he continued:

Secondary evidences in support of truth, like secondary causes in natural phenomena, may be of first rate importance, and mighty factors in the achievement of God's purposes. [B. H. Roberts, *New Witnesses for God*, vol. 2 (Salt Lake City: Deseret News, 1909), pp. vivii]

Though it may be secondary evidence, chiasmus has a beauty and power in itself. So much so that the study of chiasmus leads us to the inescapable conclusion that the scriptures have more depth and breadth than any of us have imaged. As we humbly supplicate for Divine inspiration, we will come to see there is a distinct pattern in the way the Lord speaks to his children. I believe that chiasmus is part of that pattern.

Chiasmus is about finding orderliness in a universe of chaos. Chiasmus is about finding balance. Chiasmus is about seeing what others see, but thinking what few others think. Chiasmus is about a lot of things, but the central truth of the matter is that it is a tool that helps us see. When we can see a central concept within a balanced literary presentation, we learn to more fully appreciate things that we might not have noticed before. Finding the center of chiastic writing is a metaphor for finding the center of our selves. When we find our true center, that which should be the central focus of our lives, we will discover that it is, and always will be, our Savior, even Jesus Christ.

[I would add here a couple thoughts: Joseph Smith suggested that when God speaks to us, he does so in the abstract. This, to me, means more often than not when God speaks to us he is sending us pictures—spiritual images, if you will—rather than a mathematical formula. Commenting on his movie Crouching Tiger, Hidden Dragon, Director Ang Lee suggested viewers need not have intimate knowledge of ancient Chinese symbolism to know and appreciate—to ‘get’—Crouching Tiger, Hidden Dragon. They need only engage, and let the images, words—yes, the symbolism—flow. Let it work on you and speak to you. Not that having the ideas of the existence of symbolism is a bad thing. Or an idea of what the symbols suggest. It is just that the form speaks to a person whether they are a beginner — or an expert. Similarly, I would suggest that chiasmus speaks to the reader or hearer, whether they have an awareness of it or not. In other words, those without specific, concrete intellectual knowledge of the pattern are not without benefit. However, of course, the more awareness, ‘so much the advantage’ in understanding.]

The divine message of this literary structure is summarized with the name “Davidic.” *First*, in every dispensation, the Lord has given keys of knowledge, power and revelations to prophets, i.e., messianic servants. All of these prophets serve as a type of Jesus Christ, who was called the Son of David. *Also*, the word David means “beloved” and the name gives reverence to Jesus Christ, who is the exemplar Davidic servant. *Finally*, the name itself implies that all of God’s children have it within themselves the regenerative powers to become like Christ. Joseph Campbell wrote, “The cosmogonic cycle is presented with astonishing consistency in the sacred writings of all the continents, and it gives to the adventure of the hero a new and interesting turn; for now it appears that the perilous journey was a labor not of attainment but of re-attainment, not discovery but re-discovery. The godly powers sought and dangerously won are revealed to have been within the heart of the hero all the time. He is ‘the king’s son’ who has come to know who he is and therewith has entered into the exercise of his proper power – ‘God’s son,’ who has learned to know how much that title means. From this point of view the hero is symbolical of that divine creative and redemptive image which is hidden within us all, only waiting to be known and rendered into life.” (*The Hero with a Thousand Faces*, p. 39).

Either way, as has been stated, the Davidic Pattern—if it obtains—provides (for any particular literary structure in question) its own built-in Table of Contents, Glossary, and Commentary. And more. This, because an aware, informed reader can look for (and even hear) connections between one section of a given piece, to another. And understanding each individual element informs and enhances both.

### On Non-LDS Examples of the Pattern

An interesting and not widely-known 1978 Statement of the First Presidency (God's Love for All Mankind, 15 February 1978) has been cited by James E. Faust in the Ensign at least 4-5 times since 1980. The second paragraph reads:

*"The great religious leaders of the world such as Mohammed, Confucius, and the Reformers, as well as philosophers including Socrates, Plato, and others, received a portion of God's light. Moral truths were given to them by God to enlighten whole nations and to bring a higher level of understanding to individuals."* (First Presidency Statement: God's Love for All Mankind, 15 February 1978)

I appreciate in this statement the generous, open spirit in acknowledging and approving the "great religious leaders of the world" (of other faiths), "as well as philosophers," who the First Presidency declared "received a portion of God's light." And further, that "Moral truths were given to them by God to enlighten whole nations and to bring a higher level of understanding to individuals."

President Howard W. Hunter's also spoke in October 1991 General Conference ("The Gospel— A Global Faith") quoting Elder Orson F. Whitney:

*"Providence is over all. . . He holds the nations in the hollow of his hand; He is using not only his covenant people, but other peoples as well, to consummate a work, stupendous, magnificent, and altogether too arduous for this little handful of Saints to accomplish by and of themselves...."*

*"All down the ages men bearing the authority of the Holy Priesthood — patriarchs, prophets, apostles and others, have officiated in the name of the Lord, doing the things that he required of them; and outside the pale of their activities other good and great men, not bearing the Priesthood, but possessing profundity of thought, great wisdom, and a desire to uplift their fellows, have been sent by the Almighty into many nations, to give them, not the fullness of the Gospel, but that portion of truth that they were able to receive and wisely use."* (Conference Report, April 1921, p.32-33)

It should come as no surprise then that, if the Davidic Pattern obtains, we should expect to discover it in the writings of both David and Martin Luther King, Jr., both Alma and Abraham Lincoln, both Joseph Smith and Thomas Jefferson.

We will never really understand the paradoxical essence of the scriptures until we understand how the original prophetic writers shaped it. Until then, these scriptures will remain largely beyond us. But once we learn the pattern of God's words, and the laws and principles by which they are governed, we begin to approach the scriptures with renewed reverence and respect. We then will begin to know for ourselves, and "not then be dependent on man for knowledge of God; nor will there be any room for speculation" (TPJS p. 11-12). Only then, we will be able to sing the song of salvation with the heavenly choirs.

The Book of Mormon teaches the absolute importance of this little pinprick and blink of an eye as the center and pivot point of our eternity. Because mortality is so short in the expanse of eternity, no one can afford to let a moment pass by without recognizing just what mortality is for and treasuring every minute of it.

And the days of the children of men were prolonged, according to the will of God, that they might repent while in the flesh; wherefore, their state became a state of probation, and their time was lengthened according to the commandments which the Lord God gave unto the children of men. For he gave commandment that all men must repent; for he showed unto all men that they were lost, because of the transgression of their parents (2 Nephi 2:21).

True, eternity hinges on the blink of an eye that we call mortality, but that tiny moment in the expanse of eternity is sufficient for us to do our part to fulfill the great plan that our Father in Heaven has laid out for us. And there isn't a minute to spare.

From this revelation, we see that everyone's eternity depends on mortality, even those whose mortal lives were not extended in either time or space enough to allow them to receive the covenants and ordinances of the gospel. The point is, it is mortality where "their works" and "the desire of their hearts" are born and grow and written in the book of life.

Now consider the primary languages of these Old and New Testaments. The Old Testament comes to us primarily from Hebrew, which reads from right to left, or from east to west if we orient ourselves to the north. The New Testament comes to us primarily through Greek, which reads from left to right, from west to east. As a different kind of chiasmus, it looks like this:

**OLD TESTAMENT - HEBREW**  
**THE SAVIOR'S COMING**  
**NEW TESTAMENT – GREEK**

The turning point was The Atonement; its central focus was the cross. Remember, chiasm means cross. This real chiasm truly turned upon a cross! In reality, Christ's atoning work stretched from the Last Supper through the Resurrection. Because there are so many subtle, powerful meanings to the atonement, we must show its power through several sub-portions. Nevertheless, they are all part of one vital Chiastic Center.

