



Fig.1. Helixpipe

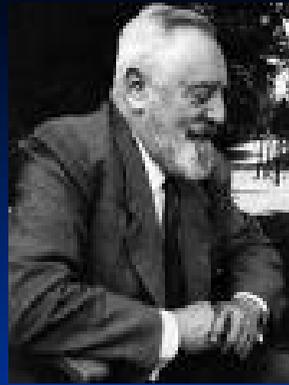


Fig.2. Victor Schaubberger



Fig.3. Helixpipe

Tributes to the Work of Victor Schaubberger (Austria 1885-1958)

with the Eyes of TRIZ
Wolfgang Sallaberger (congel, Austria)

4th TRIZ Symposium in Japan
Laforet Biwako, Moriyama, Shiga, Japan
Sept. 10 - 12, 2008



Fig.4. Helix Plow,
Schauberger



Fig.5. Repulsive actual

■ 1.Introduction: How did I come up with Schauberger ?

- I did not intend to do be or do something like Schauberger, I did not exactly know what his work was about and I did not look for that.
- After 9/11 I started thinking about an elevator or a rescue device for skyscrapers that can rescue people quickly and safely without help from outside.
- I was working in the kitchen as a chef and I did not pursue this idea, since a title or another university degree is required for carrying out R&D in Austria.
- Schauberger was a Audiodidakt, a Genius in understanding Nature, as some Composers who did their first works as kids.

1. Introduction: How did I come up with Schauberger ?

Food

- Another project with convenience food started in 2004
- and became very specific. The customers liked and ordered the product, but the distributors in Austria did not join in. Since this kind of food may not be created with conventional production lines, we are working on a prototype for this machine (after 4 years I found a company for this).
- The Base of the first mass Product is a Helix/Spiral

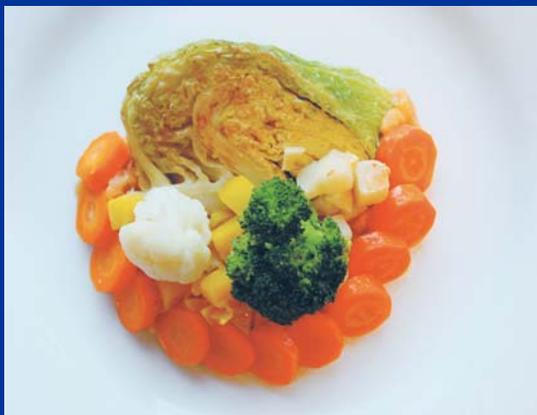


Fig.6.Vegetable Plate



Fig.7.Polenta/corn Tarte



Fig.8. Users Manual

1. Introduction: How did I come up with Schauberger ?

“Finding” the right detour at Etria Conference Frankfurt with TRIZ

- In Frankfurt I got in contact with Mr. Nakagawa for the first time. After that I have seen a propeller Engine on the Japanese TRIZ homepage.
- If you look at it, you see a Engine with 2 helixes; later in this paper you find a draft from Schauberger showing this principle of the double Helix.
- So I can say that the work of Mr. Nakagawa made me “cross the Rubicon” (= take a significant step) in order to get in contact with Schauberger’s work.
- Between 2006 and 2007 the Shaman Elie Hien told me: “You should create something to rescue people from a flying/crashing plane” (he travels 50 times a year by plane)
- First I asked myself how this might be possible, but after a while (3 months) and with the use TRIZ I created something specific - but only on paper.

2. Victor Schauberger — His biography

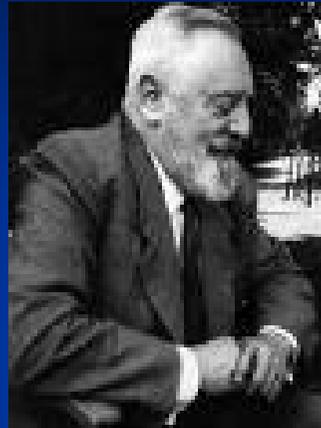


Fig.9. Victor Schauberger



Fig.10. Detail logging Flume

- Born 1885 in Austria,
- In his youth he lives in the Wood for 1 year after a confrontation with his Father.
- 1919 first job as forester,
- 1922 his first invention, a new construction of logging flumes which enabled to transport timber sticks at only 10% of the normal costs and timber which was heavier than water. Several constructions in different countries followed until 1928.

