

Research note

The Middle Ages and Modern Windmills as Landscape in Literature

—a trial study to integrate social science's environmental
issues with color systems, music and pictures (movies)—

Hisashi SEGAWA

Key words: windmill, literature, eco-criticism, color system, music theory

Summary

The earth is a planet of water: H₂O. Life was born in the ancient hydrogen sulfide abundant ocean, which was the outcome of the birth of the sun. For the future survival of you, us, animals, plants, microorganisms, and all creatures, essential sustainable energy including hydrogen needs to be produced by water. Literature should depict the inner world of our mind by fusing color, movies and music into one system in order to prepare for this historical turning point.

The nine-color system must be constructed for this ambitious aim. James Lovelock's Gaia needs cool earth temperatures to cure her body wounded by the heat that has been produced by humans after the fossil fuel combustion since the industrial revolution. In total, the seven colors of ocean and rivers' blue/light blue, rainforest and temperate zone forests' green, including their light green and yellow/red, the white of the seashore and clouds on the oceans and mountains will be the key colors which are used when artists use the environment as eco-criticism of literature, which fuses color, music and literature into one entity.

We can write novels including colors whose color system enables us to depict our abundant feeling of the environment. If we study the theory of music a little, we will be able to compose music with the help of a computer-based composer: for instance 'Cubase' or 'Music factory' and upload to 'YouTube' or other pro/indie's (independent musician) music sites. If we cannot compose music, we may find friends in our community. If we cannot paint, we may find an excellent painter among us.

Index

1. Introduction
2. R. Steiner's theory of Art
3. Some preceding approaches to harnessing environmental issues/wind turbines to novels
4. Windmills and literature (movie)
5. A trial to depict the context of literature using colors
6. Windmills and music / pictures
7. Windmills and color / paintings — how to depict environment to fasten construction of wind turbines-
8. Our next stage project — the fusion of three elements (color, music and literature) into one —
9. Conclusion

1. Introduction

In this research note, The Middle Ages and Modern Windmills as the Landscape in the Literature: a possibility to integrate social science's environmental issues with color systems, music and pictures (movies) is discussed. The author of this essay has studied economics for long years since his university student days, until he published a book 'Wind turbines in rapid progress', 2011, that is his doctoral dissertation.

But the task that should be discussed and examined from the view point of non-economic and non-technological aspect of wind turbines, generally speaking the artistic aspect of environmental problems is remained unexamined. Here, the author wants to jump the hurdle of natural and social sciences. The author's intention is to integrate social sciences and humanities.

2. R. Steiner's theory of Art

First, before beginning discussions on the ways and means of eco-criticism, Rudolf Steiner's methodology or viewpoint to integrate literature and some fields of art should be introduced¹. He writes "Art is eternal; its forms change. And if in everything artistic there is some relationship to the spiritual, you will understand that with the artistic we place ourselves,

creatively or through enjoyment, in the spirit world. A real artist may create his picture in a lonely desert. He does not worry about who will look at his picture or whether anybody at all will look at it, for he creates within a divine-spiritual community.he creates in their company. What does he care whether or not anybody admires his picture. A person may be an artist in complete loneliness. Yet he cannot become one without bringing, by means of his creation, something spiritual into the world, so that it lives in the spirituality of the world. If one forgets this basic connection, art becomes non-art.....If we paint or view a picture in a frame, we can imagine ourselves looking out through a window. But to paint for exhibitions — this is beyond discussion. An age which sees value in exhibitions has lost its connection with art. By this can be seen how much waits to be done in culture if we would find our way back to the spiritual-artistic.”

As for me, Rudolf Steiner’s lessons above seem to be that artists should not make their works in order to make money or become famous. There seems not to be any relation between an artist’s social position or renown and his work’s true value. Commercialism has long damaged musicians’ incentives for music. Sport unfortunately has been becoming more and more the ways and means of business since World War II, in the wave of the newly emerged neo-monetarism.

Second, it must be noted that our great Buddha once told his disciple Tokudaisei that he could make his mind and reason clear by enduring the very hard training of becoming Buddhist. Those are the consciousness and reason of the integrated feelings of eyes, nose, tongue, skin and consciousness or the five feelings of humans. He emphasized that the five integrated feelings are needed to live in the world.

Buddhists in the ancient days walked and walked among the forests of the steep mountains for one thousand days or more wearing white clothes symbolizing the intermediate situation between ‘life’ and ‘death’, and holding a cane until they would die, if they could not find true spiritual awakening or Buddhahood.