I love the simple and direct words of God:

*And now, behold, I say unto you: This is the plan of salvation unto all men, through the blood of mine Only Begotten, who shall come in the meridian of time. And behold, all things have their likeness, and all things are created and made to bear record of me, both things which are temporal, and things which are spiritual; things which are in the heavens above, and things which are on the earth, and things which are in the earth, and things which are under the earth, both above and beneath: all things bear record of me.<sup>2</sup>*

The chiasm is a pattern as well as a symbol, and it also tells a story. It tells the same glorious story over and over again. Not only is it a symbol in the form of an X, but it (the story in the chiastic pattern) encompasses all the geometric figures as symbols in a progressive pattern, both linguistically, numerically, and physically. They tell the glorious story and promise of the *Plan of Happiness*. It is simple enough for a child to understand, yet deep enough to plummet any earnest seeker into a spiritual case of the bends. Those desirous to comprehend the ways of God can learn the language of chiasmus and begin to identify the Master's clear and glorious signature, as everything truly testifies of Christ.

Once I knew how to... wonder, 'Why do people write chiastically?' Why does an ~~artist~~ or a musician? Could it be that there is more to chiastic patterns than we have given credence? Could it be that chiasms are in and through every fiber of our being, testifying of a plan that has been imprinted on us or in us from before the beginning of time as we know it? Could it be that a chiastic pattern is the mark of the light of Christ, which is in all things?

When I found the magnificent chiasmus in the Articles of Faith<sup>4</sup>, I was certain I was the only person living on the earth that knew about it. It entirely changed my view of Joseph Smith, and certainly altered my opinion of the criticism and comments made by many since it was written in 1841.

I started talking about my discovery to anyone who would listen. I had a conversation with Robert Fillerup, who really burst my bubble when he told me that lots of people write in a chiastic form. Being an attorney, he wrote his papers and briefs chiastically, and delivered his arguments in a chiastic outline. And here I thought that everything about chiasmus was pretty much relegated to holy writ!

I figuratively pulled over to the side of the road to ponder his words. My thoughts were, "If all kinds of people were writing chiastically, and not all of them are prophets, then what was the constant in every man that would allow them to write in this pattern?"

After I identified the progressive orderly pattern that is identified in the Articles of Faith, I found it through all generations of scripture, time, and peoples. It is constant in the 10 commandments, the Beatitudes, the Davidic Chiasmus<sup>5</sup>, and other great works.<sup>6</sup> It has a beginning, a middle, and an end. It has the necessary male/female component. Because of the simple criteria of the rhythm of life, it is easily identified in the music of Bach.<sup>7</sup> It is found in the atom.<sup>8</sup> It finds expression throughout millennia of art and architecture. It can clearly be seen in DNA. It continually manifests itself because it is literally ingrained in all creation and bespeaks of the promises of eternity. The center point constantly illustrates connection with light and testifies of Christ.<sup>9</sup> It is the same Gospel plan that was set forth from the beginning.

Logic and reason dictated to me that since we were Gods in embryo, children of our Heavenly Father everything in our bodies would testify of this inheritance in a chiastic pattern, even our spiritual DNA which is *the* constant within all of us. I made it my mission to prove my hypothesis.

More X's

I doubt very seriously when Rosalind Franklin discovered the diffraction image of DNA, she would have connected it to a Chiastic pattern. But it is obvious that there is a perfect physical pattern of a chiasma right smack in the middle of DNA.



Figure 2. X-Ray diffraction image of DNA, discovered by Rosalind Franklin.<sup>19</sup>

Here was another beautiful chiasm called the optic chiasm. Light enters through the eyes and follows the optic path to meet at the suprachiasmatic nuclei.

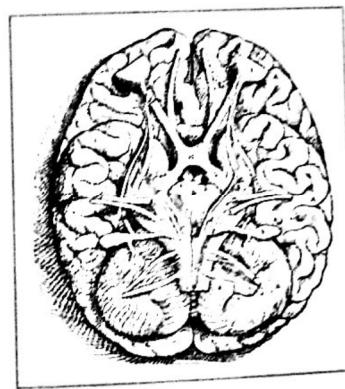


Figure 3. Woodcut from the *Fabrica* (1555) by Vesalius. Optic Chiasm visible.  
From Polyak (1957).

• leaves in earth

### **Light and response of DNA, being called of God.**

At a genetic level, sound gives rise to light. Fritz Albert Popp's Nobel prize-winning research establishes that every cell in the body receives, stores and emits coherent light in the form of biophotons. In tandem with biophotons, biophotons maintain electromagnetic frequency patterns in all living organisms. In the words of Dr. Stephen Lindstedt, this matrix that is produced and sustained by frequency oscillations "provides the energetic switchboarding behind every cellular function, including DNA/RNA messenger. Cell membranes scan and convert signals into electromagnetic events as proteins in the cell's bi-layer change shape to vibrations of specific resonant frequencies." Emphasizing that every "biochemical reaction is preceded by an electromagnetic signal," Lindstedt concludes, "Cells communicate both electromagnetically and chemically and create biochemical pathways that interconnect all functions of the body."

Russian scientists Peter Gariaev and Vladimir Poponin have also explored DNA's extraordinary electromagnetic properties. Their research shows that DNA has a special ability to attract photons, causing the latter to spiral along the helix-shaped DNA molecule instead of proceeding along a linear path. In other words, DNA has the amazing ability—unlike any other molecule known to exist—to bend or weave light around itself.

In addition, it appears that a previously undetected form of intelligent light or intention energy (emanating from higher dimensions and distinguishable from both gravity and electromagnetic radiation) which Dr. Eli Cartan first termed "torsion" in 1913 after its twisting movement through the fabric of space-time, gives rise to DNA.

Drawing on meticulously documented research, Harvard-trained Leonard Horowitz expertly demonstrated that DNA emits and receives both phonons and photons, or electromagnetic waves of sound and light. In the 1990s, according to Dr. Horowitz, "three Nobel laureates in medicine advanced research that revealed the primary function of DNA lies not in protein synthesis ... but in the realm of bioacoustic and bioelectric signaling."<sup>50</sup>

Research strongly suggests that human DNA is literally a genetic "text"; that chromosomes both produce and receive the information contained in these texts in order to encode and decode them, respectively; and that chromosomes assemble themselves into a holographic grating or lattice designed to generate and interpret highly stable spiral standing waves of sound and light that direct all biological functions.<sup>51</sup>

They found that the alkalines<sup>52</sup> of our DNA follow regular grammar and do have set rules just like our languages. So human languages did not appear coincidentally but are a reflection of our inherent DNA.<sup>53</sup>

Scientists have managed to modulate certain frequency patterns onto a laser ray and with it influenced the DNA frequency and thus the genetic information itself. Since the basic structure of DNA-alkaline pairs and of language are of the same structure, no DNA decoding is necessary. One can simply use words and sentences of the human language!<sup>54</sup>

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<sup>50</sup> Ibid.

<sup>51</sup> Ibid.

<sup>52</sup> See D&C 89:10-11 And again, verily I say unto you, all wholesome herbs God hath ordained for the constitution, nature, and use of man— Every herb in the season thereof, and every fruit in the season thereof, all these to be used with prudence and thanksgiving. These food substances are high in alkaline based foods, or foods which literally become little time-released capsules of light. Other foods to be eaten sparingly are acid based.

<sup>53</sup> Brazyna Fosar and Franz Bludorf, DNA Can be influenced and Reprogrammed by Words and Frequencies, <http://www.soulsofdistortion.nl/dna1.html>, 2010

<sup>54</sup> DNA can be influenced and reprogrammed by words and frequencies, <http://www.soulsofdistortion.nl/dna1.html>, 2010.

*Chiasmus and the Covenant in the Human Body*

It was apparent that Light was calling, and not only calling, but DNA was responding. This information on DNA and light became proof positive that all things not only testify of Christ, but respond accordingly to the author, just as we respond to the Light of the Gospel.

### *# Reaching up to the most high*

#### *The Dedicated Servant like the Bee*

Scientists are reporting evidence that intact double-stranded DNA has the "amazing" ability to recognize similarities in other DNA strands from a distance. Somehow they are able to identify one another, and the tiny bits of genetic material tend to congregate with similar DNA.<sup>55</sup>

#### *How cells "talk" to each other*

DNA uses frequencies of every variety as an information tool, this suggests instead a feedback system of perfect communication through waves that encode and transfer information.