2. Victor Schauberger — His biography

- 1929 patent for a water turbine.
- 1932 patent for an apparatus to produce “precious water” which had healing effects and also included a project for fuel production with this water. However, this project was finally stopped by the Medical Association.
- 1933 the book “Our senseless work” is written by Schauberger. In this book he describes the problems which we have NOW with water, storms, agriculture and human health.
- 1934 discussion with Hitler; Schauberger is not prepared to work for him
- 1935 patent for an air turbine for the transportation of gas,
- 1937 the Hot Cold Machine melts during a unauthorized test run by Siemens

2. Victor Schauberger — His biography



Fig.11.Repulsine
actual

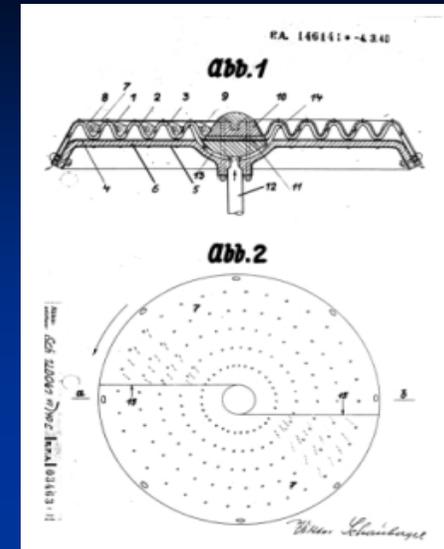


Fig.12.Plan Repulsine

- In 1941 - after an intrigue committed by the engineering society the Repulsine was confiscated by the Nazis.
- Schauberger was put in the lunatic asylum for 3 days and under permanent observation by the SS followers of that time.
- In 1943 he had to work on the Repulsine in the concentration camp Mauthausen; a Repulsine crashes down on the roof .
- At the end of the Second World War he was under observation by the allies, all machines/models and documents were confiscated, main parts thereof were transported to the US and other parts to Russia. Since Schauberger was deceived 12 times in his life, he started to make no or half plans and drawings in order to protect his work and keep it secret.

2. Victor Schaubberger—His biography

- In a letter he wrote “they give me only the broken models or prototypes” and not the working ones.
- In 1958, the year of his death,
- he spent a stay in overseas where he was forced to sign a contract to stop his work about implosion, and cede the rights of his work. He signed it to get back to Austria and 5 days after his return he died on 25th September. He was forced to leave all models and working documents behind in overseas.
- 2008 All the models have now been transported to Bad Ischl, Austria and can be seen. Mrs. Ingrid and Mr. Joerg Schaubberger, the grandson and his wife, are the administrators of the assets of Victor and Walter Schaubberger.
- At: www.pks.or.at you will find the complete and original biography of Victor and his Son Walter Schaubberger

3. Understanding Schauberger with the Eyes of TRIZ

- The wish is the father of the idea;
- Schauberger had the wish/idea to create things and systems which follow nature, since nature is a permanent creator.
- Day and night and everywhere on our planet an uncountable flow of creation is going on and this energy has been flowing and creating for millions of years.
- It depends on our energy whether we will succeed in getting connected to this energy in order to use it in our technical or other systems and it is never a question of time.
- If we take the wish as a local quality in an innovation process, it would be the number 3 because this number represents the start and the goal at the same time.