Maybe their feeling for nature was fundamentally different from that of our modern people who are now living in big cities. We are born in a room made of concrete in a hospital building, then grow, play and work in the city where there is but a scarcity of handcrafted nature.

When we become tired and nervous in the life-or-death struggle, we become to miss nature and leave the big city for the suburbs to interact with nature saying ‘nature is

wonderful'. Our understanding of nature is like that of an image of artificial nature and of protected animals or birds who are living for the park visitors, not for themselves in the zoo.

In this essay, I will try to find a new dimension of eco-criticism of literature integrating it with color, music and movie.

Incidentally, Suzuki Masami, Niigata University told in his article titled 'The border between words and music; the experiment of contemporary literature and performance' that various experiments are conducted in contemporary music.

He points out that "especially the collaboration of poets and musicians has brought about many expressions by struggle and resonance with language and music, or a fight and rebounding with them." He takes up some examples out of these experiments; Russian poet Vladimir Martynov², Group Arkhangelsk, and Pop Mechanics et al. He considered "the artistic possibility of the performance by language and music. There are some large evils that the system of musical education and the influence that lack of body nature of language and music brings. Rehabilitation of 'the sound itself in contemporary music and research of 'the language itself' are deeply concerned with language and the problem of the musical body of nature". He asks himself, "Is a meaning required in music or language? Are music and language without meaning, art? Can collaboration works of contemporary music and literature, which think 'the sound itself' and 'the language itself' as important, create rich expression?"

His Japanese website³ contains the full text. Our aims in this paper are shared with his attractive questions.

3. Some preceding approaches to harnessing environmental issues/wind turbines to novels

About twenty years ago, I wrote a novel entitled *Endless World: An adventure of Spaceship Kreios*⁴, containing the indirect aim of raising global environmental issues. Kreios is a son of Gaia of Greek mythology. Since the publication of *Adventure of Spaceship Kreios*, many novels were published by the Amazon KDP (Kindle Direct Publishing) and the paper media publishers, which were suffering declining numbers of readers.

3.1 A lineup of those novels is as follows: Fantasy music in crescent⁵

The Japanese singer songwriter Mariya Toudo's career composing music and singing songs has come up against a brick wall after twenty years. She set off on a broken journey and had

a good experience with many people with whom she could never have associated, and found the inner world of native nature so far as to know the true meaning of poems and music: noticing deep and profound ecology could not be attained in Tokyo.

Permit me to introduce 'KDP' here, before continuing to explain the next works. KDP, Kindle Direct Publishing is an Internet bookstore presented by Amazon on the Internet website. Writers can upload their literal/music works through DIY (do it yourself) publishing. The KDP way of publishing is electronic publishing. It is linked to a different kind of music/movie media, which will be mentioned below. The next works were published by KDP publisher.

3.2 Travel novel of Izu Dancer⁶

The author, suffering from many troubles caused by some aspects of life and business, set off on a trip to Izu peninsula, which was made famous in Kawabata Yasunari's 'Izu Dancer'. As Yasunari became cured from his mental melancholy by getting acquainted with a dancer's family on the road to Shimoda port, the author of this essay also became relaxed walking through autumn colored forests and cured when looking at the panorama of the dark night stars.

3.3 Self-sufficient garden⁷

The author has long been living by a slightly large field and cultivating it in a self-sufficient style for more than thirty-five years. This book is a document of such a hard but happy experience of building a self-sufficient lifestyle and struggling against global warming. Now abundant organic products like fruit, greens and produce that are made from them are offered in the 'organic market', which is open every two months. This book is my first book, I believe, which was written for the purpose of eco-criticism. This book has been one of the best selling books that I have ever published.

3.4 Fantasy in crescent -Collection of poems⁸

Although the author writes novels and, as later will be mentioned, composes music that relates to the context of novels, it is necessary to create and embed poems in the novels, enriching their image. The author sometimes walks along riverbanks, mountains and seashores to inspire his vacant mind, which results from the manualized style of educational tasks.

Now it is said that the educational community is generally being influenced by the enforcement of governance and its compliance. In fact the author began to write novels in the beginning/midst of the Japanese 1990's lost twenty whose characteristic was the absence of a leading sector for economic development since the aftermath of the early 1990's break down of the bubble economy.

In the environmental circumstances that compel workers to obey rules that were made by unknown technocrats, they become to feel uneasy and seek help. In addition to these circumstances, mental or disease-based pressures compel humans to escape to places that are calm for them. This will be mentioned later.

