

# A Research on Management Idea Innovation of Pale-Biotic Fossils in LiaoNing Province of China

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**Abstract:** This paper has studied external environmental factors to influence top strategy of Liaoning pale-biotic fossils and the mode to bring forth new ideas on the basis of the top strategy theory, and in combination with the actual situation, it has been advanced that the work to bring forth new ideas in the management of Liaoning pale-biotic fossils should take bringing forth new ideas in the sense of thought as the leading; new ideas in the environment of legal system as the guarantee; new ideas in the system and mechanism as the key; new ideas in the construction of ranks as the fundament; new ideas in the modes and ways as the focal points; new ideas in the mechanism of investment as the base; new ideas in the cultural atmosphere as the soul; new ideas in the developing strategy as the core. The model to bring forth new ideas in the top strategy of Liaoning pale-biotic fossils was constructed, the conclusion was drawn to create continued bringing forth new ideas in the top superiority, it is of practical significance for perfecting the plan, protection and management of Liaoning pale-biotic fossils.

**Key words:** Top strategy; Pale-biotic fossils; New ideas in management; LiaoNing

## 1 Introduction

At the present time, the sense to bring forth new ideas has been widely receipted, become a part our culture. With the advancing of the science and technology, the accelerating of the course of global economy, how the management work of the resources (pale-biotic fossils) which is not able to be replaced replies the threat and challenge, sets up a correct mechanism to bring forth new ideas is a great problem which is present urgent need to be solved. All countries in the world pay specially attention to the protective research, specimen excavation, collection and use, entry and exit management works of the natural resources of pale-biotic fossils. The management system of the natural resources adopted by foreign countries is great different from one of our country, many countries put into practice a centralized management of the natural resources abroad, our country divides the natural resources into several departments to respective manage. The Ministry of Land Resources is in charge of the management of pale-biotic fossil resources of the whole country in our country. The management way of pale-biotic fossils was issued in 2002, but at present it still is the rules of a department, the contents stipulated are more general, the operating property is not strong. The regulations of protection and management of Liaoning pale-biotic fossil resources drawn up by Liaoning Province has a strong operating property, but its binding force is lower and the range is also less. So the research of an integrated system of protection, management, scientific research, scientific popularization, rational use of Liaoning pale-biotic fossils will be advantageous to the raising of the management level; the perfecting of the laws, regulations and the systems, and the formulating relevant policies; the combining of the resources and giving play to the superiority of the resources, the promoting continuous development of regional economy.

The top strategy is advanced by professor Qin Yuanjian et al. of Wuhan Science and Engineering University from the inspiration of top superiority phenomenon of biologic field. The concept of top superiority originates from biology, the top superiority is also called as the tip superiority, is one of the forms of expression of polar growing, it is to say that the growing force of the buds or branches on the top of the branches is the strongest, one on the lower

branches is more weak in proper order. Only having the top can turn up your nose at the powerful states in crowds. The top superiority is remarkable, the top benefit is huge, can say that “the top superiority” is just the superiority of the whole tree.

## **2 Essential Factors to Influence the Top Strategy of Liaoning Pale-Biotic Fossils**

### **2.1 There are more problems of multi-level managements in which each does things in its way**

With the developing of economy and society, the government of each level more pays attention to the management of pale-biotic fossils; the investment of funds has been increasing year after year. It forms a powerful political system in the management and enforcing the law, in which the government is leading, the state land, public security, industrial and commercial administration as well as other departments concerned put concretely into effect, each has one's own duty, it is managed by different level, invested by more respects, and then this system is playing a more and more important part. But sometimes there is a situation of more leading bodies, each body can manage, and each body can not manage, each body manages when there is the benefit, each body can not manage when there is not the benefit. The natural protection zone of pale-biotic fossils is established in administrative command, it is short of the support and participants of the society and masses of the locality, short of connection with economic development of the locality, short of effective coordination in rational use of resources of protection zone, development zone and buffer zone, repelling one another and conflicting one another between the protection zone, social district, government of the locality and management departments are more than the cooperation and coordination and so on.