When you get a cut or scratch on your skin, the cells that are injured somehow signal the surrounding healthy cells to begin reproducing copies of themselves to fill in and mend the opening, like a fractal. When the skin is back to normal, a signal is sent to the cells to tell them to stop reproducing. Scientists have wondered exactly how this works.

Popp chose to work specifically with UV light because of the experiments of a Russian biologist named Alexander Gurwitsch who, while working with onions in 1923, discovered that roots could stimulate a neighboring plant's roots if the two adjacent plants were in quartz glass pots but not if they were in silicon glass pots. The only difference being that the silicon filtered UV wavelengths of light while the quartz did not. (A quartz is a hexagonal shape, the same shape the bees naturally construct in a bee hive.)

With biophoton emissions, Popp believed he had an answer to this question. This phenomenon of coordination and communication could only occur in a holistic system with one central orchestrator. Popp showed in his experiments that these weak light emissions were sufficient to orchestrate the body's repairs. The emissions had to be low intensity because these communications took place on a very small, intracellular, quantum level. Higher intensities would have an effect only in the world of the large and would create too much "noise" to be effective.

*Note Language of Alma 19:6*

The number of photons emitted seemed to be linked to the organism's position on the evolutionary scale — the more complex the organism, the fewer photons were emitted. Rudimentary animals and plants tended to emit 100 photons/cm<sup>2</sup>/sec at a wavelength of 200-800 nm, corresponding to a very-high-frequency EM wave well within the visible range, whereas humans emit only 10 photons/cm<sup>2</sup>/sec at the same frequency. Here is the number 10 and the CHI in an interesting place.

I could not look at these similarities to healing and communication without being reminded of bees and their respective work in the hives. Bees do communicate in the very same way; on a very small, intracellular, quantum level. The six-sided containers innately designed in a perfect size to accomplish the work of the hive and the quartz. The quartz is six sided, which allowed the communication of UV light between the cells. Also because they are able to identify one another, which bees do in their hive, protecting it from any intruders, they serve to nourish the hive, feed the larvae, and help in the development of new life, and in this case, new DNA.

*... habent*

This is a phenomenon called 'photorepair', and it means that there must be some kind of light in the body responsible for photorepair, or communication and repair in the cell.

To appropriately demonstrate the role of servant in DNA, I will draw a parallel between the effort of the bees and the change in the DNA.

Joseph Smith had a very good understanding of bees. Utah was originally going to be named Deseret, which meant 'Honey Bee.' The product of the bees is the most perfect food on the earth. The Jaredites ate this food while on their journey across the waters in the barges.<sup>56</sup> Lehi and his company carried bees with them to the promised land.<sup>57</sup> There is an obvious message that we must needs have the properties of honey to make this earthly journey with success and health. Our entire physical structure is made of hexagonal shapes, from our bones, to our muscle tissue and everything inbetween. The substance of honey, being in a liquid, but hexagonal nevertheless, would provide the human body with the necessary support because the hexagon is the most sound structural shape anywhere. It is through association and ingestion we benefit from the dedicated service of the bee. We would do well to examine them closer, but for the time being I would like to show how bees are very similar to the incredible tasks performed by our DNA to respond, assist, protect, heal, and elevate.

The parallel of the covenant servant position with those workers in the beehive will serve as a thorough explanation. You could certainly say that bees are covenant workers of the hive. They move in a pattern that is chiastic, as certainly the waggle dance is in the figure 8, which communicates all that is needed to give information of flowers, movement, and danger. They wear their lives out in the service of the hive.<sup>58</sup> Everything the bee does is for the benefit of the hive. All the product the bees deliver, propolis used to protect the hive, royal jelly for the queen so that she can continue in the reproduction and life of the hive, the honey for the life of the bees, the wax for their housing; all this is turned into the good of the hive. Sugars, particularly natural sugars are critical for cell to cell communication as performed by glyconutrients, for without these substances, the body falls into a state of disease.<sup>59</sup>

Light in the DNA does this same kind of labor in behalf of the body, as well as the maintenance for the future of mankind, always maintaining, feeding, protecting, governing, and reproducing.

### Some very interesting things about DNA

In a 1993 study reported in the journal *Advances*, the Army performed experiments to determine precisely whether the emotion/DNA connection continues following a separation, and if so, at what distances? The researchers started by collecting a swab of tissue and DNA from the inside of a volunteer's mouth. This sample was isolated and taken to another room in the same building, where they began to investigate a phenomenon that modern science says shouldn't exist. In a specially designed chamber, the DNA was measured electrically to see if it responded to the emotions of the person it came from, the donor who was in another room several hundred feet away.

In his room, the subject was shown a series of video images designed to create genuine states of emotion inside of his body. The idea was for the donor to experience a spectrum of real emotions within a brief period of time. While he was doing so, in another room his DNA was measured for its response.

When the donor experienced emotional "peaks" and "dips," his cells and DNA showed a powerful electrical response at the same instant in time. Although distances measured in hundreds of feet separated the donor and the samples, the DNA acted as if it was still physically connected to his body.

The Army stopped their experiments with the donor and his DNA when they were still in the same building, separated by distances of only hundreds of feet. Following those initial studies, however, Dr. Backster and his team had continued the investigations at even great distances. At one point, a span of 350 miles separated the donor and his cells.

The time between the donor's experience and the cell's response was gauged by an atomic clock located in Colorado. In each experiment, the interval measured between the emotion and the cell's response was zero—*the effect was simultaneous*.

The experiment showed 4 things:

1. A previously unrecognized form of energy exists between living tissues.
2. Cells and DNA communicate through this field of energy
3. Human emotion has a direct influence on living DNA.
4. Distance appears to be of no consequence with regard to the effect.<sup>60</sup>

"Veljkovic and Cosic proposed that molecular interactions are electrical in nature, and they take place over distances that are large compared with the size of molecules. Cosic later introduced the idea of dynamic electromagnetic field interactions, that molecules recognize their particular targets and vice versa by electromagnetic resonance. In other words, the molecules send out specific frequencies of electromagnetic waves which not only enable them to 'see' and 'hear' each other, as both photon and phonon modes exist for electromagnetic waves, but also to influence each other at a distance and become ineluctably drawn to each other if vibrating out of phase (in a complementary way)."

All growing matter responds to light. DNA is no exception. The existence of internal photons—internal light—is the basis of virtually all cellular and systemic function, *for all living forms*.<sup>61</sup>

DNA is not only responsible for the construction of our body but also serves as data storage and communication. The Russian linguists found that the genetic code, especially in the apparently useless 90%, follows the same rules as all our human languages. To this end they compared the rules of syntax (the way in which words are put together to form phrases and sentences), semantics (the study of meaning in language forms) and the basic rules of grammar.

One revolutionary corollary of this research is that to activate DNA and stimulate healing on the cellular level, one can simply use words.<sup>62</sup>

What does all this information on DNA have to do with Chiasmus? The power of reading the Holy Scriptures, listening to the voice of the prophets<sup>63</sup>, mighty prayer, and singing of the hymns all have a powerful effect upon us. It can have such a profound effect upon us, not only spiritually, but physically. Through these mediums we are called to God. Our very DNA responds to the word. No wonder John tells us that in the beginning was the Word. We responded to it then, and we respond to it now. Our DNA is still responsive! light at great distances, whether it be our deceased ancestors from us, our children away from us, or our distance from God; all are affected by the Light of Christ and can change according to more light.

Brain decussation is a phenomenon in which the nerve fibers found in one lateral portion of the organ cross another. The status known as pyramidal decussation has to do with the passage of motor fibers from the brain

#### *Discoveries in Chiasmus*

to medulla spinalis and medulla oblongata. The fibers tend to leave the brain in bunches or bundles and cross in the anterior median fissure area of the medulla oblongata.<sup>70</sup>

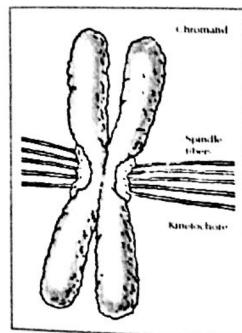
Nerve decussation is a term that often refers to the crossing fibers within one eye.