Japanese poems of seventeen syllables or Haiku can well depict tones or music, although Haiku itself cannot play music. Do you know?

The ancient pond
A frog leaps in
The sound of the water⁹
by the famous Japanese poet Matsuo Basho?

3.5 In my Fantasy in crescent -Collection of poems, I consciously adopted poems in which tones can be heard. The next book has a lot of tones among its context.

Koto princess of Heike, excellent Koto player in legend: Where has she gone?¹⁰

This is a picture book for children, embodying two elements -color and music- in primitive ways and means. Naki-suna, the singing sand on the Kotogahama seashore in Shimane Prefecture, Japan was the main theme of this book. The forever singing sand stopped singing because of sea pollutants and a concrete dam built in the river among forests. Large and small-scale dams prevent the river from conveying stones and sands into the sea, depleting the seashore through the action of the ocean current. Sensitive children can understand well environmental issues through the combination of abundant colors and exciting auditory sense picture books.

4. Windmills and literature (movie)

4.1 Japanese Splendid new world¹¹

The main character of this book went to an under-developed country to cooperate in

building small wind turbines for agriculture, with the advice of his wife who was a volunteer for the under-developed countries. He felt intimate with the people there, understanding their culture and customs. One day his little ten-year-old child came up to this Himalayan region by plane from Japan. By building small wind turbines for their agriculture, they came to know the importance of humanity. In this case modern small-scale wind turbines are the theme themselves rather than the background, as in the case of Don Quixote.

4.2 Don Quixote de la Mancha¹² is a novel by the Spanish author Miguel de Cervantes Saavedra and is considered one of the best novels in history.

The first part was published in 1605 and the second in 1615. Don Quixote de la Mancha, the leading character of the novel, read so much military history that he became crazy in bed, finally going out of his house with his servant, rushing to a large windmill, which he thought was a giant. Why did Don Quixote de la Mancha rush into the windmill? I think that in those days his mother country Spain was in decline, he guessed, because of the Netherlands' development, so he mistook the windmill for a giant.

In Japan, people in Izu peninsula oppose the construction of large-scale wind turbines and use the name of Don Quixote, but they misunderstand him. Don Quixote loves the journey in the green countryside and understands the life of the farmer, peasant and farmhand, who were living in the fields.

4.3 Moulin Rouge¹³

This novel can be enjoyed by a cinema that depicts the famous painter Toulouse-Lautrec's life. The 2001 American movie version of Moulin Rouge is different from the 1952 version. The main theme music is a love song, which has no relation to Moulin Rouge. You can listen to this love song on the Internet site. In 'Moulin Rouge', the windmill is only the monument of the story and is no more than a mental symbol of the story. The red/rouge color may be the flame of love of the miserable hero. This novel has been made into a movie.

4.4 A Violent Wind Zone¹⁴

This is a detective story in which the main theme is the struggle between citizen ownership and the disposal of nuclear plant fuel. One day the body of a female, which was hung by a fishing rope on the wind turbine's blade, was discovered. This is a bizarre murder case. Atsuo Nakamura is famous because he has long been a hero of a series of cinema whose

title was Monjiro Kogarashi, a biting winter wind.

My doctoral dissertation's main theme was on the local government owned large-scale wind turbines and wind farms. It was mainly an economic break-even point analysis on the Japanese wind turbines or wind farms, excluding non-economic and non-business analysis such as an evaluation of the artistic and literary aspects of wind turbines. Those analyses could not be carried out within the constraints of the doctoral dissertation theme, which was environmental management. The unfinished task will be partly covered in my next book.

4.5 A cat's face

This novel written immediately after the giant earthquake that struck the east coast of north-east Japan in 2011 depicted wind turbines as the background of the story. Although the murderer ran away from the detective, he gave up trying to escape and finally climbed the wind turbine tower and jumped down into the blades to his death. Although the aim of this book was to offer the readers the chance to enjoy reasoning about unsolved cases in Minamisanriku-town, which was struck by the 2011 Tsunami, the true intention was to examine the relationship between humankind and the sea.

This was further developed in the following, Wind turbines in Japan; life-threatening Genpatsu and tough wind turbines—a travelling essay after the meltdown of the Fukushima nuclear power stations—

Before the 2011 earthquake and tsunami occurred, a detective story entitled Murder of the mystery of the flavors of the ocean¹⁵ was published. In the book the seashore, the place of the meeting of humans and the ocean, was depicted as the place of the pure love of a young girl and boy. This book was published on 8th August 2011 shortly after the 2011 Higashinihon earthquake, tsunami and meltdown of Fukushima Daiichi Genpatsu. I started writing this book in 2010, the year prior to the earthquake, so someone said 'You foretold the earthquake, the occurrence of the gigantic earthquake.'