### **2.2 The contradiction between the protection and development is more and more conspicuous**

The natural protection zone of pale-biotic fossils is basically located Liaoxi poor areas; the economic development in these areas is more backward, on the one hand the government and the masses of the locality have very strong desire to be lifted out of poverty for prosperity and to develop the economy; on the other hand as a result of poor basic condition and having not quick access to information, so the economic development is strong dependent on the resources, the production and life of the masses are closely related with the resources. This is very glaring expression in Liaoxi area, Liaoxi area was bit by an exceptionally serious drought in the history in 2009, the problem of feeding the population of 5 million was solved by the government. (The Regulations of the Natural Protection Zone of the People's Republic of China) and (The Stipulations to Take Further Steps to Strengthen the Management of the Natural Protection Zone) issued by the State Council clearly defines that the natural protection zone must put the protection of the natural environment and natural resources in the first place, adhere to principle of strict protection, scientific management, rational use and continuous development, promote developing healthily of the cause of the natural protection zone. The stipulations point out that the land and other resources of the natural protection zone may not be sold or sold in disguised form in any name and form. But the protection management is under the pressure of local government for developing the economy, many local governments let the land of the protection zone to individual persons or let the individual persons contract to manage, indiscriminately construct the highways in the name of developing the tourism in the protection zone and so on. The developing of the tourism in the natural protection zone brings the development opportunity to the protection zone, gives a severe challenge to protection zone in the management, so the key is how coordinate the conflict between protection management and development.

### **2.3 The laws and regulations are completed gradually but they still have some shortcomings**

Liaoning Land and Resources Department after it had been established strengthens the work force and quickens the speed of legislation, had drawn up the protection and

management regulations of pale-biotic fossils resources in 2001, which are the first regulations of the grade province in China, at present the protection and management of pale-biotic fossils of Liaoning Province basically forms the system of the laws and regulations concerned on the basis of (The regulations). Basically there are the rules and regulations can be followed in all respects i.e. classification, excavate, market of pale-biotic fossils, no key management of pale-biotic fossils and the management of the museum of pale-biotic fossils etc. But facing reality, we must recognize that the legislation of the protection management of pale-biotic fossils in Liaoning Province is not done nearly enough, this mainly expresses following aspects: first, there is still the gaps of laws in the plan and constructions of the museum and the natural protection zone, they cause the confusions in varying degrees in the practice; second, the laws and regulations concerned are not enough to coordinate one another, even to conflict one another; third, the effect grade of the legislation of key pale-biotic fossils is lower, does not accord with important position of key pale-biotic fossils; fourth, there is not the clause of repayable use in (The regulations), should define the clause in the laws, so that ensure that the environment and resources damaged can be compensated, the economic benefit of the state proprietary rights can be achieved; fifth, each component of the laws and regulations is not coordinated and perfected, the system of the laws and regulations is not formed.

#### **2.4 The benefit driving brings a new pressure to the management**

The government must play central role in the management of pale-biotic fossils, but two important factors to influence the management of pale-biotic fossils are that the market and the government do not work properly. As a result of leading the market mechanism into the management, the people are forced to consider the maximum of the benefit in production and management actions, the driving of economic benefit leads to indiscriminate excavate, this is a main cause that the management and protection of pale-biotic fossils seem being not enough even though the government throws in tremendous financial resources and labor power. If keeping the market action within the bounds, encouraging that the managers process the fossils deeply into refined handicrafts with high extra values, and then it will drive the development of handicraft industry in the locality, has a fixed positive effect for relaxing of social and economic pressure. Thus it gives a new mission to the management of pale-biotic fossils and a new requirement.

#### **2.5 Because the fund is not enough, the function of the management is weakened**

The management organization of pale-biotic fossils of Liaoning Province is a institution, its fund is not allocated unitedly by the state, but the fund is invested by each the department responsible for the work and the government of the locality in accordance with the financial capacity and the degree to pay attention to this work. The finance of local government of Liaoxi area is very difficult; the fund invested is only enough to pay for basic wages of the managerial personnel, so there is not fund for the work. This lead to a operating mode to mix the administration and management of a part of the departments into a body, and then lead to a series of the problems, the departments lose the rationality of supervision and enforcing the law, thus the function of the management is weakened.