4. Helixes-Spirals-Vortex

- A Work from Schauberger called Helix/Vortexes was stored
- Closed at the Austrian Academic Society to document his Work
- In this Paper the Vortex is seen as the Asymmetric and
- “Multidimensional brother” of the Helix or Spiral
- A Helix/Vortex applies the following innovative principles
- 4. Asymmetry
- 5. Unification
- 14. the motion and part itself is round
- 15. it is more dynamic than the surrounding air
- 1. due to its dynamics it separates itself from the remaining air
- 16. higher amount of air on the surface than on ground
- 13. the wind blows vertically and not horizontally - this results in
- 8. suction
- 19. continuous action, seen from a distance its round movement looks like a sinus curve becoming a space curve.
- 20. its continuous rotation in itself
- 33. homogeneity,
- 36. phase change
- 37. thermal extension



Fig.13.



Fig.14.

4. Helixes and Spirals



Fig.15.

- A snake which swims in the water moves like a Helix but causes no harm to its surroundings - like a storm does, even though the main movements are the same.
- Helixes can be found in the case of shark skin, but the helixes are much smaller and yet strong enough to separate themselves from the remaining water so that a small but fast and powerful “atmosphere” is created around the shark skin. The water seems to be “another dimension” that generates power from the resistance, like in some Asian self-defence methods where the power of the attacker is used/transformed by the defender for his defence.
- 22. Harm is transformed into a benefit



Motion & Treatment



Fig.16.

- If we find the right motion, the resistance can be used to stabilize and reinforce the motion using less energy.
- As the example of Schaubergers Helix Pipes shows and the Plow that brought between 30% and 100% more Fruits, that is documented at the university of Linz.
- Most motions which we produce with our technical systems are pushing and pumping, this means that we are producing more resistance or that we have to use a lot of energy for these motion processes.
- The machines and the systems are complex and frequently have many moving parts, and may require a lot of maintenance.
- In nature we do not find maintenance. The more maintenance a system requires, the more it represents an “unnatural movement”
- Schauberger said “wrong movement contains the seed of death/destruction” .
- For example the Exhaust of a conventional Engine is „unhealthy“ that is ment with „the seed of death“

5. Helix Examples in nature and water



Fig.18.

Every flower/Plant comes out of a Helix Form/Motion



Fig.19.

Snakes do use Spirals to save /store Energy, like it is used in a Spring Break

5. Helix Examples in nature and water



Fig.20.



Fig.21.

The weather is using this Motion, as Water does that too even in a Wave, as it is in nearly everything it is able to get influence in many things and processes

Principles: 1 segmentation 3 local quality 4 asymmetry 5 Merging/unification
6 universality 7 nestle doll/matrijoschka..... 14 curvature/spheriodiality 15
dynamic and so on.....you will find nearly all of the inventive principles in
and with water.

5.Examples in nature and water

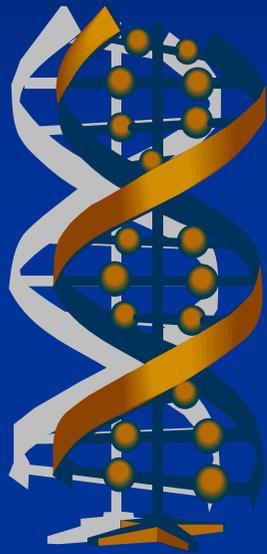


Fig.22.

Our DNA is stored
in Helixes

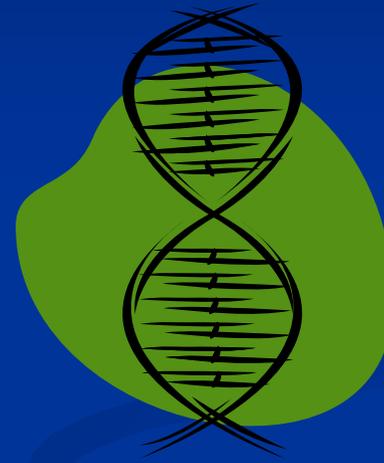


Fig.23.

2 Fish head to head do look like
a Helix

5. Examples in nature and water



Fig.24.



