

DISCUSSION ON THE MANAGEMENT OF POPULAR SCIENCE ARCHIVES IN SCIENCE AND TECHNOLOGY MUSEUMS BASED ON KNOWLEDGE MANAGEMENT

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Abstract: Today is the era of knowledge economy, and the corresponding knowledge management theory has been studied by more and more people. Popular science archives of science and technology museums are important knowledge resources. With the support of knowledge management theory, science and technology archives management workers in science and technology museums should re-explore archives management ideas to realize the value-added of science and technology archives resources in science and technology museums. At the same time, there is a close relationship between knowledge management and popular science archives management in science and technology museums, and it is necessary to sort out the relationship and existing contradictions between the two. Based on the perspective of knowledge management, this paper briefly discusses the positioning of popular science archives management in science and technology museums, analyzes the impact of popular science archives management in science and technology museums, and further discusses the optimization ideas of popular science archives management, aiming to promote popular science archives. value maximization.

Keywords: Knowledge management; Science and technology museum; Popular science archives; Management

1 POSITION ANALYSIS OF POPULAR SCIENCE ARCHIVES MANAGEMENT IN SCIENCE AND TECHNOLOGY MUSEUMS BASED ON KNOWLEDGE MANAGEMENT

Entering the 21st century, human society has officially entered the era of knowledge economy, and knowledge elements and information are flooding the whole society. In order to better excavate and embody the value of knowledge, knowledge management as a new management model emerges as the times require. As an important knowledge resource for recording human science and technology culture, the popular science archives of science and technology museums have high knowledge value. How to realize the value-added of popular science archives of science and technology museums in the era of knowledge economy requires science and technology museums to keep pace with the development of the times, based on the specific needs of knowledge management for the management of popular science archives of science and technology museums, and to explore feasible and effective ideas for the management of popular science archives of science and technology museums. This promotes the development and utilization of the value of popular science archives and lays a solid foundation for the further development of human science and technology civilization. In general, from the perspective of improving the efficiency and quality of popular science archives management in science and technology museums, the analysis and discussion of "knowledge management-based popular science archives management in science and technology museums" in this paper is of great significance. The core content of knowledge management is knowledge sharing, which pays more attention to the development and utilization of the actual value of knowledge. Therefore, the popular science archives management of science and technology museums from the perspective of knowledge management should pay attention to the development and utilization of information resources of science and technology archives, so as to realize the maximum utilization of the value of science and technology archives resources through effective management. At the same time, the management of popular science archives in science and technology museums based on knowledge management needs to be clearly positioned so that the follow-up management can be carried out smoothly and orderly. To sum up, the main points of specific positioning content are as follows:

1.1 Popular Science Archives are a Medium for Knowledge Sharing

Whether knowledge is valuable depends on whether knowledge plays a positive role in human production and life. For science and technology museums, popular science archives information resources, as an integral part of important knowledge resources, record in detail and complete the original information generated by science and technology museums in the process of popular science exhibitions and popular science education activities. In addition, in the management of popular science archives, using effective means to tap the potential value of popular science archive resources can not only promote the realization of archive functions, but also provide carrier support for knowledge sharing in science and technology museums.

1.2 Popular Science Archives are Valuable Knowledge Resources

The so-called "popular science archives" refer to the information resources with preservation value formed by science and technology museums in daily science popularization education and special science and technology knowledge

education, which are valuable knowledge resources of science and technology museums. At the same time, popular science education, popular science knowledge competitions, etc. are all ways for science and technology museums to popularize scientific knowledge to the public. Therefore, popular science archives are valuable knowledge resources of science and technology museums. The whole process has witnessed the knowledge management activities of science and technology museums, and can present tacit knowledge in a specific way.