#### **2.6 The conflict of knowledge nature exists between the culture and the bringing forth new ideas in the management**

The culture is a important aspect to promote the bringing forth new ideas in the management, The cultural environment plays more and more important role for the bringing forth new ideas in the management. On the one hand with the rising of the living standards of the people, the people long to collect higher and higher, this strong demand brings a new pressure to existent management system and mechanism; on the other hand at present the management of Liaoning pale-biotic fossils follows the management support system to take the natural science as main, pours more the knowledge of natural science and relevant rules into the management, is less to consider the knowledge sense of the common people that

those living on a mountain live off the mountain, they carry out a task basically by a coercive method, so this leads to that some management ways can not be carried out smoothly or are difficult to carry out, causes the contradiction between the residents of the sources of fossils and administrative personnel, the managers are situated in two difficult positions, they must carry out according to the rules and subject themselves to check by the leaders, simultaneously they must strengthen the cooperation to accomplish a task by suiting to traditional cultural knowledge. So the managers must carry out multiple cultural management system for richer effects.

Sum up the relation between the top strategy of Liaoning pale-biotic fossils and external environmental factors by above-mentioned analysis as Figure 1.

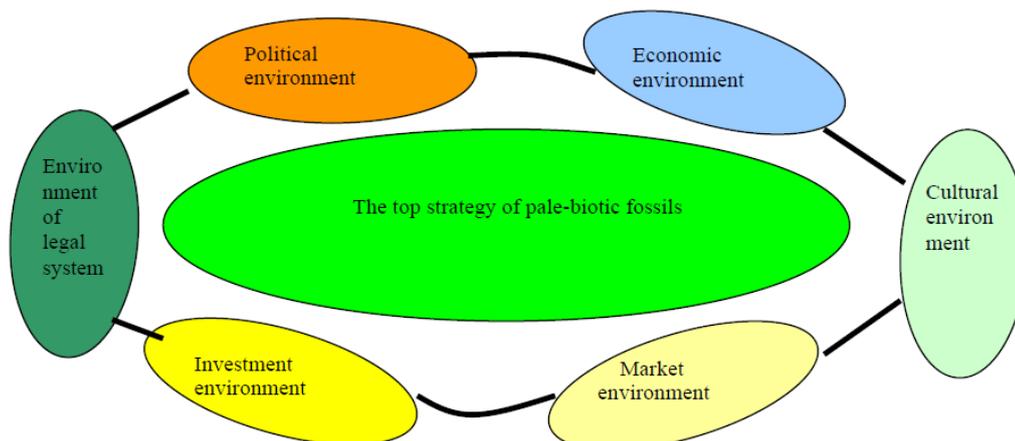


Figure 1 - The Relation Between the Top Strategy of Liaoning Pale-Biotic Fossils and External Environmental Factors (According To Revised By Ren Xiaodong In 2004)

### 3 Mode to Bring Forth New Ideas of the Top Strategy of Liaoning Pale-Biotic Fossils

#### 3.1 Had issued the first protection and management regulations of the grade province in China

The protection and management work of pale-biotic fossils cannot do without the construction of legal system, Liaoning Land and Resources Department after it had been established strengthens the work force and quickens the speed of legislation. It involves three stages on the whole.

First stage, the Standing Committee of the People's Congress of Liaoning Province adopted (The Regulations of the protection and management of pale-biotic fossil resources of Liaoning Province) on January 12, 2001, it was put into effect from March 1, 2001. The Regulations had filled in the gaps of legislation in the field of the fossil resources of Liaoning Province, is the first local regulations of the grade province in the whole country in the aspect of fossil resources, provides the legal guarantee for strengthening the protection and management of fossil resources of the whole province, plays the promotion role of social and economic benefit of fossil resources. According to (The Regulations) Liaoning Land and Resources Department had drawn up more detailed management measures jointly with the departments concerned of provincial government, these measures include (The management measures on the prospecting and excavating of pale-biotic fossil resources of Liaoning Province), (The market management measures of pale-biotic fossil resources of Liaoning Province), (The standards to fix the grade of pale-biotic fossils of Liaoning Province), have basically amplified the laws and regulations of the protection and management ways of the fossils.

Second stage, (The management measures of pale-biotic fossils) issued by the Ministry of Land and Resources had been officially put into effect on October 1, 2002. For the sake of strengthening the protection and adapting new situation of the protection and management of fossils, according to the proposal of Protection and Management Section of

Fossil Resources of Liaoning Province, original (The Regulations of the protection and management of pale-biotic fossil resources of Liaoning Province) had been revised in 2005, (The Regulations of the protection of pale-biotic fossil resources of Liaoning Province) had been officially carried out on August 1, 2005, simultaneously (The management measures

on the prospecting and excavating of pale-biotic fossil resources of Liaoning Province) and (The standards to fix the grade of pale-biotic fossils of Liaoning Province) had been also revised. They had been revised to change into (The management measures on the excavating of pale-biotic fossils of Liaoning Province) and (The standards of the classification of pale-biotic fossils of Liaoning Province). Simultaneously had drawn up (The management measures of no key protective pale-biotic fossils of Liaoning Province) and (The management measures of the pale-biotic fossil museum of Liaoning Province).

