# An insight into self-organizing processes in geology with respect to Earth expansion

### Karl-Heinz Jacob

## 1. My first encounter with earth expansion and initial doubts on "official geology"

I spent my professional life from 1961 to 2004 at the Technical University of Berlin (TUB): student (for two years elected speaker of students), tutor, assistant, research assistant, senior assistant, senior engineer, professor. I graduated with distinction on a geochemical topic (Jacob, 1974) and was constantly up to date with developments of the mining industry in Germany and all over the world.

Ott Christoph Hilgenberg personally informed me about earth expansion in the mid-sixties. Like me he was a member of the Faculty of Mining and Metallurgy and until 1976 he had his own room in the Institute of Geology which he used as a workshop for the construction of his paleo-globes. Throughout his activity Hilgenberg was patronized by Professor Werner Zeil, a full professor of geology and palaeontology at the TUB. Zeil was an Andean expert who, in his lectures on the geology of South America, railed against the newly emerging theory of plate tectonics basing his arguments on the findings made during his field work in the Chilean Andes. Zeil found no evidence sustaining plate tectonics or even subduction. However, this was not very important during the late sixties, when students in particular had other interests: they shook the arbitrariness and omnipotence of professors at the universities. But even scientists or engineers at the TUB were hardly interested in earth expansion or plate tectonics either. We were all quite indifferent to a possible expansion of the earth. Until about the end of the 20th century everyone was allowed to have his own ideas about the formation of folded mountains without having to fear any discrimination.

However, during the early 1970s, a wall map was installed as a blackboard in a lecture hall of the TUB, which deeply impressed me and which led to numerous discussions among students and professors. The map showed the Atlantic Ocean floor. It had been published by the National Geographic Society and is based on drilling data and bathymetric studies performed by Bruce C. Heezen and Marie Tharp of the Lamont-Geological Observatory. We all saw in the enormous undersea mountain ridge with its striking longitudinal and transverse faults possible evidence for the correctness of Hilgenberg's considerations on an expanding globe. Probably Hilgenberg acquired the chart himself and hung it up, because he was still working in the same building of the TUB at that time. But in retrospect, nobody really took the matter seriously. However, it remained in my subconscious.

At the beginning of the 1970s, the well-known Swiss volcanologist Professor Alfred Rittmann came to Berlin as a visiting professor. Following his lecture series, a large volcanological excursion to Italy was organized for students and professors from Berlin. I took part in it as a research assistant and my Italian wife Lucilla as a logistics assistant. We climbed all the important volcanoes of Italy such as Vesuvius, Vulcano, Stromboli and, particularly intensively and over several days and nights, Etna in Sicily, which was then in an active phase.

During the field trips the German professors often uttered opinions on volcanism that were different to those of the Italian scientists from the Volcanological Institute in Catania who accompanied us. The differences concerned origins of the lava and the involvement of upper mantle, lower mantle, convection, temperatures, viscosity. The Italians had personal experience of the volcano that the Germans lacked, so it was they who were always urging us to leave the vicinity.

And so we barely escaped a catastrophe on Etna because of the carelessness and know-it-all attitude of the Germans. We stayed in a refuge on Etna and spent a whole night in the snow and ice at 3000 metres altitude, fascinated by the open gaps next to us as the glowing red viscous lava gushed out. Some Sicilians present took lava from the calmly flowing streams with iron tongs, filling moulds to form small vessels as souvenirs for tourists. All 30 of us enjoyed the natural spectacle very much. The repeated warnings of the Italians to turn back because of danger were not heeded. Suddenly the somewhat higher situated north-east crater became active and threw red-hot