I thought I would spend some time studying the optic chiasm and all its component parts with a main focus on the diverging point. I discovered a very beautiful example of this crossing point is shown in the optic chiasm. As Traquair stated...all vision takes place in the form of a pyramid.<sup>71</sup> Light travels in a pyramid fashion through another pyramid structure until it connects together at the optic chiasm. This light is responsible for stimulating a myriad of organs responsible for the movement of man throughout his life.

Originating in different places, the optic nerves unite with each other but afterward diverge from each other again...for nature has not interchanged them...the shape of these nerves is very much like the letter chi. If anyone should dissect them rather carelessly, he would perhaps believe that they interchanged...but this is not true; for when they met within the cranium, they united their courses and then again separate, indicating clearly that they came together for no other reason than they might unite their courses...<sup>72</sup>

In the DNA chromosome, the center point is called the centromere. Specific proteins bind to centromeric DNA, forming the kinetochore, which is the site of spindle fiber attachment. The kinetochore is a large multiprotein complex that can be seen in the electron microscope as a platelike multilaminar structure. The center point is not just a passive anchorage site for microtubules: it plays a central role in controlling the assembly and disassembly of the kinetochore microtubules, generating tension in them and, ultimately, driving chromosome movement.<sup>73</sup>

And what does this have to do with binding? It is always about replication, multiplying and replenishing.



**Figure 12 Binding site of centromere with spindle fibers<sup>74</sup>**

Now that we have focused on the center point for an extended time, the journey moves onward for the remainder of the story. Look at the chiastic structure in the DNA

### Inversion or a new situation

Palindromes occur in DNA. There are two types.

1. Palindromes that occur on opposite strands of the same section of DNA helix.

5' GGCC 3'

3' CCGG 5'

2. Inverted Repeats, is a sequence of nucleotides that is the reversed compliment of another sequence further downstream.

In these cases, two different segments of the double helix read the same but in opposite directions.

5' AGAACAnnnTGTTCCT 3'

3' TCTTGTnnnACAAGA 5'

Inverted repeats at either end of retroviral gene sequences aid in inserting the DNA copy into the DNA of the host and duplicated genes.<sup>100</sup>

### The Kingly Line

This might seem like a bit of a diversion, but it is actually quite illuminating. It is established that Israel is a name for a covenant, chosen people. Chosen for their righteousness, and blessed according to that same level of righteousness.

The names Rey, or Reyes, Raj or Maharajah, all stand for a *great king*. The names Rex, Re or Ra all denote kingship. There is not time to go into all the history of these names, but it is apparent that it wasn't the Egyptians that had the corner on this market, but that it has an even greater significance as we see how it appears in the names of 'The Fathers'.

Abraham & Sarah

Isaac and Rebekah

Jacob (Israel) and Rachel

Joseph & Asanath

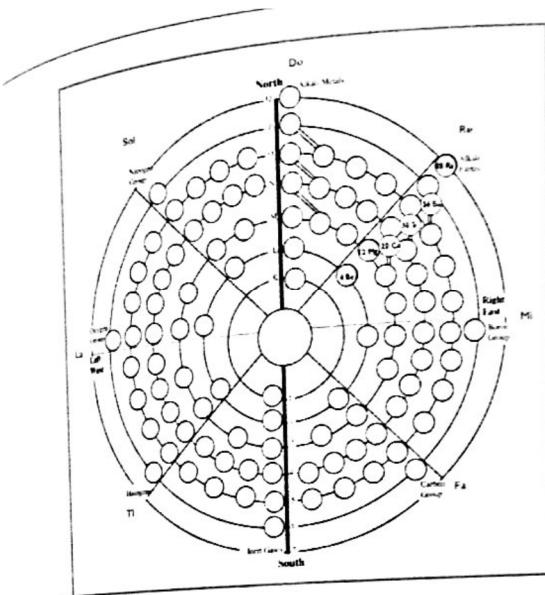
Manasseh and Ephraim

You can see that in each of the Three Fathers, Abraham, Isaac, and Jacob, there is a chiasm in their names. Earlier in this chapter there was mention a decussation or Jacob's Cross, with their arms, like that on the head of Ephraim and Manasseh, and this decsis is also graphically described between them.<sup>106</sup>

After the blessing of Ephraim and Manasseh, when Jacob blesses his grandsons, these two sons come into the birthright position, and Ephraim takes the head, with the RE in his name.

As long as we are going to look through the human body, let us take a look at the circular periodic table, which represents the elements. The human body is made out of only minerals and water, so looking at the elements will tell us some very interesting things about chiasmus.

Here is the periodic table, laid out in a circular fashion. It is much easier to identify the chiastic elements, as they all align themselves on the second ray, or Alkaline elements. Remember that alkali is light.



4 Beryllium	2-2
12 Magnesium	2-8-2
20 Calcium	2-8-8-2
38 Strontium	2-8-18-8-2
56 Barium	2-8-18-18-8-2
88 Radium	2-8-18-32-18-8-2

Figure 16. Circular Periodic table<sup>107</sup>

The Re, or second Alkaline earth ray, contains the elements that are chiastic, all running in a direct line. When the body is in a high state of alkalinity, it will conduct light. Each of these elements appears next to the superconducting metal, i.e., copper, silver and gold. These are the metals used to build the sacred temples. Most people would have presumed that these metals were strictly for ornamentation, but it was certainly a secondary use. It was specifically for the conducting of light, to purify us with fire, to make us like God.

When we consider the strong statement made by Paul that we are the temple, that our bodies are temples, it is easier to understand the placement of these chiastic elements in their position. It is necessary to send the charge of light into the entire body and provide immense amounts of light, for refinement, bonding and reduplication of DNA, until it is perfected and capable of being a vehicle that can constantly send off light, being a Christ.

...that on the head

How do we get to be called 'Israel'? How do we get to be literally gathered? We will be called Israel because we prevailed with God by our endurance, our obedience. It is because of the amount of light that we have sought for and received that has changed us.

It will be by listening to the still small voice that effects such a profound change upon our hearts, our minds, our bodies, and certainly because of our DNA that calls us and changes us into a Zion people.

...connected with light



The periodic table shown is a composite of several versions. It includes the standard 18 groups of elements, the Lanthanide series (Ce-Lu), and the Actinide series (Ac-Th). The symbols are arranged in a grid where each element's symbol is placed at its atomic number position. The chart is framed by a decorative border.

These periodic tables, considered a cultural icon, cover the walls of chemistry classes around the world, and have done so for decades. The symbols of these elements are a universal language spoken in every science laboratory spanning the globe. Many people take this representation to be the absolute and final truth regarding the elements.

Perhaps Helen Pawlowski was influenced by a statement made by Brigham Young when he said, "To the degree that something is beautiful, it is to that degree true." But when Mrs. Pawlowski<sup>1</sup>, a native Utahn, looked at the periodic chart of elements hanging on the wall of her high school chemistry class, she was aware of one obvious problem: there was a glaring lack of natural beauty in the table. She knew God did not create anything that was not beautiful. With that belief and the fervor of her passion, Helen was to discover a more beautiful, esthetically pleasing, and understandable way in which Heavenly Father could display the 92 natural elements. And not only would it provide a more delightful way to view the elements, the table and its construction would revolutionize not only the progression of the elements, it would also explain an absolute placement.<sup>2</sup>

For 35 years, through marriage, children, and the daily rhythms of life, Helen bought used science books and studied atoms, elements, electrons and the periodic chart. She tried a multitude of times, in a fashion very similar to Edison and the light bulb. She would lay out the elements every which way she could think of to make a pattern work. She made as many charts and tables as Mendeleev.

One day in her home she was using gold stickers for electrons and yarn for energy levels. She described her hand being moved in what she later describes as "the flip". The movement went from the first element to progressively to the last, all following the movement of the eternity symbol ( $\infty$ ). The pattern worked! All the

families of elements were lined up on their right order on 8 rays, one ray for each family; transitional elements between the rays. Helen Pawlowski did not measure electrons. She had these ideas flow into her mind after much pondering and studying. It was an incredible moment as all the pieces fit together.