Third stage, the nineteenth conference of the Standing Committee of the tenth National People's Congress adopted the explanation of "the stipulations on the cultural relics in the penal law are applicable for pale-vertebrate fossils with scientific value and pale-human fossils" on December 29, 2005. For the sake of putting into effect this explanation, on the basis of soliciting opinions of the specialists in various paleontology, Protection and Management Section of Fossil Resources of Liaoning Province had drawn up (The name list of pale-vertebrate fossils of Liaoning Province with scientific value) and (The name list of precious pale-vertebrate fossils of Liaoning Province with scientific value).

### **3.2 Had established the first fossil protection and management organization of the grade province in China**

Liaoning Land and Resources Department had established Protection and Management Section of Fossil Resources of Liaoning Province in 2001, changed its name into Protection and Management Bureau of Fossil Resources of Liaoning Province in 2007. Thus by that the department of land and resources took the lead, public security, industrial and commercial administration, environmental protection and other departments participated in, the leading group of protection and management work of pale-biotic fossils had been established in all cities and counties. The fossil management office had been established in Chaoyang and Yixian, the public security police substation and economic police troop had been established in Beipiao Natural Protection Zone of bird fossils the work stations and the sentry posts had been established at key protection places, the security personnel put into effect the guard the key places within 24 hours. On the basis of the protection networks established and wide propagation, under the coordination of public security, industrial and commercial administration as well as other departments, all fossil management department of Liaoning Province had given stern deal to illegal personnel according to the stipulations of the laws and regulations concerned. The protection and management work of fossil resources has received favorable comments of leading comrades of the central authorities and the specialists in paleontology, Liaoning Province had become an advanced typical example in the protection and management of pale-biotic fossils in the whole country.

### **3.3 Had established the first fossil appraisal committee of the grade province in China**

For the sake of strengthening effective protection and management of pale-biotic fossil resources and better serving the scientific research, national economy and social development, Liaoning Land and Resources Department had invited 23 specialists in this province and other provinces (at present there are 35 specialists) in paleontology, had established the Pale-biotic Fossil Appraisal Committee of Liaoning Province in 2001; had drawn up (The rules of the Pale-biotic Fossil Appraisal Committee of Liaoning Province) in accordance with (The Regulations of the protection and management of pale-biotic fossil resources of Liaoning Province), the Pale-biotic Fossil Appraisal Committee is a no standing appraisal organization of the specialists set by department responsible for the work of the land and resources. There are chief members, vice-chief members and members set in the committee. The office of the

committee is in charge of day-to-day works, issuing the appraisal certificate, setting the files and placing on files. Its main tasks are to draw up the standards of appraisal and classification of pale-biotic fossils, to appraise and evaluate the various fossils of Liaoning Province, to be engaged in academic research, to spread fossil scientific knowledge, to put forward a proposal for the policy decision of the protection and management of fossils.

### 3.4 Had drawn the first standard to fix the grade of fossils of the grade province in China

For the sake of strengthening the management of pale-biotic fossil resources and correctly maintaining the scientific value of pale-biotic fossils, Liaoning Land and Resources Department had drawn up (The standards to fix the grade of the pale-biotic fossils of Liaoning Province) in accordance with ( The Regulations of the protection and management of pale-biotic fossil resources of Liaoning Province), in 2001; had been revised to change into (The standards of the classification of pale-biotic fossils of Liaoning Province) in 2005. The standards divide the pale-biotic fossils produced inside Liaoning Province into key protective fossils and no key protective fossils, the key protective fossils are divided into grade 1 fossils, grade 2 fossils, grade 3 fossils, then had drawn up (The reference list of the classification and to fix the grade of the Pale-biotic Fossils of Liaoning Province) as a standard to appraise the scientific value of the fossils, had provided a scientific basis in law for cracking illegal activities including smuggling, stealing, damaging, reselling, illegal transferring and robbing the fossils; it is also a standard to determine key protective fossils and no key protective fossils for the classification and management of fossils; simultaneously it lays a foundation to draw up the grade and classification of the fossils of the whole country.