Fig.25.Helix Plow Schauberg

Schaubergers Plow looks similar to the skin of slower Shark Species

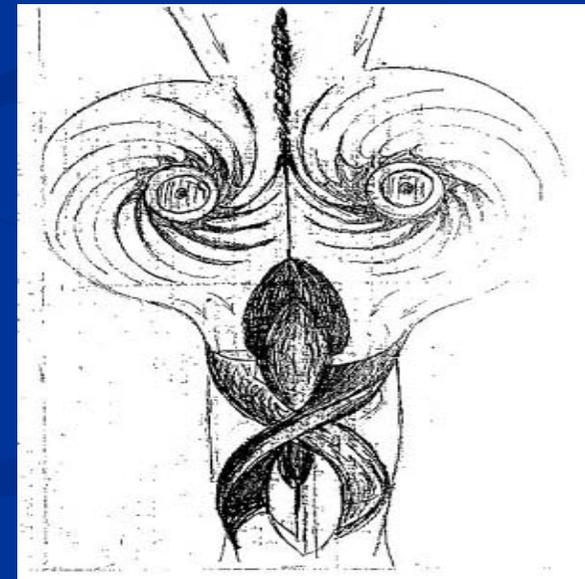
But he did not see Shark skin in his lifetime.

6. Motion & treatment: the trout engine & Shinkansen 700

- A figure from Schauberger, called the “Trout engine”
- Trout are able to stand in wild water and to escape against the stream.
- A trout can overcome waterfalls and move upwards in water which falls down. I could and cannot verify this fact, but at first glance it appears very likely that the Shinkansen 700 series uses this kind of effect in some way, roll in the Air.

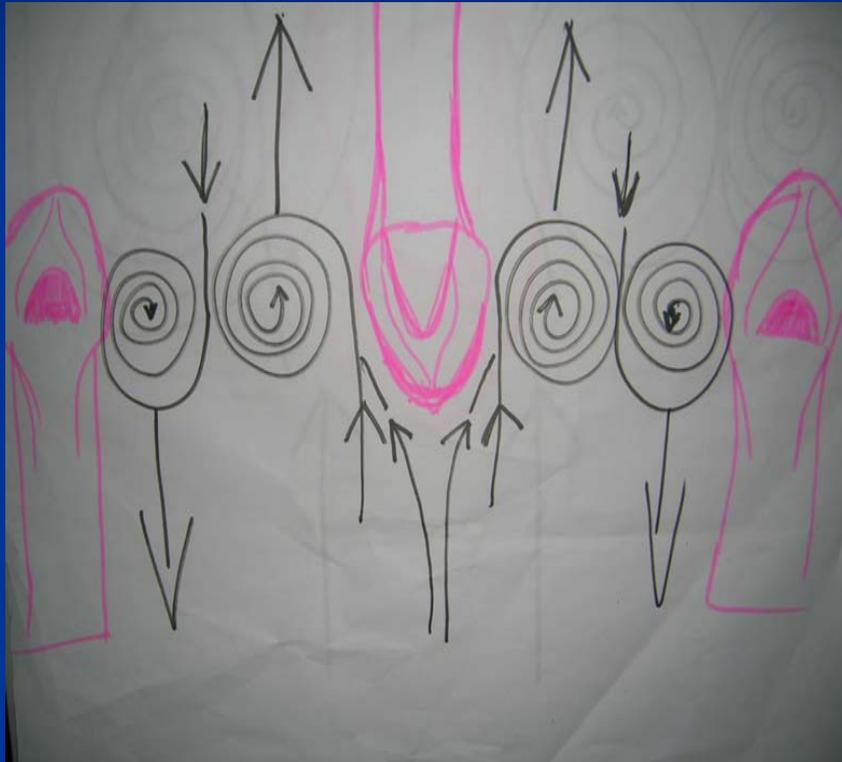


Shinkansen Trains 700/300



The Trout Engine

6. Motion & treatment



- The nose of Shinkansen 700 Helps the air to roll in into a Helix/Vortex
- pushing motion is avoided and transformed into a rolling motion /= less resistance
- Conventional Trains Do push the Air, resistance grows strong with speed