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cinders like firework rockets into the night sky. In the beginning the lava was red-hot and easily visible, but then it cooled down during its parabolic flight and turned black. The now invisible bombs rained down close to us like hot cow patties. Panic was spreading and we ran down the mountain in fear, stumbling, falling and screaming loudly. My wife and I stayed together and suddenly we were standing in front of a red-hot fire mouth of about 5 metres diameter. It was a circular hole, into which we stared in fear for only one moment, until - without any warning - a huge explosion occurred, which made us fear for the worst and made us panic again. Later we learned that it was caused by escaping gases reaching supersonic velocity. None of the participants were seriously injured. Nevertheless, it was a very dangerous experience due to our carelessness. We had experienced volcanism up close without understanding its mechanism. In the following days the excursion led us to the permanently active Stromboli volcano north of Etna. And again the eagerness for knowledge led to reckless indiscipline. One of the participants wanted to stand very close and too long at the crater rim with his stopwatch. And again it exploded unexpectedly so he paid for his curiosity with wounds on his body, but mostly got away with the horror, like on Etna. In the following year as we learned later in Berlin - the leader of a French student excursion to Stromboli was fatally hit by falling lava or litter. All geologists and nature lovers seem to be ignorant about volcanism and they suffer a lot from it. Some of them therefore want to overcome this condition through personal courage. Frequently they risk their lives in the process.

The German geology professors at the time were of the opinion that the Italian volcanoes were independent local structures that had no connection with each other. They were expected to each have there own magma chamber situated at different depths. There was no serious thought about a possible expansion of the lithosphere or of natural electricity phenomena. Anyhow, in my subconscious, earthquakes, volcanic activity, earth expansion and also electricity were always connected. In later years I experienced minor earthquakes in Italy and active volcanism on Java, in South America and in Africa, whereby my geological worldview became more and more consolidated and I distanced myself from official geology with growing scepticism.

To me the volcano excursion was a key experience that has raised doubts about the solidity of the earth sciences. It was a wake-up call to think for oneself and always to question, doubt, examine. I started by reading old textbooks on geognosy, geology, etc. because I was sure that a great rethinking was needed.

### 2. Scientific events on earth expansion, attended and partly organized by me

At the TUB earth expansion fell completely into oblivion after the death of Hilgenberg in 1976. Things stood somewhat better in Bavaria. Here, the director of an iron ore mine, Johannes Pfeufer, was a convinced adherent of earth expansion and succeeded in publishing a book with the renowned publisher Glückauf, dealing with orogeny seen as a consequence of earth expansion (Pfeufer, 1981). (Unfortunately, this book is characterized by Pfeufer's very obstinate insights and therefore not very convincing for me). Pfeufer was also a lecturer in applied geology at the University of Erlangen near the city of Nuremberg. A colloquium in his honour was held there in 1995, where I presented a lecture about "The importance of electricity in geology". Klaus Vogel from Werdau, Saxony was allowed to make a poster presentation in the corridor. With his transparent globes illustrating the expansion of the earth he attracted a great deal of attention among the numerous participants that came from all over reunited Germany. They wanted to learn more from him and urged him into the lecture hall, which was only hesitantly allowed by the organizers. And thus, after a long time the theory of earth expansion was again discussed in public inside a university. After the meeting in Erlangen, I spontaneously invited Klaus to give a guest lecture at the TUB, an invitation which he honoured a few months later at the Faculty of Mining and Earth Sciences. His exposition was followed with scepticism, but benevolently. At Klaus's suggestion the expansionists from Wroclaw, Poland, Stefan Cwojdziński1 and Jan Koziar<sup>2</sup> also came to the TUB for lectures. When, during a second visit, Koziar illustrated his criticism of plate tectonics with caricatures, there was an angry protest in the hall from at least one participant. As a consequence the lecture ended in a chilly atmosphere. To this day I blame myself for that awful event. Because it was the onset of a strong polarization at my faculty, manifest by ostentatious "scientific" ideology, stubborn muteness and tending towards personal hostility.