Wind turbines in Japan; life-threatening Genpatsu and tough wind turbines—a travelling essay after the meltdown of the Fukushima nuclear power stations¹⁶—is an essay written immediately after the disaster of the gigantic East Japan earthquake. The hero of that book, which contains the records of investigations with ASLE-Japan; the Association for the Study of Literature and Environment in Japan, is a reborn Don Quixote de la Mancha in modern Japan. I thought in those days that an essay or a novel would be more widely accepted by readers than a hard technical book. It contains more literary expressions than technical terms,

not using a color system.

5. A trial to depict context of literature using colors

5.1 Color systems

Let me explain the Munsell color system before introducing cases of the relationship between literature and colors. In colorimetry, the analysis of color, the so-called Munsell color system is a color space that specifies colors based on three color dimensions: hue, value (lightness), and chroma (color purity). Hue is arranged in the periphery, value is arranged in the horizontal direction and chroma is in the vertical direction.

In addition to this universal Munsell color system, Japanese usually use PCCS (Practical Color Co-ordinate System) which is admitted by the Japan Color Research Institute. It clarifies colors by tone, which is fused into one by value, chroma and hue. By using this color system, I conducted a questionnaire survey on the relation between wind turbines and (image) color or music on the students of my university. It will be introduced below.

In practice, we can use web-colors that are graded by hue, value and chroma. Books can now be made and published by DIY techniques on websites, so we should use the web color system. As for the web/html color system, we can use 'Paint', which is installed into the Microsoft Windows as standard, inputting color data for three dimensions —hue, value and chroma— which we can use in the web site color system.

From the editing window, by inputting the data for color that we need, we can make color available on the Internet website according to the various needs we have. Before making color with paint, you had better use rgb color converter and get data for color you need. For instance < <http://www.yellowpipe.com/yis/tools/hex-to-rgb/color-converter.php> >¹⁷ will be useful for this task.

5.2 Hyper Space Journey

Japanese classical literatures in medieval ages had a special inclination towards colors. It is not strange for literature to use color in its context and to depict characters' delicate mental landscapes with color. For instance, 'She laughs like a flower and sings a song like marine blue'. Color may be a poem in the song entitled 'An Azure Earth' by the famous Japanese female singer Seiko Matsuda, who will be introduced later.

The environment and nature have their own peculiar colors, which cannot be explained in

physical or chemical terms, or an experimental apparatus, but are recognized by the human eye and its concatenated neuron system. The result of color recognition is the only one of human perception on color.

In the fictional novel, *Hyper Space Journey*¹⁸, I have first used colors to depict a journey to hyperspace. A woman, who had lost her memory in a horrible bus accident in her younger days, and a man, who cannot forget the shadow of her youth, met accidentally in the hyperspace in which they believe. They go through a rainbow-colored tunnel and reach the outer and past world.

In the following, *Travelers in the super strings space*¹⁹, I used the respective colors to portray each scene: for instance the white color of a rose of Sharon (Japanese Mukuge) expressing the joyfulness of the chance of meeting again, the seven colors of the rainbow for the space of super strings, black for madder, red for naught, dark green for a promise to see again and so on.

In my latest book *Mother afterimages of Showa and Heisei*²⁰, I used many colors to portray my feelings in words: the white of snow for the feeling of mercy towards my mother, the red of a flame for her anger towards me, sky blue for her husband and so on. In this book, I inserted a poem among the context entitled fragrance of plum blossoms for my mother, later I composed a song based on the poem. In this literary work, I tried to consolidate three different dimensions of media, literature, color and music into one. But books are not capable of voicing the songs themselves, so books including a CD or DVD should be sold, or a movie should be made available for consumers.

6. Windmills and music/pictures

In 1810, Goethe published his *Theory of Colors*²¹, which he considered his most important work. In it, he contentiously characterized color as arising from the dynamic interplay of light and darkness through the mediation of a turbid medium. He referred to the correlation between color and music, but his intention was disappointingly not clear. He might have noticed the correlation between the seven colors of light and solfa of tone. It is sometimes said that certain persons have a specific ability to see a different color for each note of the seven-note scale. Such a specific ability is called synesthesia, Japanese so called 'kyoukankaku'. For instance, they can see white for the 'do' of the seven scales of tone/solfa, 'do', 're', 'mi', 'fa', 'sol', 'la', 'si'. They can also see yellow for 're', blue for 'so' and so on.