Fig.28. Air motion and Shinkansen

6. Motion & treatment

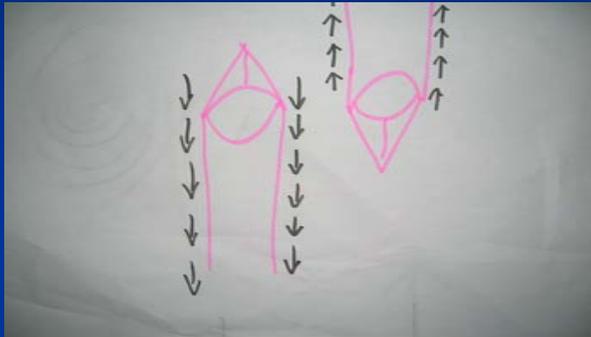


Fig.29.normal Trains

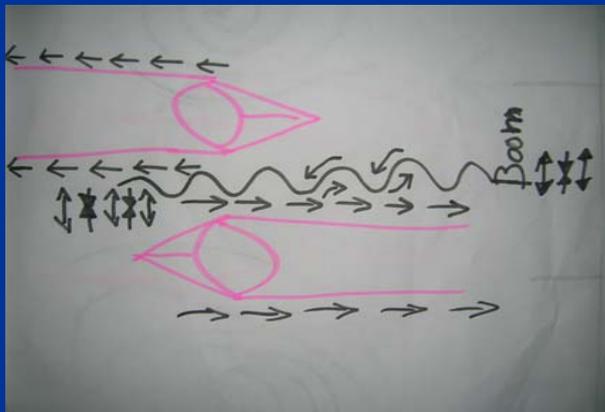


Fig.30.normal Trains and air

- These figures should show the difference of the treatment and the following motions.

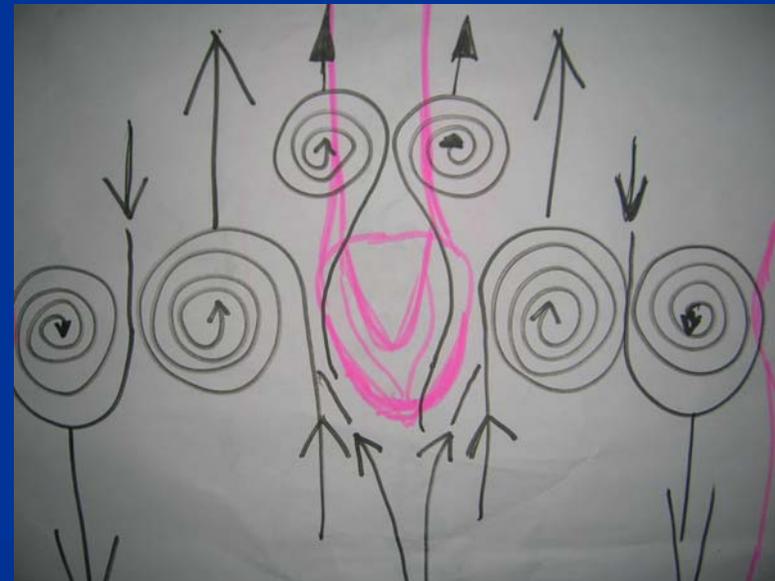


Fig.31. Shinkansen 700 and Air around it

7. Conclusion

- Natural Motion is with curves and round as our planet, if they would be straight lines the Earth would be a line maybe.
- This paper shows only a little impression about the work of Victor Schauberger, his Son Walter followed his work as his Grandson Jörg Schauberger does this in our time.
- As he had his own language he ofthen was not understood, but the more I look I can find new things like a Wind power plant that do look exactly like some Schauberger models, only the size is different $\sim 1/1000$

■ Thank You Arigatho

- For your attention
- I may also Thank Mr. Toru Nakagawa and the Japan TRIZ Society

Reference for Japanese People:

- Japanese translation of
"Hidden Nature: The Startling Insights of Victor Schauberger"
by Alick Bartholomew, Floris Books, 2003
published recently:
translated by Masao Noguchi, Nihon Kyobun-sha,
Apr. 2008.