**Table 1 The Development and Change Table of the Pale-Biotic Fossil Museums**

Name	Place	Opening time (Year)	Building area M2	Collected specimen	Exhibits
Yizhou Fossils Museum	Yixian	1994	1000	About 10000	More than 200
Wenya Museum	Jinzhou	1998	900	About 10000	More than 1000
Dalian Natural Museum (pale-biotic exhibition hall)	Dalian	1998	2050	About 30000	More than 6000
Beipiao Pale-biotic Museum	Baishi reservoir	2002	3500	More than 10000	More than 1000
The Museum of Beipiao Sihetun Fossils Ruins	Beipiao Sihetun	2003	1600	About 1000	More than 300
Chaoyang Sanyan Fossil Museum	Chaoyang	2004	800	More than 1000	More than 200
Lingyuan Pale-biotic Museum	Lingyuan	2005	1000	More than 1000	More than 500
Jinzhou Pale-biotic Fossils Museum	Jinzhou	2006	1600	More than 1000	More than 200
Benxi Geologic Museum	Benxi	2007	4200	More than 10000	More than 3300
Chaoyang Pale-biotic Fossils Museum	Chaoyang	2007	12000	More than 20000	More than 2000
The Museum of Chinese-Germany Pale-biotic Fossil geologic park	Yixian	2008	2500	More than 10000	More than 200
Pale-biotic Fossils Hall of Jinzhou Museum	Jinzhou	2008	600	About 10000	More than 170
Pale-biotic Museum of Liaoning Province	Shenyang	2010	15000	About 100000	More than 10000

### 3.5 Had established the first natural protection zone of the grade state

Liaoning provincial Party committee and provincial government pay full attention to the protection work of Liaoxi pale-biotic fossil resources, had established the first natural protection zone of the grade state in China---Beipiao Sihetun Bird Fossil Natural Protection Zone, which was approved by the state council. After it, had established 1 natural protection zone of the grade city, 3 natural protection zones of the grade province and the State Geological Park of Chaoyang bird fossils respectively in Yixian, Chaoyang, Jianchang and Fuxin.

The area of pale-biotic fossil natural protection zones of the whole province increases

from 46.3 square kilometers in 1997 up to 13171.3 square kilometers in 2008, by 285%. As a result of the establishing the pale-biotic fossil natural protection zones and strengthening the management, basically control indiscriminate excavates and robbing excavate.

### **3.6 Had constructed a lot of the pale-biotic fossil museum**

By means of investigation and statistics, at present, 12 pale-biotic fossil museum approved by Liaoning Provincial Government or Liaoning Fossil Resource Protection and Management Bureau had established, 1 pale-biotic fossil museum is being constructed, this is not in other provinces of the whole country. Except the investment of the state, the private capital and foreign capital make a fixed proportion in these museums, some state museum allows that the individual pale-biotic fossils become a share to exhibit, get the benefit together. These measures were put into effect to promote greatly the rational use of pale-biotic fossils and the development of the museum industry. The development and change are as table 1.

### **3.7 The first-rate state geologic park will soon be born**

The State Geological Park of Chaoyang bird fossils which is constructing has five highest degrees of the world i.e. the times of unearthed fossils is the longest, the quantity is the most, the kind is the most complete, the layer is the most the value of scientific research is the highest, the rare pale-biotic fossil resources of a systematic and intact “Rehe pale-biotic group” is located at the origin of Shangheshou fossils which is 7.5 km from city, a theme park to integrate scientific research, scientific popularization, rest, entertainment as a whole is constructed by adopting sound, light, electric and other modern scientific and technological results. The park covers an area of 70 ha. It exhibits the excavated place of fossils that it lets the people feel to be shaken, the stone forest as wood with the momentum which is full of power and grandeur, in addition, forest labyrinth, three repeating playing with water, fishes paradise, happy valley of the cretaceous period, geologic long corridor, golf course, cinema surrounded by 4D screen, animated carton industry, rare stone exhibition center, Sanyan folk custom village with local flavor, these let the people enjoy oneself so much as to forget to go home. There are green pines rising one higher than another, a carpet of green grass, attractive scenery in the park. It is a world that the people fully experience the years drowned and bustles in this world in hundreds of millions ago, touch the life which was living; it is a place the people observe the nature, broaden their knowledge, recall and reverie, have a rest and amusement. It raises the grade of Chaoyang tourism, promotes the development of regional tourism.

