

# Programme of Global Scaling Training

at the Global Scaling Research Institute GmbH in memoriam Leonhard Euler  
Lipowsky Strasse 8, 81373 Munich, Germany

Education year 2010

From 2010 we start an advanced form of education, in which the learning process will be connected to particular projects. We await a large number of participants who want to gain their knowledge with a constant direct relation to reality. The new project education has a great future and its opportunities are unlimited like Global Scaling and Universe themselves.

The list of our education topics is made according to the intended work groups. But you can work out your ideas and create your own project as well.

Please send us your applications per E-Mail: [info@globalscaling.de](mailto:info@globalscaling.de)

## Apprenticeship

All lectures and the complete education documents will be available via the E-Learning-System. That means, that you will be able to take part in the lectures online via access to E-Learning. Each semester will take place 2 – 3 weekend-seminars. The participation in these seminars is duty for all trainees.

**The first weekend-seminar starts on May, 8<sup>th</sup>, 10 a.m. and will be finished on May, 9<sup>th</sup>, 4 p.m.  
Place: Lipowskystr. 8, 81373 München**

During the first term a general programme is provided for all project groups. The lectures are focused on the science history from the point of view of Global Scaling. You will find out important information, that is helpful for understanding the Global Scaling areas and for building-up of the basic knowledge about the general theory of Global Scaling. The lectures are important for the general education. You will receive individual tasks which have to be fulfilled, while their fulfilment is required for the participation in the education course.

During the **second term** the training will be arranged in various specializations, it means that after completion of the first term you can choose some course.

Duration: 4 semesters

1<sup>st</sup> and 3<sup>rd</sup> semester: March - August

2<sup>nd</sup> and 4<sup>th</sup> semester: September – February

You can take several courses at once.

Specialization courses begin from the 2<sup>nd</sup> semester.

# Form of education and costs

## A) General training:

Attending of all lectures, e-learning, 2 or 3 weekend-seminars per term, minimal duration of training is one semester; certificate of completion of each semester, semester paper at the end of each semester.

Training cost (per term): 1900,-€.

Changing for project education is possible. Please note the latest changes!

## B) Project education:

Participation in one or several projects, attending all the lectures, e-learning, 2 or 3 weekend-seminars pro semester, minimal duration of training is one semester; certificate of completion of each semester, description of the project work, registration in the Investment Catalogue.

### Investment Catalogue:

Detailed description of all the works done by the project group, the level of the project works achieved, portfolios of every participant of the project group, range of tasks and evaluation of the personal contribution, that you can use for career development or applying for terminal application. The Investment catalogue provides also scientific principles and technical know-how of the projects. Each Participant can receive an extract from the Investment catalogue of his project group after completion of the project training.

### The status of the project groups and costs:

Education costs per semester depend on the status of the project works at the beginning of the training.

**Project group level 0:** 1800,-€ / term

Beginning: new project group, the project is in its initial stage.

**Project group level 1:** 2500,-€/term

Beginning: the project is in development, products can be developed and the work is likely to be successful.

**Project group level 2:** 3200,-€ / term

Beginning: the project group is on the progressive stage that will lead to marketing.

Training expenses can be regarded as investment in your future. If the work of the group is successful from the financial point of view, the training costs will be partly or fully refunded.

After successful course completion the participants will get the following opportunities:

1. applying for a position with some company for implementation of further projects
2. profit participation right, provided in the contract
3. support (licenses, contracts, patents etc.) for organisation of own business

Participation in several project is possible. Please note the latest changes!

## **FAQs about education:**

*Why the education fees for the first term are different?*

We reduced the fees for the project education in the first term as a special offer for newcomers. It concerns the project groups of level 0, which were newly organized and are in their initial stage.

*What should I pay attention to, if I start a general training course and change later for project education programme?*

In this case you are required to pay the difference between the fees for the two courses. The difference depends on the project group level.

*What is the difference between educational courses from the point of view of their content?*

During the general training you will gain the necessary basic knowledge. Other courses include special parts dedicated to projects and specializations, as well as obligatory practical works.

# Lectures on the Global Scaling Theory

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Global Scaling covers all scientific and social fields, and it will influence them greatly in the future. It is scientifically proved, that there is no aspect of our existence that would not be under the influence of global rhythms. This knowledge leads us to an absolutely new understanding of the Nature and our history.

Scaling is one of the characteristic features of all structures and processes in the Nature. The Global Scaling Theory gives us new knowledges and experiences, and answers the question, why the structures and processes are fractal and what the factor of the global logarithmic scaling is.

Oscillation is the most energetically efficient movement. That's why all matter oscillates – not only each atom, but also the Solar System and our galaxy. Light is a spreading oscillation, and of course the cells and organs of our body oscillate as well.

