



SPECIAL

3 A Scientific Project Searching for the Origin of Chinese Civilization

Yin Weizhang

The Xia-Shang-Zhou chronology project is the most important interdisciplinary research program of social humanities and natural sciences in China. Based on this project, the historic chronology of China has been shifted from 841 BC to 2070 BC. This achievement lays the foundation for searching for the origin of Chinese civilization.

8 The Remarkable Beginning of the Knowledge Innovation Program

Tang Zhangcheng

The article gives a brief introduction to the first phase of the pilot project of the Knowledge Innovation Program in Chinese Academy of Sciences, including its objectives, management and operation, evaluation system and achievements.

FRONTIER

12 Exploit Oceanic Resources in the 21st Century

Zhu Jimao

The article emphasizes the important role played by high-tech such as the development of gas hydrate, the mining of multi-metallic nodules, and so on.

16 The Highlights of Experimental Particle Physics in 2000

Qi Nading

Three exciting highlights in the field of experimental particle physics appeared in the world in 2000. They are the direct detection of the τ neutrino for the first time, the evidences of the Higgs Boson, the first experimental result of the CP violation of B meson reported by B-Factories departing from the prediction.

20 To Solve Some Geometry Problems by Means of Machine

Zhang Jingzhong

It was a dream to make a machine to solve the protean problems in geometry. Now the PC software can not only give the final results for many hard geometry problems, but also provide the short, elegant and traditional solutions.

24 Perpetual Debate on the Origin of Bird

Hou Lianhai

Because of the discovery of *Cathayornis* group and *Confuciusornis* group, the field of avian origin has undergone revolutionary changes in the last ten years in China, especially in west Liaoning province. Long-time debates on the origin of bird and flight are also introduced, especially different theories are concerned. Four different prototypes of *Confuciusornis* group in morphology show that the bird origin is not monophyletic, but polygeny. Dinosaur is not the ancestor of bird.

FORUM

30 *Kexue* (Science) and the Spreading of "Kexue Jingshen" (Scientific Spirit) in China

Fan Hongye

"Kexue Jingshen" (scientific spirit), a Chinese word first coined in 1916 in Chinese literatures, has been spreading for dozens of years by *Kexue*.

34 A Survey of the Personnel Training: Issues to be Studied and Functions in Organization Practice

Xie Xiaofei, Chang Yuxuan

The Personnel Training gains special attention in modern business management, as an enterprise today profits more from flexible adaptation than from routine operations. The key issues concerned with training include scientific assessment of efficiency, framing of models, and selection of methods. Some insights are given by studies and corporation practice.

38 The Olympic Spirit in Fundamental Researches

Wu Zhongliang

By comparing the Olympic games with fundamental researches, this article emphasizes the Olympic spirit in science, calls for a positive attitude and sustainable strategy in the development of fundamental researches.

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44 History of Space Art

Li Yuan

ORIGIN & DEVELOPMENT

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Zi Xiaohu

COMPASS

51 Unraveling the Enigma of Vitamin D

Wu Bing

Office: 450 Ruijin Er Road

Shanghai 200020

P. R. China

E-mail: kexue3@mail.kexuemag.com

Fax: 86-21-64730679

Telephone: 86-21-64734651

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