Helen timed and dated her discovery. She realized this as the pattern of God's revelations. She knew she had received much more than a new periodic chart. She had the exacting position of electrons and the order of the atom.

I connected with Yvonne Bent during her study of sacred geometry and the Articles of Faith while she was studying the octets in the atoms. She came to a place where she was trying to understand the patterns of the geometric shapes with the messages in the Articles of Faith. After an answer to prayer, we connected through the hand of the Lord, for it could not have been any other way.

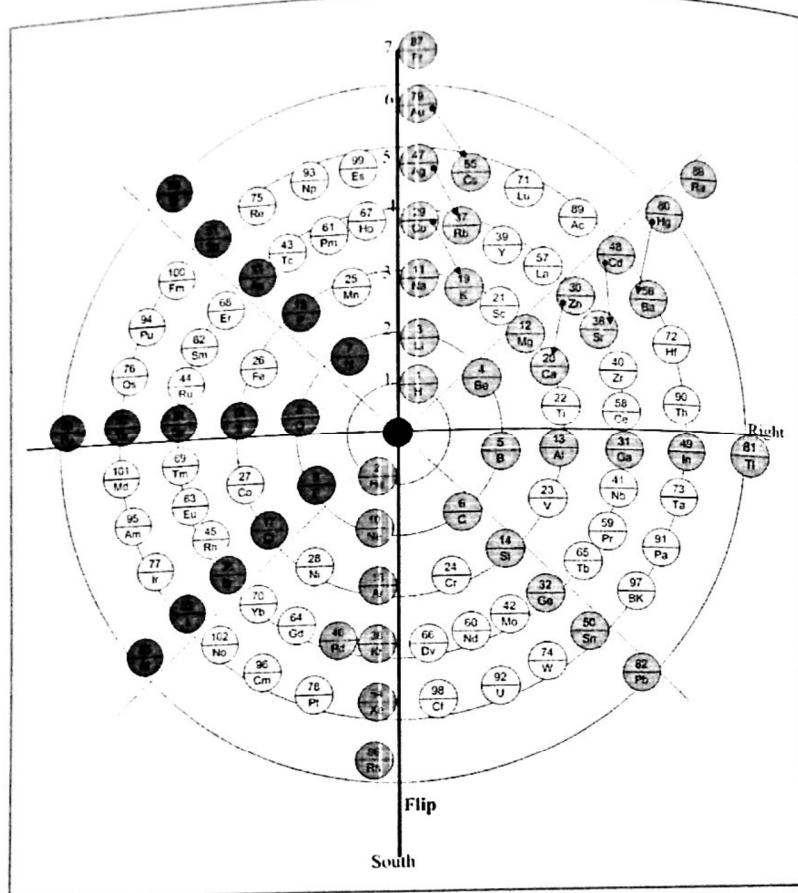
When she first saw the circular periodic chart, she squealed with delight. She exclaimed that she knew what she was looking at was in the correct alignment. The elements, gold, silver, and copper, were all on the north ray. That might not be very significant at first glance, but those are the metals used in the ancient temples, and they are used for the transmission of light. So why would their placement make any difference?

One of Helen's major breakthroughs on the circular periodic table was the placement of copper, silver, and gold. These elements graduate from a place as alkali metals to the top elements on Ray 1.

As we continued to study the table and discuss chiasmus, believing that it was a pattern in all things, I knew there must be chiasms in the atom.

One night, after a lengthy discussion regarding the pattern of chiasmus in all things, I asked the Lord where the chiasmus was in the atom. When I awoke the next morning, into my mind sprang the answer: The second ray of sliders, or super givers, are completely symmetrical or chasmatic in their electron distribution.<sup>4</sup> I didn't even look at the electron distribution chart at that time. I knew that I had received the answer I was looking for.

The circular periodic table is a delight to examine. It looks identical to a compass, having 8 rays with north and south poles, as well as a right and left side.<sup>5</sup> Everything on the right side is a giver. Everything on the left side is a receiver. There are a number of important things to identify with the periodic table in a circular format.



*Figure 1 Helen Pawlowski's Circular Periodic Chart*

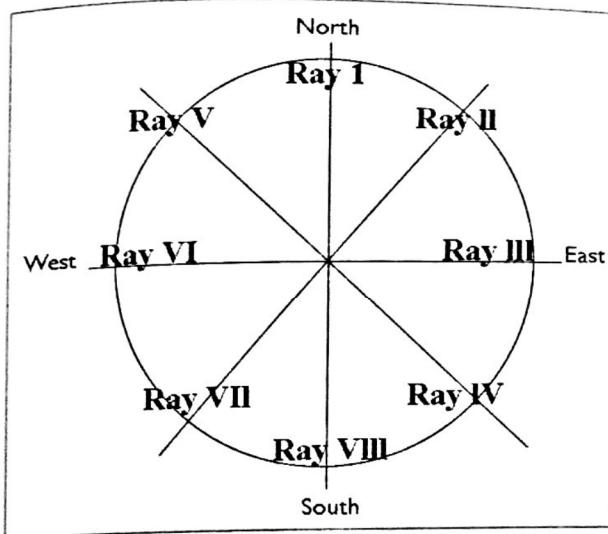
The entire explanation of the circular motion can be followed in the figure 8 pattern. We will have a very quick overview of some of the myriad of ways in which to study the elements and movement on the table.

First, navigation through the table.

The atom starts with a North South Polarity Line. Add to this an East-West line. Add to this plus sign + two lines, a multiply sign X. These are the eight Rays.

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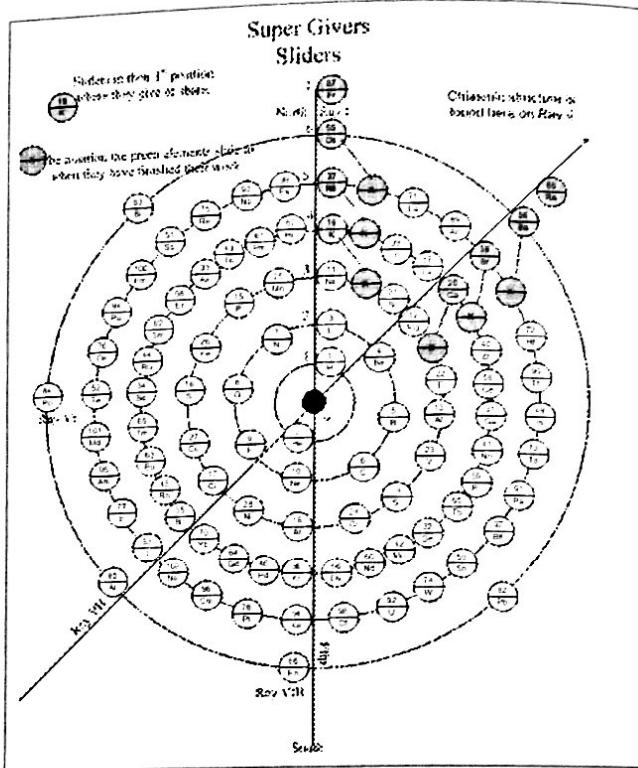
<sup>5</sup> For a thorough study of the circular periodic table, which answers the questions of quantum and absolute placement see Helen Pawlowski, *The Visualization of the Atom*, 1987, 1990.



After Ray IV there is a flip taking you back up to the top and starting on the left side. The Pattern is  $\infty$ , the number 8 (for octet) and certainly for infinity.

This paper is intended to demonstrate the chiasmus in the atom. It is not intended for a thorough explanation of the elements and positioning. But a brief study the chiastic elements, their location on the periodic table, and their functions and similarities will be illuminating, even for a small moment. All the chiastic elements are on the alkali earth ray, which are: Beryllium, calcium, strontium, barium, and radium. These alkaline earth metals are more chemically active than most metals. Here is a more detailed description of the chiastic elements.