1.3 Popular Science Archives are an Important Proof of Intellectual Property Ownership

A series of activities carried out by the Science and Technology Museum around the management of popular science archives, such as knowledge publicity and education, science and technology exhibitions, etc., will produce many new products and new technologies, and these are the original achievements of the Science and Technology Museum, not only the crystallization of the wisdom of all staff of the Science and Technology Museum, It is also a concrete manifestation of the comprehensive soft power of the Science and Technology Museum, which can bring considerable economic benefits to the Science and Technology Museum. Therefore, it is of practical significance to protect the independent intellectual property rights of scientific research achievements such as new products and new technologies. Popular science archives are valuable information formed in the whole process of R&D, declaration, and project completion of the innovative achievements of the Science and Technology Museum. It provides a strong guarantee for the protection of intellectual property rights of science and technology museums.

2 ANALYSIS OF THE IMPORTANT IMPACT ON THE MANAGEMENT OF POPULAR SCIENCE ARCHIVES IN SCIENCE AND TECHNOLOGY MUSEUMS FROM THE PERSPECTIVE OF KNOWLEDGE MANAGEMENT

Knowledge management is a large and broad concept, and the management of popular science archives in science and technology museums can be regarded as a part of knowledge management. It can be seen that there is a close relationship between knowledge management and popular science archives management in science and technology museums. Moreover, based on the perspective of knowledge management, the important impact on the management of popular science archives in science and technology museums is also reflected in many aspects. To sum up, the specific important impacts are as follows:

2.1 Intelligent Archives Service

Entering the new era, network information technology represented by big data, cloud computing and artificial intelligence technology is widely used in various industries in society, and has also been widely used in file management, and has produced good results. From the perspective of knowledge management, the management of popular science archives in science and technology museums needs to pay attention to the combined use of network information technologies such as big data, cloud computing, and artificial intelligence in the archives management work, so that archives services have significant intelligent features. Specifically, in the management of popular science archives in science and technology museums, advanced database technology and artificial intelligence technology can be used to realize electronic processing and database storage of popular science archives. With the support of computer technology, short keywords or special symbols can be realized. Inquiry, so as to meet the personalized service needs and diversified service needs of users of popular science archives.

2.2 High File Utilization Efficiency

The management of popular science archives based on the traditional model focuses on the collection and preservation of archives, without in-depth mining of information resources of popular science archives, especially in the mining of potential value of popular science archives. The management of popular science archives based on the knowledge management model focuses on the development of the potential value of knowledge resources in order to achieve the goal of maximizing the utilization value of archives information resources through the effective application of advanced technical means. In this process, archives management personnel are required to strengthen the application of big data technology, information technology, etc., to deeply dig out valuable information in popular science archives, and transform it into knowledge. For example, popular science textbooks developed based on popular science archives can also be collected into popular science part of the file. It can be seen that applying the concept of knowledge management in the management of popular science archives in science and technology museums can realize the deep mining of the value of archive resources with the support of network information technologies such as big data and intelligent technology, and can greatly improve the utilization rate of knowledge resources in popular science archives. .

2.3 File Storage is more Convenient

In the management of popular science archives of science and technology museums, the concept of knowledge management is integrated, so that network information technologies such as big data and cloud computing can be widely used in the management of popular science archives of science and technology museums. With the support of network information technology, the science and technology archives management personnel of science and technology

museums digitize the existing traditional science popularization archives knowledge resources and store them in the database. On this basis, the digital resources of popular science archives are combined with network information technology to realize the information management of popular science archives in science and technology museums, and provide a platform and technical support for the sharing of archive information resources in a wider range.