As for me, I do not have such an ability. But almost everyone can distinguish the difference between two major/minor scales. The former major scale sounds bright and the latter, dark. We may be able to construct a new dimension for the two different media of color and music. Of course, although a book cannot voice a song in itself, it can be adapted into the other form of media, a movie. Film has a story and music embodied in it. Readers can listen to the lovely song titled *Windmill* by *Charmaine Sheh*, with English subtitles on YouTube.

Music singing windmills; The Windmills of Your Mind – Enoch Light — 1974

Do you know the movie *The Thomas Crown Affair* (1968) or the song *The Windmills of Your Mind* which is the main theme song of that movie? You can enjoy the DVD movie or listen to the music, song on YouTube²². The song (with the English lyrics) was introduced in the film, *The Thomas Crown Affair* (1968). You can appreciate it on YouTube and buy it on Amazon. The book (Sheet music) is available in Amazon Kindle version. The Japanese edition is also available.

As was mentioned above, in my new novel *Mother: Afterimages of the Showa and Heisei*, I used many colors such as snow white for the fragrance of my mother, duck blue for the lake, raven for the Oedipus complex, cherry pink for the brightness of life and so on, to depict my affection or relationship with my mother.

But because readers of this print media style paper/book cannot listen to the music, the song 'Fragrance of plum blossom', was uploaded to the Internet websites, YouTube and Soundcloud. Environmental problems can well be understood by this collaboration between the two different media of literature and music.

7. Windmill and color/paintings —how to depict environment to hasten construction of wind turbines-

7.1 A painter who depicts modern wind turbines -Brian Ritchard -

In 2008, Brian Ritchard began a new series of paintings depicting American wind farms, inspired by 17th century Dutch landscapes, according to the *Chicago Tribune*.

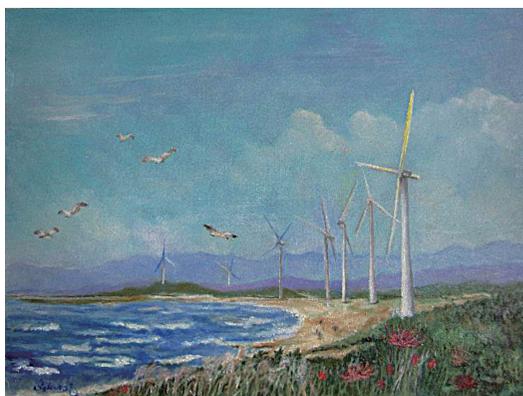
The *Chicago Tribune* states; 'These wind turbine paintings have brought him to a more traditional engagement with art history, while simultaneously providing him with a subject that is both modern and contemporary. These recent works are all steeped in direct observation of actual wind farms, spread across the American Midwest²³. The wind comes

from the right hand side to left and the wind turbine turns facing the right hand side wind in his picture.

According to the North Central College homepage, the exhibit, titled Turbine Paintings Series²⁴ is free and open to the public in the College's Schoenherr Gallery at the Fine Arts Center, 171 E. Chicago Ave, and runs from April 10 to June 14, 2015. The explanation above is from its homepage²⁴.

7.2 A first Japanese painter who paints large-scale modern turbines

My assistant painter Setsuko Sakurai depicts wind's influence on four subjects - trees/grass, clouds, seagulls and tiny waves. This wind farm is situated on the coast of Shimane prefecture facing the Japan Sea. She may be the first Japanese painter who paints large-scale modern turbines.



The modern windmill is not only a machine that can generate electricity necessary for modern life and industry, but a fantasy embedded in the environment! It should be depicted by environmentalist artists and writers.

The wind that blows from the west generates electricity and sings a song that we can hear via our mental ear. The wind comes from the left - the west side or Korean Peninsula. Can you see the four hidden subjects, meaning the wind, which enables the windmills to turn and sing a song in this picture? Yes, wavelets, sea gulls, Japanese pampas grass and the blades of the wind turbines. The red flowers in the foreground are Japanese cluster amaryllis, which were the origin of the Japanese children's toy, Kazaguruma.

This picture was painted by color perspective, which is usually used in painting. But color perspective/aerial perspective cannot depict wind itself, so we must make a song so that we can more or less feel the wind from distance.