### **3.8 First Chinese-Germany geologic park constructed by importing foreign fund in the country**

Mr. Boer who is a German had come to Yixian County to investigate in May 2004. Held consultation each other many times, had preliminarily reached agreement of the intention. The design idea was changed from the initial construction of geological section into the construction of scientific popularization base, and then was developed to design and plan the construction of the geologic park of pale-biotic fossils. The agreement had signed in December 2004. The geologic park of pale-biotic fossils which was newly constructed covers an area of 50 mu, the registered fund is Eur. \$1.5 million, in which the foreign party makes up 51% of the share, Chinese party makes up 49% of share, the time limit of cooperative management is 40 years. This project takes geologic tourism and scientific popularization as main contents, can also provide relevant data and information of geologic research and pale-biotic fossil research for the universities and colleges and scientific research institutes at home and abroad.

The leading cadre concerned thinks that first have a real rational use and effective development of Liaoxi fossils by importing the foreign fund; next let local common people know how much precious the fossils of native place are, strengthen the protection consciousness of the fossils, achieve the protection in the development and the development

in the protection.

### 3.9 Had constructed the largest wood-stone forest in China

There was a tract of primeval forest formed by tall trees of pine and cypress kind in Liaoxi area in the latter part of Mesozoic Era, its grand sight was incomparable, but then suddenly a volcano had erupted fiercely, the died trees have formed the fossils here under geologic action in long years, the greater part of those fossils had been preserved. There are tens places of fossil origin found in Hongqiangzi country of Yixian county, Batuyingzi and Xiguanyingzi country of Beipiao City, appraised by botanical specialists concerned that these wood-fossils are Jurassic Period of Mesozoic Era, there are many kinds, 8 genera, i.e. primeval snow-pine wood, primeval gold-pine wood, ormosia China fir wood, primeval yew podocarpus wood, foreign wood, leaf-branch fir wood etc.

When Chaoyang plans to construct the geologic park, fully pays attention to this superiority of the resources which can not be replaced, gets 1000 wood-fossils to stand up on the mountain slope in the northeast part of the park, has been restored to primeval forest landscape of Cretaceous period. It has a magnificent shape and a tremendous momentum. At present, this is the largest wood-fossil forest in the quantity and scale inside the country, rare in the world. It is a unique landscape of Chaoyang. The specialists evaluate: the construction of the wood-fossil forest is the best way to protect and use the wood-fossils.

### 4 Conclusion

By above-mentioned investigation and analysis of the work to bring forth new ideas in management of Liaoning pale-biotic fossils, the work to bring forth new ideas in the management of Liaoning pale-biotic fossils should take bringing forth new ideas in the sense of thought as the leading; take bringing forth new ideas in the environment of legal system as the guarantee; take bringing forth new ideas in the system and mechanism as the key; take bringing forth new ideas in the construction of ranks as the fundement; take bringing forth new ideas in the modes and ways as the focal points; take bringing forth new ideas in the mechanism of investment as the base: take bringing forth new ideas in the cultural atmosphere as the soul; take bringing forth new ideas in the developing strategy as the core.