Based on their energy efficiency, oscillation processes determine the common structure of matter in all dimensions – from atoms to galaxies.

Natural oscillations of matter are the most important structure-forming factors in the Universe.

For this reason there arise fractal proportions in the Nature. Logarithmic fractal distribution of matter is an evident effect of the oscillation processes in space and time scales.

Global Scaling is a fundamental of the new scientific vision of the world, the center of which is musical harmony of the Universe and conscious creativity of life. Education in Global Scaling will provide you with natural harmonic knowledge in direct relation to reality.

Programme of lectures in Global Scaling Theory:

## **Basics of Global Scaling:**

- Course I: number theory and set theory
- Course II: arithmetic and analysis
- Course III: symmetry and algebra
- Course IV: fractal geometry
- Course V: theory of probability and statistics
- Course VI: theory of systems and cybernetics
- Course VII: measurement and data evaluation

## **Fractal mathematics of processes:**

- Part I: fractal oscillations and waves
- Part II: fractal thermodynamics
- Part III: fractal scales of the quantum physics
- Part IV: astrophysical scales and theory of gravitation
- Part V: fractal dimension of time and origination of time

### **Fractal mathematics of matter:**

Part I: physical fractals of chemistry

Part II: fractal structures of the atom

Part III: fractal symmetries of crystals

### **Fractal biomathematics:**

Part I: harmonical morphogenesis of the Nature

Part II: evolutionary structures in biology

Part III: harmonical genetics as the basic body structure

### **Technical sciences:**

Part I. Global Scaling in engineering

Part II: time fractals in manufacturing

Part III: fractal architecture and Global Scaling in building

Part IV: fractal levels of the electrical engineering and electronics

Part V: fractal logic and artificial multilevel-intelligence

### **Fractal economic science:**

Part I – fractal structure of the business-geography

Part II – Global Scaling in finance and investment

Part III – quantity and price regulation

Part IV: personal- and service management

### **Global Scaling in arts:**

Part I – harmony in the theory and history of music

Part II – multilevel design and harmony of forms

### **Social sciences:**

Part I – fractal demography and world history

Part II – geo-urban planning based on the fractals of Nature

### **Human Scaling:**

Part I: basic structures of a human being

Part II: harmonical structural transitions

Part III: practical work at different levels

# Topics for participation in projects and in related education

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## **Information technology**

Let's turn to absolutely new dimensions of our world, where the information transmission is carried out in the most optimal way by the Nature itself! By implementing the Global-Scaling-based communication technology we will discover incredible opportunities for social development in the new millennium. We will overcome the electric smog and the problems of conventional technics. The dimensions of the communication and information transmission are getting extended greatly according to requirements of time.

Application:

The new method of information transmission without any limits in quantity and quality, as well as without any time limitations.

- New scanning technology for applying in medicine and technics
- New services based on the Global Scaling communication technology
- Data security

## **Artificial intelligence and programming based on Global Scaling**

Absolutely new approach in applying systems with artificial intelligence for solving various tasks. Developing of artificial intelligence based on the model of Nature as basis for programming and hardware development.

Application:

- New methods of saving information
- New conceptions of media
- New compression algorithms

## **Transportation and logistic**

New transportation technologies, new engines and optimization of transportation and logistic systems.

The latest achievements of Global Scaling research make it possible to create transportation systems of the future, that will exceed in their quality all thinkable inventions of science fiction. That concerns engine systems as well as the principle of moving in space, up to interplanetary connection.

The development of logistic and transportation systems based on the Global Scaling methods opens opportunities for efficient use of the existing resources and economical development of the resources.

### **Health**

Improving health and life with the help of Global Scaling. The most efficient systems of health improving and ergonomic things made according to the method of Global Scaling help to create an excellent atmosphere – Great Style.

Application:

- Development of medical equipment
- Development of diagnosis and prevention systems
- Human Scaling is an universal knowledge about all human beings.

### **Design and Architecture**

Global Scaling for creating geo-urban harmony with Nature.

- Projecting and developing of buildings, bridges and other constructions using Global Scaling for harmonization of urban processes
- Global-Scaling-based projecting and building of towns and cities according to the Great Style

### **Energy**

- New technologies of energy production and supply
- Developing systems for production of energy on the basis of proton resonance

### **Nanotechnologies**

- Safe methods of building new matter structures
- Developing methods for evaluation of physical and chemical characteristics of nanostructures
- Developing method for risk analysis of influence of nanostructures on the human body

### **Culture, arts and education**

New forms of information exchange, creative work and education.

- Creating artworks according to the principles of Global Scaling
- Work on educational and informative films
- Projects on teaching of Global Scaling at educational institutions
- Training of Global Scaling teachers
- Publications about Global Scaling