Aerial perspective or atmospheric perspective refers to the effect the atmosphere has on the appearance of an object as it is viewed from a distance. As the distance between an object and a viewer increases, the contrast between the object and its background decreases, and the contrast of any markings or details within the object also decreases. The colors of the

object also become less saturated and shift towards the background color, which is usually blue, but under some conditions may be some other color; for example, at sunrise or sunset distant colors may shift towards red.

Color perspective uses the idea of warm colors coming forward and cool colors receding. Warm colors like red and yellow are considered advancing colors. Cool colors such as blue and green are receding colors.

Kazaguruma in the Sainokawara in Shimokita peninsula Aomori Prefecture represent dead children's toys in heaven. It has a counter clockwise rotation. I do not know why, but like 'The Windmills of Your Mind' the parents of the children desire their dead child to be born again through the reincarnation of life.

Kazaguruma and windmills may share the same concept. Kazaguruma is called Flower Kjimaya in Okinawa. Dead children play with Kazaguruma, Clematis patterns in heaven.

So, what kind of music will meet that purpose? It may be listened on the other side of the same coin, which has Higanbana on the one side of it and a windmill on the other. This song may be coming soon to YouTube as soon as the painting is completed.

8. Our next stage project —fusion of three elements (color, music and literature) into one —

8.1 The earth is Lapis lazuli color

The earth is Lapis lazuli color by the famous female Japanese singer is a good example of integrating the environment, poem/literature, color and music into one dimension. So, are there any methods to write a novel or to compose music using the color perspective? Yes, I guess, there are.

When composing music, we can depict it with a kind of perspective effect by the selection or combination of major or minor, chord progression and musical instruments and so on. Major chords sound joyful such as the feelings of the environment, and minor chords sound lonesome like Rachel Carson's *Silent Spring*. So when it comes to composing music for *Silent Spring*, we had better use minor chords.

Songs which are composed in major chords create the sound of the landscape or environment approaching toward the person listening to the music, on the other hand, songs which are composed in minor chords, have them fading out, then disappearing.

So, can poems or novels depict perspective? The fading-in or fading-out of music is usually

used in musical arrangements. My Singing Windmill is a case in point. Singing Windmill is the theme song mentioned above in my doctorate, Wind turbines making rapid progress.

8.2 Yome Tome Kasano Uchi

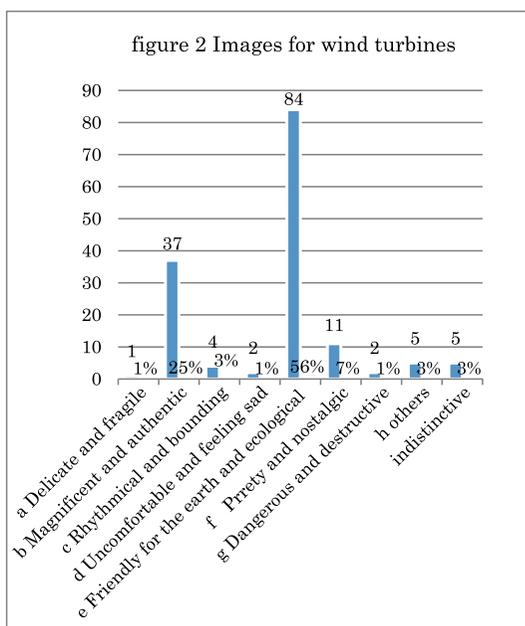
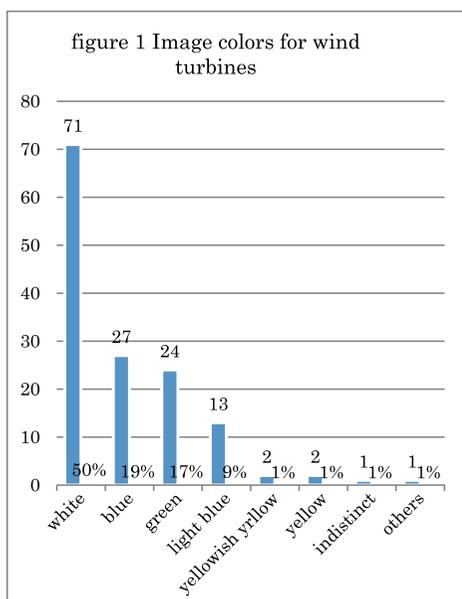
The Japanese proverb “Yome Tome Kasano Uchi” or “Choose neither women nor linen by candle-light” may help us utilize the perspective technique because objects in the darkness, under the lights, in the Japanese-style flat and wide hat/Kasa or from the distance make us feel they are obscure and beautiful through the human sensory illusion.