In the year 2000 a request from INGV (Istituto Nazionale di Geofisica e Vulcanologia) in Rome came to the TUB asking if any event was planned in honour of Ott Christoph Hilgenberg (1896-1976) on the 25-year anniversary of his death. The Italians considered that he and his important work *"Vom Wachsenden Erdball,* Berlin 1933" ("About expanding Earth, Berlin 1933") should be remembered with a tribute. No one wanted to really give an answer to this request, as the

<sup>&</sup>lt;sup>1</sup> See also the chapter by Stefan Cwojdziñski.

<sup>&</sup>lt;sup>2</sup> See also the chapter by Jan Koziar.

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geology professors were reluctant to discuss the topic of earth expansion. I took that opportunity and was successful in inspiring the director of the Lower Saxony Mining Museum from Lautenthal, Harz to organize a "Montanistic Colloquium" in honour of Ott Christoph Hilgenberg.

"Earth expansion – a misunderstood geoscientific theory?" was the motto of the Lauthenthal Colloquium 2001, where Klaus Vogel, Helge Hilgenberg and Giancarlo Scalera were the main speakers. "*New Ideas and Facts in Expanding Earth*" were presented by Scalera and followed with great interest by the audience. Ott Christoph Hilgenberg's daughter Helge reported on her father's life and work whereas Klaus Vogel showed and explained his transparent growing globe models. The Prime Minister of Lower Saxony, Dietmar Gabriel, sent a greeting and wished the event every success.

Suddenly the subject of earth expansion had reappeared out of oblivion not the least thanks to the moderation taken over by the meritorious Prof. Max Schwab (Geology) from the University of Halle, Saale and the activity of Giancarlo Scalera from the INGV Rome.

Further events dealing with earth expansion followed: the International Symposium "New Concepts in Global Tectonics" held in 2002 at Otero Junior College, La Junta, Colorado/USA; the colloquium at the Mining and Industrial Museum Theuern, Bavaria (2003; Figs 1-2) and the colloquium held at the University of Urbino under the patronage of Prof. Forese Carlo Wezel immediately following the 32nd International Geological Congress at Firenze, Italy 2004. All events were reported by me in German geoscientific journals, but this had no effect on the basic attitude of geoscientists at



Fig 1. The lecturers at the Earth Expansion Colloquium held in Theuern/Bavaria in May, 2003. From left: Wolf, Nentwig, Koziar, Jacob, Meyl, Scalera, Cwojdziński, Rajlich, Kallenbach, Luckert, Schwab, Gottfried, Vogel, Fritsch.



Fig 2. The author (middle) discussing with Eva-Maria and Klaus Vogel during a break at the Theuern Colloquium in the park of the Mining and Industrial Museum, the host of the colloquium, May 2003.

German universities. Earth expansion remained officially taboo. Under the title "Why expanding Earth? A book in honour of Ott Christoph Hilgenberg" (2003) Giancarlo Scalera published the papers of numerous lectures presented at the Lautenthal Colloquium, as well as the list "Bibliographical sources for the expanding Earth", in which more than 1000 printed titles are statistically recorded, titles that had almost all disappeared from libraries.

In 2008 a documentary appeared on German ARTE, ZDF TV with the title "Und sie bewegt sich doch" ("And yet it moves"). In it the "Globemaker Klaus Vogel" from Werdau showed his transparent paleoglobes and the specialist in physical fields Prof. Konstantin Meyl from Furtwangen University explained his new field theory (an extension of Maxwell's theory), which is based on his concept of "neutrino power". Moreover he assumed Earth's expansion via the increase in the Earth's mass by neutrino capture. This theory of Meyl has been controversially disputed for the last 20 years and is still overheating minds. It has something to do with free energy and could gain - provided experiments proof positive - world political significance: Free energy, a pipe dream or reality?

A highlight of international importance regarding "The Earth Expansion Evidence" was the 37th Interdisciplinary Workshop "Ettore Majorana" held in Erice, Italy, 2011. Conveners were: Giancarlo Scalera, Stefan Cwojdziñski and Enzo Boschi. I tried to send the volume with papers presented at the workshop to the director of the Berlin Natural History Museum but it was intercepted by his staff "so as not to cause any disturbances".