3 ANALYSIS OF MANAGEMENT IDEAS OF POPULAR SCIENCE ARCHIVES IN SCIENCE AND TECHNOLOGY MUSEUMS BASED ON KNOWLEDGE MANAGEMENT

Knowledge, like the process of human development, is not only a process of accumulation, but also a dynamic process of continuous innovation. Therefore, in the process of science and technology archives management in science and technology museums, archives managers should deeply understand the importance of work, keep up with the pace of development of the times, and pay attention to the combination of modern advanced technology and archives management, so as to practice knowledge management in practice. The concept provides a guarantee for the improvement of the efficiency and quality of file management. It can be seen that it is very important to clarify the thinking strategy of science and technology museum archives management based on knowledge management. The specific thinking strategy is summarized as follows:

3.1 Innovating the Concept of Popular Science Archives Management

Popular science archives management from the perspective of knowledge management focuses on the realization of knowledge value. Therefore, the science and technology archives management staff of the Science and Technology Museum should have a deep understanding of the concept of knowledge management, abandon the traditional archives management concept of focusing on archives collection and ignoring the use of archives, strengthen the learning of knowledge management concepts, and pay attention to the combination of network information technology and popular

science archives management. Combined, establish a file management service concept centered on file information users. Make full use of network information technology to realize the sharing of knowledge resources of popular science archives, give full play to the advantages of popular science archives resources in science and technology museums, provide multi-form and all-round services for popular science archives for various industries in society, promote the sharing of popular science knowledge, and promote the utilization of knowledge resources of popular science archives. Value maximization provides guarantee.

3.2 Development and Utilization of Knowledge Resources of Popular Science Archives

The knowledge resource of popular science archives is the core component of knowledge resources of science and technology museums. In order to realize its value, we must pay attention to the development and utilization of knowledge resources of popular science archives, so as to provide scientific and technological information knowledge for science and technology museums and create good economic benefits for them. Not only that, it can also provide scientific and technological information support for social development. For example, when compiling modern books, the editors can dig deep into the resources of popular science archives to arrange them. For example, in order to meet the current reading needs of young children, they can combine digital resources such as children's growth and healthy diet in the Science and Technology Museum to make children's books. Meeting the reading needs of young children can also escort the healthy growth of young children. More importantly, it not only creates certain economic benefits for the science and technology museum, but also realizes the maximization of the value of the knowledge resources of the science and technology archives of the science and technology museum. Another example is to carry out purposeful and targeted compilation and research based on the information resources of science and technology archives in science and technology museums, and to organize relevant prevention and control knowledge around the needs of epidemic prevention and control in the post-epidemic era, print them into books, and distribute them to the general public, so as to guide the masses on how to do a good job in the prevention and control work in the post-epidemic era, and provide support for my country's decisive victory over the epidemic. At the same time, scrolling broadcasts on old and new media such as TV and the Internet can do a good job of publicizing the epidemic prevention and control in the post-epidemic era to the public. The use value can be maximized. All in all, the management of popular science archives in science and technology museums based on knowledge management should focus on the development and utilization of archives resources, continuously excavate the knowledge resources of popular science archives, and provide guarantee for improving the public service level of science and technology museums.

3.3 Promote the Sharing of Popular Science Archives Resources

From the perspective of knowledge management, the management of popular science archives in science and technology museums needs to focus on maximizing the utilization value of popular science knowledge as the ultimate goal. This requires science and technology museums to establish a sharing mechanism in practice to provide effective information resource services for popular science archives to the public. Therefore, in the specific work, science and technology archives management workers in science and technology museums should do two things well: first, managers should deeply understand the specific requirements for popular science archives management in the new era,

and actively use the Internet of Things and artificial intelligence in practice. Network information technologies such as intelligence and big data continuously improve the informatization and intelligence level of popular science archives management in science and technology museums, and provide technical support for the comprehensive analysis and extraction of popular science archives knowledge; secondly, popular science archives management staff should keep up with the times. Keep advancing, establish the concept of full life cycle management, make full use of modern network information technology to establish a database of popular science archives resources, and build a sharing platform around the utilization of popular science archives knowledge resources, and organically combine the platform with the archives management database of science and technology museums, so that different users can be in Query, download, etc. within the scope of authority to realize the interconnection and sharing of popular science archives and knowledge. In this way, the knowledge resources of popular science archives of science and technology museums not only maximize the value, but also meet the diversified needs of popular science archives of different archives user groups. However, it should be noted that in the information management of popular science archives in science and technology museums, security and confidentiality work should be done well. For the contents of archives with copyright and patent rights, access rights and digital encryption can be adopted to protect the security of knowledge resources of popular science archives.