When depicting past events or memory and distant landscapes or the environment, we may use obscure and hoarse expressions or context as I tried in my recent novel ‘*Travelers in the super strings space*’. The English proverb ‘Hills are green far away’ is precisely a case of the perspective of depicting objects which is exiting far way.

8.3 Wind turbines, color and music

The 2016 questionnaire survey²⁵ for our university students on the images of wind turbines and their relation to business, art and music will partly be shown and examined for the next stage discussions²⁶.

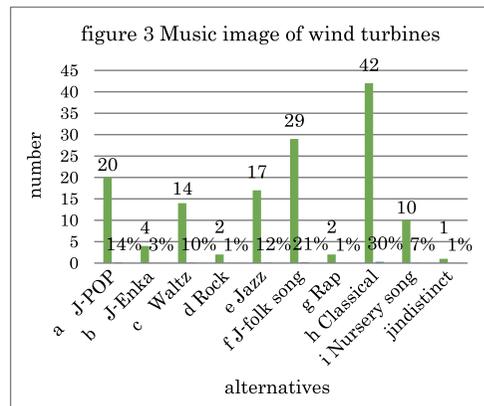
In figure 1, which reveals the result of image colors for wind turbines, white is the largest



color image in number. As white is a color in harmony with green and blue background, it is natural that a large number of students selected white. Next, blue, green and light blue colors are chosen, which are clean and make us feel at ease.

These tendencies may be reflected in the following results of images for wind turbine. Figure 2 illustrates the relationship between the color and image of wind turbines. Almost all students selected Friendly to the earth and ecological and Magnificent and authentic. So, what kind of music do they prefer for the ecological friendly instrument of generating electricity for human economic and social activity?

Figure 3 shows the results on image songs for wind turbines. At the top is European classical and next is Japanese old folk song called Minyo. J-pop including Korean pop is the third music image and Waltz is the fourth. Nursery song is small in number, but as it is a kind of song which is similar to J-folk song, these two genre of songs share the second largest song image, after classical in number. The image color and the corresponding music for wind turbines has relationships in the human neuron system, which analyses the shape, color and movements of wind turbines.



9. Conclusion: Our next stage project needed —fusion of three elements (color, music and literature) into one -

The hydrogen society is coming. How do we depict it in literature? The earth is a planet of water: H₂O. Life was born in the ancient hydrogen sulfide abundant ocean, which was the outcome of the birth of the sun. For the future survival of you, us, animals, plants, microorganisms, and all creatures, essential sustainable energy including hydrogen needs to be produced by water. Literature should depict the inner world of our mind by fusing color, movies and music into one system in order to prepare for this historical turning point.

Modern wind turbines, with other renewable energy such as solar and biomass, prepare hydrogen society by producing hydrogen from water and hydrogen car, Fuel Cell Vehicle FCV can run by chemical reaction of Hydrogen and oxygen, emitting only water.

To depict this rapid transition, I tried to build a nine-color system in Gaia theory, which illustrates the importance of anti-global warming. According to Gaia theory, life on earth means the whole earth is life itself. With the understanding that the entire earth is life itself, which is the outcome of the physical and chemical reactions on or beneath the surface of the earth, the traditional Darwinian life vision based on competitive and survival principles should be replaced by something new and revolutionary, depicting the earth's environmental problems.

The nine-color system needs to be constructed for this ambitious aim. Gaia needs cool earth temperatures to cure her body wounded by the heat that has been produced by humans after the fossil fuel combustion since the industrial revolution.

In total, the seven colors of ocean and rivers' blue/light blue, rainforest and temperate zone forests' green, including their light green and yellow/red, the white of the seashore and clouds on the oceans and mountains as is the case of novel prize winner (2016) Bob Dylan's blowing in the wind²⁶ will be the key colors which are used when artists use the environment as eco-criticism of literature, which fuses color, music and literature into one entity.

We can write novels including colors whose color system enables us to depict our abundant feeling of the environment. If we study the theory of music a little, we will be able to compose music with the help of a computer-based composer: for instance 'Cubase' or 'Music factory' and upload to 'YouTube' or other pro/indie's (independent musician) music sites. If we cannot compose music, we may find friends in our community. If we cannot paint, we may find an excellent painter among us.