1. Beryllium (4) has an electron distribution of 2-2. The properties of beryllium are high heat absorption and it is perfect as a precipitation hardener in cooper and nickel.
2. Calcium (20) has an electron distribution of 2-8-8-2. Calcium is very important in our bodies, making strong bones and teeth, and being an alkaline, or an anti-acid, because all acids are takers. It is also considered a *getter*, which is a substance that removes unwanted elements that would otherwise contaminate the metal.
3. Strontium (38) has an electron distribution of 2-8-18-8-2. Finely powdered strontium metal will ignite spontaneously in air to produce both strontium oxide and strontium nitride.  
Principal uses of strontium compounds are in fireworks and warning flares and in greases. A little is used as a *getter* in vacuum tubes to remove the last traces of air. Strontium's high-energy radiation can be used to generate an electric current,
4. Barium (56) has an electron distribution of 2-8-18-18-8-2. Barium is a soft and ductile metal and is used in sparkplugs, vacuum tubes, fireworks, fluorescent lamps. Insoluble barium sulfate is used for body imaging.
5. Radium (88) which has an electron distribution of 2-8-18-32-18-8-2. Radium is known to be radioactive. Purified radium and some radium compounds glow in the dark (luminesce).



So why is any of this significant? Each of these elements has the ability to be structurally capable of processing light and lots of it. The pattern which can be observed by these chiastic elements is their ability to transfer light and heat, a refining process.

Light is the power by which all things are made;  $E=MC^2$ . Energy equals matter times the speed of light. Einstein's relationship converts matter to energy. Those in science have been searching for a mathematical equation equivalent to  $E=MC^2$  for a "Grand Unifying Theory" or "A Theory of Everything" with no success. Helen Pawlowski gave us a picture showing the order of all matter! With this order science will find the Grand Unifying Theory. All energies and all powers are found within the atom, as matter and energy are related to each other. But what that matter and what does it teach us?

The spirit and the body are the soul of man (D&C 88:15). The spirit is the light, the life the spiritual part of the soul, and the body is the elements, the atoms, and the matter part of the soul. Inseparably connected, the body and the spirit receive a fullness of joy. Both the physical and spiritual parts must be joined together to bring this joy. And when they become inseparably connected, resurrected, they may receive a fullness of joy.

In examining the circular periodic table, it is interesting to see the perfect balance of giving and receiving, but especially the giving and receiving of more and more light, until the perfect day.

Comprehending the chiasmus in the elements that conduct light throughout the alkali earths makes it easier to comprehend the light flowing throughout the body as the temple. Understanding an atom and the patterns in the microcosm leads to the understanding of things much more complex as in a macrocosm because the same laws govern everything in the same progressive pattern.

It was most interesting to note that upon examining the elements that coincide with priesthood ordinations, there was a decided jump in comprehension. If at the age of 8 a child becomes accountable, meaning being able to account, and oxygen is the 8<sup>th</sup> element, which causes things to catch on fire and put off light, then immediately one begins to see that it is by the process of giving off light that we become like God.

Each one of the elements and their placement that line up next to a priesthood ordination. i.e., 12 as a Deacon; 14 as a Teacher; 16 as a Priest, 18 as an Elder; a mission call at 19-20; 30 for the year a man can begin his Rabbinical duties; 50 for the age set for calling and election made sure; and 80 for the second comforter; all having connections with more and more light charging through the elements encompassed in our body, it begins to shed a new light on Paul's statement, Know Ye Not that Ye are the Temple of God?!

It is these callings given to men to come to serve. It is by our service and the sanctification through the Holy Spirit that we are sending out light (givers), and then receiving that light back from the source of all Light.

There never is a place where you cannot see the magnificence of the pattern of light.

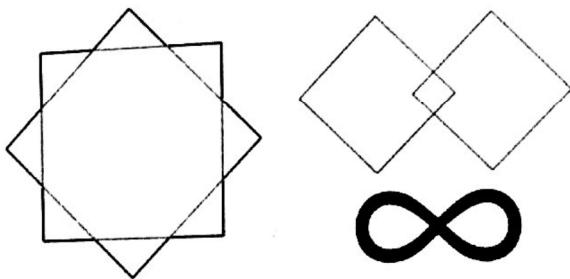
Chiastic structure is part of the order inherent in inspired sacred architecture the world over, including LDS temples. This special form of symmetry, with a Christ-centered focus, may lie at the heart of three basic archetypes utilized in inspired sacred structures. These include the square, where an X marks centrality in space, the circle – where all revolves around the still center through time, and the vesica pisces – where creation occurs at the intersection of complimentary opposition. How is this done and what does it teach us?

Before the Latin cross became the dominant symbol in Christianity, the more symmetrical X cross was common for a season. Christ-centered connections to the chiastic X cross may have originated in the heavens, where at least four different crosses are found (the *chi* of chiasmus is the Greek letter X).

The number eight is associated with eternity, especially in the horizontal figure-8 form. Astronomers, for example, have long known of the *analemma*, a figure-8 created by tracking the sun's path over exactly one year relative to the earth.<sup>9</sup> It signals the eternal nature of cyclical time. The figure-8 (two eternal circles joined by a central X) is one of two features in LDS temple Sealing Rooms illustrating the eternal nature of the covenants made there, transcending earthly time. The other is reflecting mirrors on opposing walls, the altar centered in-between them. Both feature visual chiasmus – centrality within opposing symmetry. A chain of figure-8's (in gold-leaf) typically encircle LDS temple Sealing Rooms; the two circles joined at the central X - potentially illustrating two eternities – with mortality on earth in-between them. Bruce R. McConkie stated, "There was a past eternity and there will be a future eternity." W.W. Phelps, who worked with Joseph Smith as one of his scribes on the *Egyptian Grammar and Alphabet* wrote that they had determined from the papyri that the age of our current system was 2,550,000,000 years old (2.5 billion years) and that this represented *one eternity*. Some scientists have calculated that this same time period is required for our universe to make one complete turn or *one eternal round*.<sup>11</sup>

The chiastic X of the figure-8 may also illustrate Christ's mission in the meridian or center place of time; fulfilled in the atonement. It was not long after his death that the X (also called the *tau* mark) became a symbol associated with protection through Christ (much like the pentagram and the Seal of Solomon later on).<sup>12</sup> In time the X became a symbol of Christianity on shields in Rome (as found in the equal length arms of the *Chi-Rho* symbol). Still later it was used by the Crusaders.<sup>13</sup> Today the X has been turned vertical, its bottom line elongated, becoming the most recognizable Christian symbol – the Latin cross, associated with the instrument of his death, rather than centrality in space and time.

According to McConkie, meridian means, both the center of time and the high point or apex of time, positioned at the center of the earth's 8000-year existence. He stated that the little season, spoken of by John the Revelator following the Millennium, "is presumed to be another thousand years. The millennial era will be the seventh period of one thousand years of this earth's temporal continuance; thus an added thousand-year period is needed to place the meridian of time in the midpoint in history."<sup>14</sup>



Center, The vertical overlap of the 2 squares of the Seal of Melchizedek may be a modified expression of the horizontal figure-8, both endless and eternal motifs perhaps expressing the eternal nature of time through the sealing power of the Melchizedek priesthood; Left, entrance door motifs of the San Diego California Temple; Right, entrance door motif of the Salt Lake Temple (Annex); Notice also the octagon formed at the center of the motif. As a filled-in star it possesses 8 points, potentially pointing to intersecting space and time: 2 equinoxes, 2 solstices and 4 cross-quarter days.