Particularly during the last two decades I have had personal contacts with numerous earth expansionists throughout the world or communicated with them via the Internet or at workshops. Unfortunately, I had no English lessons at school in the former GDR,

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Fig 3. Post-colloquium "expansionists" debating at Klaus Vogel's home in Werdau, Saxony (26.05.2003). From left: Jan Koziar (Poland), Klaus Vogel (Saxony), Karl Luckert (USA) and me (Berlin).

a fact that has inhibited my communication. The exchange of ideas with colleagues in English is still quite tedious. However, I was helpful to them as best I could in printing and spreading their contributions referring to earth expansion. The scientific colloquia on earth expansion in Lautenthal (2001) and Theuern (2003) were an acknowledged success owing in part to my contribution and initiative as well as to my position at the TUB. I strengthened my contacts with Giancarlo Scalera, Klaus Vogel and Helge Hilgenberg<sup>1</sup>, which developed into personal friendships. After the Theuern session there was also a post-colloquium meeting of some of the participants at Klaus Vogel's home, leading to further fruitful discussions (Fig 3). Unfortunately, a few years after the Erice workshop Klaus became ill and died in 2015. But meetings, discussions and PowerPoint presentations are still going on, for instance in 2014 at the Manuela & Heiner Studt Studio in Hamburg (Fig. 4) or in Berlin, at Helge Hilgenberg's home (Fig. 5).

## 3. Thoughts on orogeny and Earth expansion

In spring 2009 I sent Klaus Vogel a letter summarising my thoughts on orogeny and earth expansion. In his reply, he returned this summary to me with his comments. An excerpt from my letter with his marginal notes reproduced as footnotes is presented below as a means of expounding our views on the formation of folded mountains on the basis of the theory of earth expansion. Some figures taken to illustrate my laboratory experiments are reproduced from Jacob (2010).

<sup>&</sup>lt;sup>1</sup> Helge passed away at the end of 2019 or in the first days of 2020.



Fig 4. In 2014 I gave a presentation at the Manuela & Heiner Studt Studios in Hamburg.

Fig 5. Remembering Ott Christoph Hilgenberg and diving into his archive at his daughter's home in Berlin (2016). From left to right: Heiner Studt (initiator of the German internet site on Growing Earth http://www.wachsendeerde.de/index.html), Helge Hilgenberg, and the author.



Karl-Heinz Jacob Berlin, March 2009

#### Earth expansion<sup>1</sup>

Earth expansion means increase in volume and probably also in mass of the earth's body, processes whose causes are not well understood. The mere fact that all continents of today's Earth can be fitted together to form a closed granite envelope (of the primordial Earth) on a globe of only about 50% diameter, can be seen as evidence of an originally smaller Earth.<sup>2</sup> Directly linked to the earth's expansion are tectonic events such as earthquakes, seaquakes, volcanism, and the formation of rifts and deep-sea trenches. Even the generation of oceanic transform faults can be best explained without contradictions by the radially operating earth expansion.<sup>3</sup> By an evaluation of the ever growing number of

<sup>&</sup>lt;sup>1</sup> I'd prefer Earth growth.

<sup>&</sup>lt;sup>2</sup> The dissection of the primordial crust is an enduring process. It began in the Precambrian with the fragmentation of the old shields and platforms at about 40% diameter. At about 55% seafloor spreading began at the forming mid-ocean ridges (expansion gaps). This process continues until today by the oceanic expansion.

<sup>&</sup>lt;sup>3</sup> They permit compensating movements to maintain the shape of the sphere.

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NASA measurements at global fixed points, it has been recently recognized that the lithosphere has an oscillating behaviour which permits to measure locally limited subductions or expansions. Global-ring computations indicate annual growth rates in the range between 48 and 120 mm, averaging 80 mm per year. Numerous research projects are underway worldwide to find and validate subduction zones, but there is clear evidence of deception. Many researchers involved in these projects are currently preventing the distribution of information on Earth expansion and claim validity for plate tectonics only.