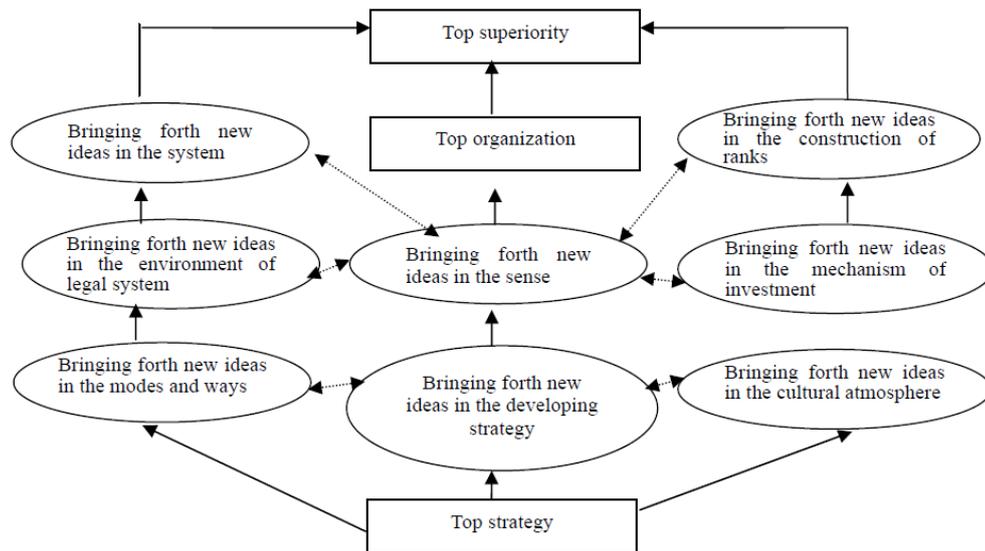


Figure 2 - The Model to Bring Forth New Ideas in Top Strategy of Liaoning Pale-Biotic Fossils (According to the Revised Draft of the Teacher Qin Yuanjian in 2009)

### 4.1 Set up a new sense to bring forth new ideas in the management for suiting the requirement of the development

Must have a new sense, this is a prerequisite of the design to bring forth new ideas in the management of pale-biotic fossils. The establishing of a new mechanism is not equal to

that the new sense has been set up. Only do away with old sense, can set up a new sense. Only change the sense, can change the mechanism. Judged by successful experiments in the management of pale-biotic fossils at home and abroad, the bringing forth new ideas in the management of Liaoning pale-biotic fossils must set up the sense of continuous development, set up the sense take the people as the foundation, set up the sense to use modern scientific and technological results ingeniously, set up the sense to manage according to law, set up the sense to bring forth new ideas continuously.

Must set up a new sense, only the managerial personnel study hard, are brave in the practice, go at home and abroad on a tour of investigation at regular intervals, so that can get more modern profound professional knowledge, a steady knowledge foundation and a wide field of vision, and then take exercise the ability to integrate knowledge. Under new situation, the most conspicuous feature of the managerial personnel is to bring forth new ideas, the most important condition of future managerial personnel should be the ability to manage and to bring forth new ideas. Only the bringing forth new ideas in the management, can raise the level of the management, the bringing forth new ideas in the management is the basic motive force of rational development and use of pale-biotic fossils.

#### **4.2 Perfect the laws and regulations step by step, deepen sense of legal system of the whole people**

At present, the protection and management of Liaoning pale-biotic fossils basically form a system of the laws and regulations to take (Regulations) as basis and to take the coordination of all management ways. But must conscientiously check no coordinating factors of all components of the laws and regulations by combining with the practice, continuously perfect the system; check the conditions of coordinating one another as well as the factors in conflict with that our country acceded to international convention, must revise in good time; simultaneously must draw up the management ways of the plan and construction of the museum and natural protection zone as quickly as possible, so that ensure the work of the museum and natural protection zone can develop healthily.

Simultaneously must propagate to the society, especially do key propagation in the origin of fossil resources, let the people set up the sense of legal system of “the fossil resources are owned by the state”, “prospecting, excavating and collecting the fossils according to the law”, “protect the fossil resources” etc., let the work of the protection and management of the fossil resources become the conscientious action of the whole citizens.

#### **4.3 The core of the management must ensure and continuously promote continuous development of scientific research and scientific popularization**

The management organization under province put into effect vertical management, the core function of the management work is positioned at ensuring and continuously promoting of continuous development of scientific research and scientific popularization as well as relevant service. This is a focal point and key point of overall and deepening reformation, the system and mechanism to bring forth new ideas. The management department should put the administrative function in the management service, don't put the force on brisk market of the fossils, don't participate in the excavating, selling, researching and developing of the fossils. Set up the evaluation system of the achievements of management organization, accept supervision by the society. Set up a new management mode, arouse the enthusiasm from all aspects, and adopt various effective measures, continuously raise the management level, so that ensure the normal operation of management system, guarantee to serve.

#### **4.4 Put the qualified personnel who understand the laws and know the knowledge of the management of pale-biotic fossils in the important positions**

According to the particularity of the management of pale-biotic fossils, must put the qualified personnel who have the ability to grasp the information technique and integrating capacity of the management, to execute the law and understand the law, to be in office according to law, to handle affairs strictly according to the stipulations of the law and to have

strong professional knowledge. Thus can build up management contingents to take fixed personnel in a specific field as the core, to take the specialists of various field and personnel to execute the law as main body in the construction of the contingents of management organization; can bring remarkable effects for the management, research, development and use of pale-biotic fossils; can make the management of pale-biotic fossils become science; can make the management of pale-biotic fossils suit the development of the cause of make the management of pale-biotic fossils.