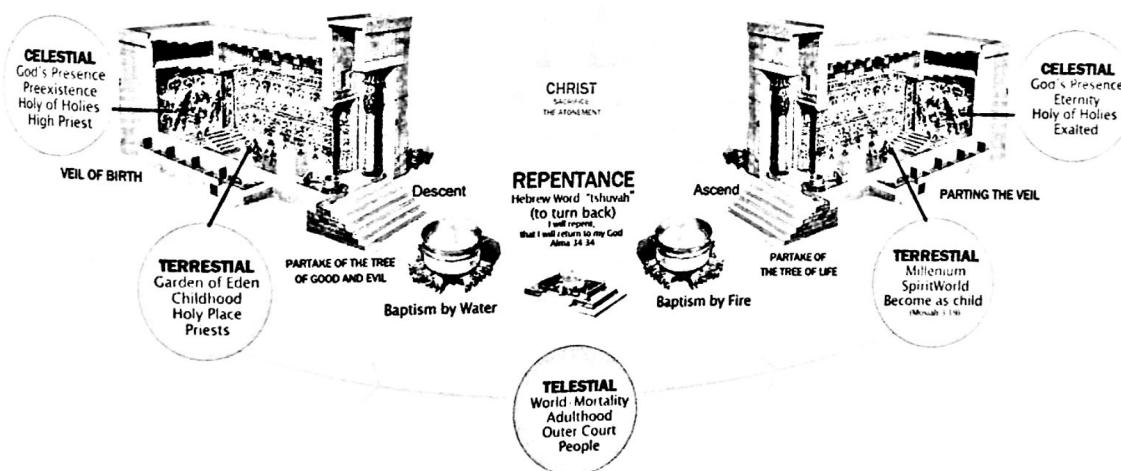
#### *The Two Ways – A Chiastic Return*

The return to God involves choice – to go forward or back - a straight and narrow path in two directions. It is a chiastic straight line, centered on alignment to God and our return to Him. We once dwelt with Him, and though now in mortality, our objective is a return to Him. This is symbolized in the linear layout of the ancient Tabernacle, Solomon's Temple, and many modern single floor LDS temples (like the Billings Montana Temple - it is oriented eastward, and movement through its ordinance rooms is from east to west, the Celestial Room at the far end of the straight line westward). Adam and Eve were expelled from the presence of God in the Garden *eastward*. Our symbolic return to God is back, through the long, linear pathway of the ancient temple *westward* – a representation of the Plan of Salvation (see below). The ancient High Priest passed by eight items on this journey, each symbolizing the Great Mediator Jesus Christ.<sup>36</sup> This mirrors the straight-line course of the sun from east to west. Potentially created to withstand the Flood, the Great Pyramid of Egypt also has a single long straight and narrow entrance passage. It ascends to Polaris in the north, and descends to the bottomless pit (below ground level) in the south.<sup>37</sup>

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#### **The Temple is the physical representation of the Plan of Salvation!**



"Here in life, we can do two things that spirits cannot. We can forgive and we can repent. Everything else, we can do better outside of mortality and thus it is not our primary concern here." Hugh Nibley

example, however. The Mount Timpanogos Temple, for example, features a cruciform shaped Celestial Room ceiling, whereas the Boston Temple features stained glass windows with subtle embedded crosses. Many LDS churches are also cross-shaped from an aerial perspective. Their spires (positioned at the crossing X area) transition from a square at bottom, through an octagonal mid-section, ending with a circle at top. This common transition of shape appears to symbolize the perfecting process, made possible through Christ, the great mediator of the covenant at center.

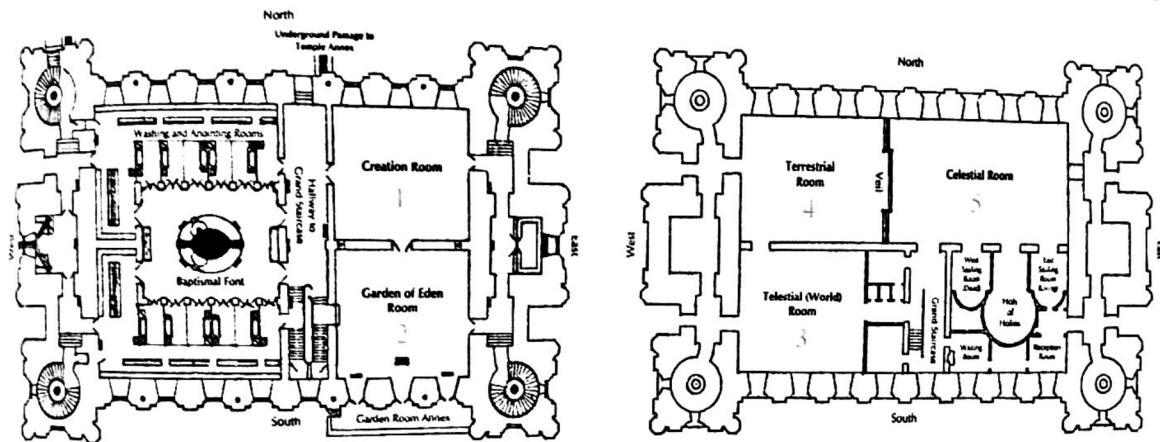
*Heavenly Symbols* A second connection to the heavens, also making use of the space-time relationship, is the use of symbolic sun, moon and star motifs on two early historic LDS temples, for example, symbolizing advancing space and the slowing of time as one vertically ascends each of their pillar-like pilasters (30 at Nauvoo and 50 at Salt Lake, symbolizing the eternal covenants made inside their great circle). Circumambulating the Salt Lake Temple's moon phases - clockwise, we complete one solar year. Ascending its pilasters vertically, we experience earthly weeks (earthstones), lunar months (moonstones), solar years (sunstones), and finally the realm of the gods in the stars of eternity (starstones). This is the ancient eighth heaven, beyond the seven heavens (the rotation circles of the six known "planets", including the sun). Saturnstones were in the original plans for the Salt Lake Temple (above the sunstones at the top of the temple's walls), and would have marked the jump off point from earthly time to the eternity of the stars beyond, as anciently Saturn was also known as *Kronos* (chronograph – watch), a last outpost for time.

~~Marriage ceremonies also involved the circle circling the new husband seven times.~~  
Movement in circles, focusing on the chiastic center, remains a part of LDS temple practice, appearing in a number of ordinances.<sup>60</sup>

Dedication of a temple's four above ground cornerstones after

We experience the symmetry and centrality of the time-oriented circle inside temples as well, often in a spiral, via progression through spiraling staircases and through successive ordinance rooms. This spiraling ascension may represent the last of eight divisions of sacred space, those intersecting space and time simultaneously in heavenward spiraling progression. These include the four horizontal spatial dimensions (north, south, east and west), plus the three vertical, time-based divisions of *past* (the Baptistry), *present* (the Endowment Room), and *future* (the Sealing Room). The spiral intersects both horizontal space and vertical time simultaneously, focusing attention on the chiastic center point; God in eternal time at the center of the great turning wheel of the spinning cosmos.

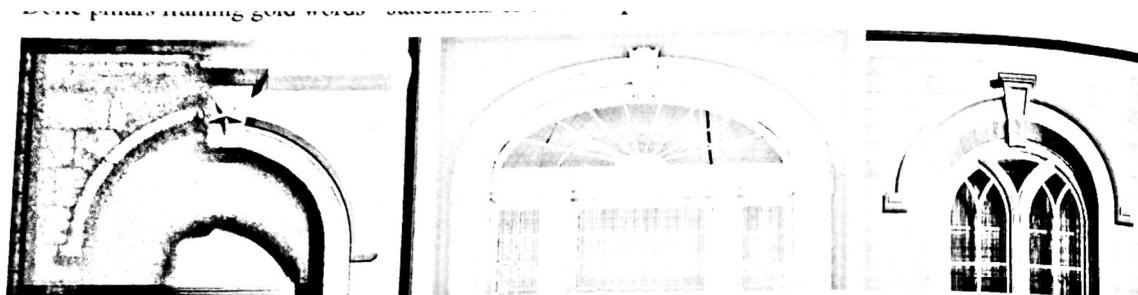
The expanding phi-proportion spiral is the most common shape in the universe, its golden proportion seen in the tiniest DNA molecule, as well as in huge expanding galaxies many light years across. The unique microscopic makeup of the double helix spiraling DNA molecule, in the temple of the human body, is reminiscent of Jacob's Ladder in its ordered form.<sup>74</sup> This creation symbol is embedded in our 23 pairs of chromosomes. According to one source, its biological order appears to be part of an elemental sacred language of letters used and spoken by God for creation.<sup>75</sup>