3.4 Improve the Comprehensive Quality of Popular Science Archives Management Staff

From the perspective of knowledge management, the improvement of the management level of popular science archives in science and technology museums is affected by many factors, among which the comprehensive quality of the staff of popular science archives management plays a decisive role. Therefore, in the context of the new media era, the management of popular science archives based on the perspective of knowledge management must have professional archives management skills, theoretical knowledge, and network information literacy, in order to do a good job in the management of popular science archives. The staff is the main body of popular science archives management, and their management ability and management concept will directly affect the embodiment of knowledge management concept. Therefore, popular science archives management staff should strengthen the study of knowledge management concepts, actively change management concepts and innovate management methods. The identity of the knowledge manager puts forward higher requirements on the business management ability and professional quality of the science and technology archives management staff of the science and technology museum. On the one hand, popular science archives management workers should have forward-looking thinking, master a wealth of theoretical foundations in archival science, and archives management business knowledge. To solve problems with the knowledge of archives business management that has been mastered, so as to promote the improvement of archives management level. On the other hand, popular science archives management staff need to master certain technologies such as information technology and big data technology, and combine modern network information technology with popular science archives of science and technology museums, in order to give full play to the advantages of network information technology such as big data technology and Internet technology, Promote the improvement of popular science archives management. Therefore, science and technology museums should strengthen the construction of popular science archives management teams to ensure that the overall quality of archives management staff meets actual needs. In the specific work, the Science and Technology Museum needs to focus on the following aspects.

(1) The management staff of science and technology museums need to raise awareness ideologically, and actively convene archives management staff to participate in systematic and targeted learning of archives management knowledge and skills in practice, and combine the actual needs of the times for archives management to strengthen The professional quality education of popular science archives management workers enables them to consciously and strictly follow the specific requirements in practice to do a good job in service work. In specific operations, face-to-face lectures, special lectures, seminars, etc. can be adopted to impart cutting-edge knowledge about archives management to them. At the same time, strengthen the professional education of archives management practitioners, establish correct three views, and ensure that archives management practitioners can do a good job in various archives management work in a specific work, so as to continuously improve the management of popular science archives in science and technology museums levels and service capabilities.

(2) Practitioners in science and technology archives management of science and technology museums consciously strengthen their learning, establish a lifelong learning concept, continuously carry out targeted and intensive learning, strengthen their awareness of independent learning, and comprehensively learn through offline science and technology museum practice learning and online learning. Improve your own management ability and make further efforts to develop into a compound file management talent.

(3) The Science and Technology Museum should provide opportunities for professional training of popular science archives management workers, and will choose business backbones to go out and exchange advanced experience with the outside world. Not only that, the science and technology museum should also build an effective assessment plan for the archives management work. For those who perform well in the work, they should adopt a combination of spiritual and material rewards to mobilize the enthusiasm of the archives management staff; Poor personnel should be properly criticized and educated, and if their work performance is too negative, they may consider being transferred from their posts or increasing punishment. In this way, we can promote the realization of the personal role of popular science archives management staff, thereby effectively improving the management level of popular science archives in science and technology museums, and maximizing the knowledge value of popular science archives.

4 CONCLUSION

To sum up, in the era of knowledge economy, the work of popular science archives in science and technology museums should keep pace with the times, and pay attention to the realization of the knowledge value of popular science archives. Therefore, science and technology archives management workers in science and technology museums should change the concept of archives management in practice, and consciously strengthen learning, and continuously improve personal professional and professional quality. At the same time, in specific archives management, pay attention to big data, artificial intelligence, etc. The combination of network information technology and archives management will continuously improve the management level of popular science archives and provide support for promoting the development and utilization of information resources of popular science archives.

COMPETING INTERESTS

The authors have no relevant financial or non-financial interests to disclose.

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