Foot notes

1 Rudolf Steiner. 1964, Arts and Their Mission, ANTHROPOSOPHIC PRESS, pp.81-82

Rudolf Steiner. 1923, The Arts and Their Mission, Rudolf Steiner Archive and e.Lib: A World-wide Presence ... for a World-wide Movement! Schmidt Number: S-5306 On-line since: 15th March, 2007 VI. Available at:

< <http://wn.rsarchive.org/Lectures/GA276/English/AP1964/19230609p01.html> >

[Accessed 5 December 2016]. This document is his lecture of June 09, 1923.

2 The Beatitudes - Vladimir Martynov can be listened in the internet.

<http://www2.human.niigata-u.ac.jp/~masami/Music/border01.htm>

[Accessed 5 December 2016].

3 <http://www2.human.niigata-u.ac.jp/~masami/Music/border01.htm>

- [Accessed 5 December 2016].
- 4 Hisashi Segawa (2013), *Endless World: Utyusen Kosumosugou no Bouken*. An adventure of Spaceship Kreios *Endless World; An adventure of Spaceship, Kreios*. Japan: Institute of Publishing culture (KDP)
 - 5 Hisashi Segawa (2013), *Mikaduki Gensoukyoku*. Fantasy music in crescent. Japan: Goodtime Press (on demand)
 - 6 Hisashi Segawa (2013), *Izuno Odoriko Kikou*. Travel novel of Izu Dancer. Japan: Institute of Publishing culture (KDP)
 - 7 Hisashi Segawa (2013), *Jikyū Jisoku Garden*. Self-sufficient garden. Japan: Institute of Publishing culture (KDP)
 - 8 Hisashi Segawa (2015), *Mikaduki Gensoukyoku Shisyū*. Fantasy in crescent -Collection of poems. Japan:greenBS
 - 9 Although we find some translations the haiku into English, I adopted Donald Lawrence Keene's translation above.
 - 10 Hisashi Segawa (2013), *Kotohimesamano Namida: Heikeno Kotonome Meisyū Kotohimesamaha Izukohe*. Koto princess of Heike, excellent Koto player in legend: Where has she gone? Japan: Institute of Publishing culture (KDP)
 - 11 Natsuki Ikezawa (2003), *Subarasiki Shinsekai*. Splendid New World. Japan: Tyuou Kouronsya
 - 12 Miguel de Cervantes Saavedra (2008), *Don Quixote De La Mancha*. Oxford World's Classics Reprint ed.
 - 13 Christopher Mirambeau (2004), *Moulin Rouge (Memoires)*. Paris: Editions Assouline
 - 14 Atsuo Nakamura (2010), *Boufuu Chitai: A Violent Wind Zone*. Tokyo: Kadokawa Syoten
 - 15 Hisashi Segawa (2015), *Isono Kaorino Nazo Satujin Jiken*. Murder of the mystery of the flavors of the ocean. Tokyo: Bungeisya
 - 16 Hisashi Segawa (2014), *Nihon Fuusya Kikou: Ayai Genpatu Tafuna Fuusya*. Wind turbines in Japan: life-threatening Genpatsu and tough wind turbines— a travelling essay after the meltdown of the Fukushima nuclear power stations— Japan: greenBS (KDP)
 - 17 [Accessed 5 December 2016]
 - 18 Hisashi Segawa (2013), *Hyper Space Journy*. Goodtime Press
 - 19 Hisashi Segawa (2015), *Tyōgen Kuukanno Tabibito*. Travelers in the super strings space. : Parade Publishers, 2015,
 - 20 Hisashi Segawa (2016), *Haha: syōwa to heisei no zanzō*. Mother : afterimages of Showa

and Heisei, v2 solution

- 21 Johann Wolfgang Von Goethe (2015), Goethe's Theory of Colour. Createspace Independent Publishing Platform
- 22 < <https://www.youtube.com/watch?v=OXFh-mYh2dQ> > [Accessed 19 December 2016]
- 23 Chicago Tribune, May 11 2015 <http://www.chicagotribune.com/suburbs/aurora-beacon-news/lifestyles/ct-nvs-turbine-paintings-st-0515-20150508-story.html> [Accessed 19 December 2016]
- 24 <https://finearts.northcentralcollege.edu/event/turbine-paintings-series-brian-ritchard-13> [Accessed 19 December 2016]
- 25 When I conducted a questionnaire survey on our students, my colleague Professor Kiyoko Ito kindly helped me make a questionnaire survey form, which was made by PCCS, conduct it on her seminarists and analyze the results. But the validity of the research results is my responsibility.
- 26 Poem of Blowin' In The Wind is seen in his official Site.
< <http://bobdylan.com/songs/blowin-wind/> > [Accessed 19 December 2016]