*Spiraling Movement through 5 Ordinance Rooms within the Salt Lake Temple: Left, First floor and right, second floor. Such movement intersects both space and time while progressing heavenward. Five covenants are made as part of the Everlasting Covenant. The number five is chiastic, used prominently throughout the culture of ancient Egypt.*

Patrons at the Salt Lake Temple, for example, progress in a perfect circle, ascending one floor from the plain, lower lit Creation Room, to the fully illuminated and intricately decorated Celestial Room higher up. Initiates begin this symbolic journey facing east in the lower level of the temple and end up facing east again as they pass from the Terrestrial Room into the Celestial Room, the symbolic presence of God. Passing through the veil is done eastward, in a straight-line axial path, like the ancient temples (the early LDS temples combined both circular and axial movement – D&C 3:2).<sup>81</sup> According to former temple architect Keith Stepan, progression through the three vertical floors of many larger temples, or through the three successive ordinance rooms (in horizontal fashion in the smaller, single floor temples) symbolizes travel through the past, the present, and the future. “Even if the temple is on one level, it was always a progression from one end through to the other, with the sealing rooms on the far end.”<sup>82</sup>

“...covenants made with the



*Alpha and Omega motifs as part of windows at the Salt Lake Temple (left), the Kirtland Temple second floor east rising sun window (middle), and Manti Temple window (right). Each features a central keystone and half circle rising sun shape.*

#### *The Related Alpha & Omega Symbol*

The Alpha and Omega motif found on many LDS temples is directly related to this rising sun symbol. It features classic visual chiasmus, connected to Christ and creation. It is located above all doors and windows on the exterior of the Salt Lake Temple – entrance points for light. Christ may be symbolized in the central, inverted *Alpha* keystone, balanced within the visual symmetry of two *Omega* endpoints. The symbolism of light, creation and keys center on Him in this motif.

#### *Light*

We first notice that this symbol is placed above all places of light entry (windows and doors) at the Salt Lake and other LDS temples. Light is the elemental symbol of God - His power and intelligence. Alpha and Omega represent the beginning and the end - of light in sunrise and sunset each day. Observe also that it resembles the Egyptian *aht* motif; representing rebirth and the resurrection of the sun each day, and that of Osiris. We all are reborn through Christ as mediator, and look for the return of the resurrected Christ in the millennium.

Chiasmus is found in the basic form of sacred architecture, including the intersecting X-cross diagonals of the spatial square, the center point of time-oriented circles and the creation focus of the vesica pisces. It is also found in many other temple motifs, including opposing spirals and the rising sun on the horizon motif, positioned centrally between two upright pillars. This light-oriented motif, covering Joseph Smith's inspired Nauvoo Temple, may be the most important visual chiasm on Latter-day Saint sacred architecture. It suggests the primacy of light in all of creation, symbolized by the sun - God. It is His light that dispelled darkness and chaos at creation, animating matter, providing life throughout the cosmos. Light is also the binding and sealing power of the Order of the Priesthood, keeping all things from descending into darkness and a return to chaos. This and other meaning appears to be suggested in its chiastic center - the sun - positioned between two symmetrical, covenant-oriented pillars; pillars representative of the Eternal Covenant, renewed each day in the resurrecting sun. The complimentary opposition of this motif also signals male and female - in creation - a primary temple theme connecting us to the Great Creator. Chiasmus is symmetry, balance and unity. It is also beauty and order - the Order of the Priesthood. This and much more can be discovered as we seek God in the form and symbols of the most inspired sacred architecture.

observed this graphic 8 created over time. According to Brenan, "Using a stationary focused magnifying glass, he [Ross] placed wooden planks in a fixed position for 366 consecutive days. The sun's rays burned a pattern in the planks which when graphed showed a precisely executed double spiral... In winter the spiral is counter-clockwise and the coils are wide... after equinox they begin to wind into a clockwise spiral and tighten. They contract until the summer solstice and the right-hand spiral begins to expand after the solstice, straighten again at equinox, and return to a left-handed spiral again in winter to continue the process perpetually" (Martin Brenan, *The Stones of Time*, Inner Traditions International, p. 190). The author is grateful to Frederick Huchel for added insights on the analemma.

<sup>8</sup> Sacred circles occur in scripture (and at the temple) frequently. We see this in the shape of manna from heaven (round white wafers), lavers for washing, and a number of ancient and modern priesthood ordinances, including circumcision (anciently), baptism (in circular fonts), temple cornerstone dedications, movement through temple ordinances (and up and around through ordinance rooms of some temples, such as Salt Lake and Cardston), group priesthood blessings, and prayer circles. Various forms in the temple are circular, including spiral staircases, domed ceilings over square rooms, chandeliers, tables, and other furnishings, and men's hats.

quoted in Paul B. Skousen, *Brother Paul's Mormon Bathroom Reader*, Cedar Fort, pp. 74).

Hugh Nibley has documented the Savior surrounded by his Apostles in a number of ancient sources. In the Gospel of Bartholomew, for example, "the Lord takes the Twelve up into the mountain and standing in their midst gives them certain signs and tokens and then departs." In 2 Jeu, a very instructive early Christian text, the Apostles and their wives form a circle around Jesus "so that he can teach them the ordinances of the treasury of light, they being conducted by him through all the ordinances and thereby learning to progress in the hereafter." Then, "all the Apostles, clothed in their garments... placing foot to foot, made a circle facing the four directions of the cosmos" and Jesus standing at the altar proceeded to instruct them in all the signs and ordinances in which the Sons of Light must be perfect" (2 Jeu, 54, [40] and 66-67 [53g] in Schmidt, *Gnostische Schriften in Koptischer Sprache*, 99; tr., 193. Cited in Hugh Nibley, *Mormonism and Early Christianity*, FARMS—Deseret Book, p. 64). (See also Hugh Nibley, *The Ancient Prayer Circle*, Mormonism and Early Christianity, FARMS—Deseret Book.)

<sup>48</sup> There are 594 chapters on either side of Psalms 118:8 in the Bible. It states; "It is better to trust the LORD than to put confidence in man." The sum of 594 and 594 is 1188. Trusting God is at the chiastic center of scripture.

<sup>74</sup> The DNA molecule is the foundation of *life* (genetic information). It features 2 spiraling helics (like a spiraling staircase), which makes 1 complete clockwise turn every 10 rungs (10 is the number of completion or perfection). There are 4 types of 'rungs' each a nucleotide spanning between the two spiraling helics. When looking down in axial view upon the geometry of this double spiral 3 major double *pentagons* appear, each intersecting with the other 2. The spiral and the pentagons are loaded with divine or *phi* proportion inherent throughout all nature (including proportions of the human body) and copied into sacred architecture (see the Appendix). The turning rungs of the DNA molecule are reminiscent of the ascending and descending angels on Jacob's ladder and temple spiral staircases generally. Eternal life is promised and granted in LDS temples. (See Stephen Skinner, Sacred Geometry, Sterling Publishing, pps. 72-73.)

<sup>75</sup> The human DNA protein molecule is shaped like a spiraling staircase, complete with steps in its complementary nucleotides, forming a kind of letter-like code of amino acids using 4 letters; A, C, G, and T. It is a natural "Jacob's Ladder". (In many illustrations of DNA, each step is divided into two chemical parts, left and right (for ascending—descending?). According to Rabbi Jonathan Sacks (Chief Rabbi of Great Britain), "The human genome does seem to me to be one of the rare scientific discoveries that is poetical and even mystical. The Kabbalists actually maintained that everything that exists is the result of *tzerfim*—various permutations of the letters of an alphabet. It now turns out that this is not a metaphor at all. It is actually, literally true...the DNA string of those characters is all a series of letters—A, C, G and T—which, as it were, extend to perform this huge language that is the DNA. All life is exactly as the Bible said, a matter of language, of instructions, of letters, and words. We suddenly realize the deep resonance of the biblical idea: "and God spoke and there was". Professor Jonathan Sacks, Forum, 6 February 2001, quoted in Kleiman, DNA and Tradition, p. 172. For more on the highly symbolic letters of Hebrew alphabet, see Joe Sampson, Written by the Finger of God, Wellspring Press.