

Study Learning Effect of Visitors in Science and Technology Museum through Personal Meaning Mapping

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The personal meaning map (PMM) is a tool to evaluate learning effect in an informal learning environment developed by Falk of Maryland Institute for Learning and Innovation in the United States. It is based on constructivist theory, considering differences in personal knowledge, physiological conditions and social experience. It not only focuses on the changes that occur during the learning process, but also the extent of this change. Therefore, PMM has been effectively applied in museums, art galleries, etc. This paper analyzed the cases and related research results of PMM at home and abroad, and conducted empirical research in special exhibition of China Science and Technology Museum. It demonstrated the methods and conditions for using PMM to evaluate learning effect of visitors on special exhibition, and analyzed advantages and disadvantages of PMM method, which provides reference for optimizing the application of the PMM method in science and technology museums.