## The formation of folded mountains by involvement of self-organizing processes

According to my concept elaborated since 1996 (Fig. 6), mountain folding is the result of complex dynamic processes involving:

1. bulging (or arcogenesis) of the earth's surface

2. reduction of the curvature angle of the surface

3. tectonic fractures due to collapse of the surface<sup>1</sup>

4. heat flow from beneath, causing TEC (thermo-electro-chemical) processes, which on their part are inducing  $\rightarrow$ 

5.  $\rightarrow$  diagenetic and metamorphic processes with texture generation due to the predominant state of thermodynamic non-equilibrium (self-organization)<sup>2</sup>

6. Classic exogenous dynamics of weathering, gravitation, etc.

Oh! I think it's becoming much too complicated, so let's try it otherwise:

Folded mountains are called so because the layers in the mountains look like a tablecloth that has been crumpled by pushing it with the hands from the edges towards the middle. For the formation of mountains, current theory therefore requires pushing forces, e.g. two continents drifting against each other. The next step: continental plates ? plate tectonics. The strongest arguments of plate tectonics are therefore the mountains, whose formation must be explained by geology. Where would we be if geology could not explain mountains!?! However, there is still no plausible explanation, it simply does not work.

Prior to plate tectonics, the contraction theory was maintained, which tried to explain the mountains by the shrinking of the earth due to cooling. A baked apple with its shriveled surface served as a pictorial model for this.<sup>3</sup>

1 + tensile stresses in the crust, thus clearing the way for points 3 - 6.

<sup>2</sup> ... and mountain building = uplift from below or, according to Goethe's Faust IIseismology:

Wie stünden eure Berge droben im prächtig reinen Ätherblau, hätt ich sie nicht emporgehoben, zu malerisch entzückter Schau. (How would your mountains stand above in splendidly pure ether blue, if I would not have lifted them, to picturesque delightful show.)

<sup>3</sup> Shrinkage from cooling: The crust is directly exposed to the chill of space. This is where the shrinking begins, while the compact interior of the earth keeps the



Fig 6. Cartoon showing the four stages of mountain building. 1. normal stratification in the upper part of the planet; 2. Upbulge of the lithosphere above a rising pluton (arcogenesis); 3. TEC processes in the lithosphere triggered by the thermodynamic imbalance that resulted from the high temperature difference (T1 > T2) between the pluton and the lithosphere ; 4. weathering in combination with gravity forces.

Until a few decades ago, every geologist had his or her own idea of mountain building. This is no longer tolerated today. The dogma of mountain building by plate tectonics prevails on an international level! Anyone who thinks differently and states it out is threatened with professional marginalization. However, the appearance of mountain building due to plate tectonics is deceptive. The folds in the mountains are not comparable to tablecloth folds. The folds were not caused by the opposing forces of clashing plates. Today's "valid" theory of mountain building is an emergency solution revealing ignorance of the true (physio-chemical) relationships and of experimental findings.

Mountain folds develop in a different mode than currently assumed. They are internal shifts of rock material to banded, often broken or wavy segregations. This has remained largely unknown up to now, but nevertheless can be assumed with a probability close to certainty and can be fairly explained, as done for instance by the 1976 Nobel Prize Winner for Chemistry, Ilya Prigogine, a well-known researcher of textures. In accordance with these new insights:

° mountains are not primarily created by gravity due to mechanical or tectonic forces; they are formed at weak points of the earth by upward bulging (in Russian: arcogenesis) caused by magma pressure from beneath;

° concomitantly the earth is flattening due to expansion;

° in the subsurface a horizontal banding within rock piles takes place due to diffuse material transport above the bulge, caused specifically at this location by the high heat flow generated by the magma flux rising from the mantle.<sup>1</sup>

Material diffusion and rearrangement by self-organization into mineral bands, layers, folds (!) are new findings, which have been reported for more heat for the longest time. At the surface (interface) cracks must appear instead of folds. The comparison with the baked apple is completely wrong. The wrinkles are caused by the stiff peel, while underneath water content is boiled out, thus creating a volume deficit.