#### **4.5 Do the routine duties of supervision and management well according to the thinking to lay equal stress on the law and human nature**

At present, the mode and way of the management of Liaoning pale-biotic fossils are basically adapting the situation, the purpose of routine supervision and management is to promote the pale-biotic fossils to develop healthily. Main work of routine supervision and management is that crack down on stealing and excavating, damaging intentionally or to slip up the key pale-biotic fossils according to law, investigate and deal the illegal activities to buy, sell and produce false fossils with accordingly according to law. Encourage and supervise that the personnel who are engaged in the fossils make the fossils with extra care become the handicraft articles with high additional value.

#### **4.6 Practically solve the problem of the fund of the construction and management**

Play the roles of the People's Congress and the People's Political Consultative Conference; bring the construction and management of the natural protection zone of Liaoxi pale-biotic fossils into line with the plan of national economy and social development in the government of each level, the fund is placed in financial budget, supervise and urge to put into effect.

Establish the office of large projects, it is mainly in charge of getting the fund subsidization from the country and provincial government; fully bring into play the initiative of various circle of the society, open the auxiliary channels of the investment among the people and residents; play superiority role of Liaoxi pale-biotic fossils, widely develop international cooperation, conscientiously strive for the aid of foreign body among the people, international organizations and foreign governments.

#### **4.7 Build and encourage the cultural atmosphere to bring forth new ideas continuously**

The culture, in a broad sense, it relates to the habit of thinking, the mode of handling affairs, the principle of ethics and the system of value in the people, in a sense, the culture is a general mood and prevailing custom, a social atmosphere. It is invisible and also real, can run into it in all respects of daily life of the people constantly. There are many good things in historical culture; those are required to be enlarged energetically by us. We investigate the origin of the Hu Guizhou dragon of Luyin village of Xingyi Xiangxiao Town of Guizhou Province, find that since the people of the Bouyei nationality in the locality had erected the stele of the country's regulations and the people's appointment to protect the geomantic omen and dragon mountain in Xianfeng fifth years of the Qing Dynasty, the blowing up the mountain and mining the stones is forbidden, the forestation has been being up to now. So the cultural atmosphere to bring forth new ideas is the soul. Strengthen the propaganda and education of the protection regulations, plan and management regulations, excavate management regulations, market management regulations, collection management regulations etc of the pale-biotic fossils, make sure the most majority of the people know the significance to protect the pale-biotic fossils. Strengthen the scientific popularization work of the protection of pale-biotic fossils; build the consciousness that the whole citizens have a conscientious protection of pale-biotic fossils. Must initiate a general mood to dare to challenge all bad customs and habits (those living on a mountain live off the mountain etc.) in the society. Initiate to cherish the environment, cherish the life in the world, and cherish the core resources of Liaoxi that can not be replaced, form a general atmosphere to encourage the bringing forth new ideas.

#### **4.8 Overall plan and integrate the resources, apply for Liaoxi Cretaceous Period World Geological Park**

All cities of Liaoxi area must set up big Liaoxi thought of a game of chess, under the leadership of provincial Fossil Resource Protection and Management Bureau; take Chaoyang as a core, both Fuxin City and Huludao City participate in, form a united leading group to apply for, Overall plan and conscientiously integrate the resources, each is in charge of its duty, face any risk together, enjoy the benefit together.

Liaoxi Rehe living beings group itself is just a grade world brand, the only living beings group in the world, so Liaoxi has condition to apply for the Cretaceous Period World Geological Park by further integrating the resources. Take applying for the construction of the Cretaceous Period World Geological Park as a turning point, can effectively raise the whole opening image of our province; create the top superiority, drive to have a great development of the tourism of our province; simultaneously drive that the poor people of the mountain area are lifted out of poverty and plentiful. Apply for Liaoning Cretaceous Period World Geological Park successful has great significance for developing the economy, flourishing the society, hand and carry on human history and national culture, is a significant measure to construct harmonious Liaoning and to favor and benefit descendants.

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