<sup>1</sup> Cycle: along extension fractures thinning, collapse and sedimentation takes place (geosynclinal stage). Further expansion results in uplift by the earth's internal forces, combined with processes of self-organization, which probably concentrate at the fractures.

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Fig 7. Synergistic factors (left) that influence selforganization processes. Progress of a Liesegang experiment (right) marked at 20 minutes, 2 hours and 2 days after beginning.

than 20 years, among others by the Jacob working group at the Technical University of Berlin (Fig. 7). The findings were included in modern reference books of the 1990s (e.g. Jacob et al., 1994; Krug et al., 1994; Walther et al., 1999). There are also several dissertations on this topic by members of this group. In GEO issue 4, 1993 the process was described as a New Image of the Earth.

Folded mineral structures are thus created by complex processes that run in a strongly synergistic way, also or even primarily driven by energy fronts. These are activated by conversion of thermal energy into electrical energy which further initiates ion dissolution, transport, precipitation and rearrangement of elements from the surrounding rock or from the ground into new ordered structures (metamorphosis). These often have a banded appearance and can thus look very similar to bedded sediments produced by gravity (Fig. 8-9). Lack of information referring to such processes has so far led to a profound confusion in the interpretation of structures. This may be considered a century-mistake. Layered geological formations - i.e. stratified mineral and rock layers - could have formed without doubt by deposition due to gravity (in the gravitational



Fig 8. Comparison between experimentally created Liesegang bands (left of the pictures) and natural textures in rocks that are most probably due to the same process: A. Zebra fluorite; B. Paesina rock from Toscana, Italy.



Fig 9. Banded colloform textures obtained experimentally (A. top left; B. bottom left) are almost identical to natural textures (A. Galena-sphalerite ore from Kalusz/Poland; B. Banded salt from the Werra Succession).

field), as is conventionally accepted. But they could likewise owe their origin as mineral bands or layers due to dissolution-redeposition processes taking place under the control of electromagnetic fields.

#### To conclude:

Many banded rocks are most likely not formed by primary mechanical deposition, but secondarily by electromagnetically induced precipitation fronts of diffusing ions. In the experiment, this happens across the energy flow, which advances front-like. In nature the energy can be represented by a thermic front or an electric flow, most likely by both of them. It is known for 180 years as the thermoelectric or Seebeck effect (1826), which has not yet been considered relevant for geology, much alike the Thomson effect (1854). In general, electricity as a structure-forming force in geology has been only considered by outsiders but was not systematically studied, and far from generally acknowledged, notwithstanding the prediction made by the English naturalist Joseph Priestley in 1767 in his standard work on electricity.

#### To round up the picture:

The structure-forming forces of the electromagnetically induced selforganization of diffusing elements in the lithosphere and the flattening of the earth's curvature due to earth's expansion near the surface renders the formation of folded mountains possible. Furthermore, weathering processes are still taking effect today.

The forces of uplift and erosion of the mountains compete with each other and can presumably also vary cyclically.

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This is why the Alps, for example, are so sharp-edged, continue to grow today and in the future, and are probably much younger than is currently assumed. K.-H. Jacob<sup>1</sup>

#### 4. Final remarks

I am convinced that earth expansion is real. I am uncertain whether this process goes on continuously or is a pulsating one and whether it takes place with or without mass gain. However, I tend to believe that the earth's mass increases via solar energy, as O.C. Hilgenberg, Klaus Vogel, Konstantin Meyl and others assume. Today's physicists vehemently reject this assumption.

My work as a mining engineer and economic geologist at a technical University has taken me to regions with important ore deposits all around the world for more than 40 years, providing me with important professional knowledge and insights. During the years I have increasingly learned that in general geoscientists are burdened with a historically grown scientific mortgage: I am referring particularly to the conservative and traditional work practices as well as to the handed-down theories on the genesis of rock textures and more generally on the basics of geology, the infallibility of which today nobody doubts or dares to doubt or even criticise.

All these principles were developed centuries ago and passed on over generations. Later findings in other disciplines, like electricity effects, colloidal processes, boundary layer phenomena or selforganisation of ionic elements under thermodynamic non-equilibrium conditions have not been taken into account in geology until today. This is a big shortcoming. The negative consequences are immense and seem almost insurmountable. In my opinion, it's high time for a thorough revision of geological thinking as for an upgrading of the training of young geoscientists at universities. Experience shows that the old are generally not open to innovations. Disciplines such as thermodynamics, electrochemistry, colloid chemistry and others should be integrated into the training of the younger generation of geologists.

In 1984 the geochemist Peter Ortoleva reported on characteristic structures in rocks: "The evidence is growing that many of these repetitive patterns result not from imposed periodicity (such as the seasonal variations of sedimentary layering) but are the result of self-organization processes." In 1987 the physical chemist and Nobel Prize winner Ilya Prigogine together with his collaborator

<sup>&</sup>lt;sup>1</sup> I subscribe gladly, Klaus

strengthened this fundamental insight by writing: "Applying ideas of 'non-equilibrium physics' to geology will have a profound influence on the interpretation of numerous geological depositions" (Nicolis & Prigogine, 1987). In 2010 I published the results of 20 years of experimental structural research under conditions of thermodynamic non-equilibrium in the German "Journal of Geological Sciences" (ZGW), with the title: "*About self-organization and its importance to geology*" (Jacob, 2010). The reaction or feedback registered: zero. By the way, despite the fact that there were no objections, no one was willing to change his mind and to express his determination to do something to replace outdated theories and to introduce working methods in concert with the updated knowledge coming from the disciplines mentioned above.

In Erice 2011 I gave the lecture "Electric field forces and selforganization. From common concepts to new insights" (Jacob & Dietrich, 2012). It plausibly ascertains that folded mountains do not require plate tectonics for their formation, but may instead be imagined as synergistic self-organization processes taking place under the combined action of electric/electromagnetic and gravitational fields. I consider that the departure from the strongly-defended idea that mountains are linked to crustal compression, gives good reasons to admit that the earth is really expanding.

## About the Contributor



**Karl-Heinz Jacob** was born in 1940 in Halle/Saale (Germany). In 1959, he moved from the GDR to West Berlin, where he studied mining engineering from 1961 to 1967 at the Technical University (TU) Berlin. Before and during the studies he worked as a handyman in underground ore and coal mines and took part in mining excursions to France, England and Italy. After

studying he started his career as a prospector at a copper mine in Norway. In 1974 he received his doctorate summa cum laude from the Institute of Ore Research and Economic Geology at the TU Berlin on a topic regarding the distribution of rare earth elements in fluorspar deposits. From 1972 to 2004 he held the professorship for mineral deposits and raw materials research at the same institute.

His projects on four continents focused on small-scale mining, field methods for the evaluation of ore deposits, applied radiometry and since 1988 - experimental research on self-organization processes and texture forming in rocks under the influence of low-frequency electric fields.

K.-H. Jacob lives together with his wife Lucilla in Berlin.

This essay was first published as a chapter in the 2020 book, *The Hidden History of Earth Expansion*, which is widely available from good bookshops in both Hardback and Paperback editions, as well as a Google eBook.

The *Hidden History of Earth Expansion* presents the personal histories of some of the most well-known researchers into Earth expansion in 14 original essays. In addition to furnishing us with their personal histories, as they strived to explore the seemingly overwhelming evidence for confirmation of Earth expansion, the authors' highlight areas where further research is required.

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