New Approach of Collaboration with Industry

Miraikan

Miraikan – The National Museum of Emerging Science and Innovation

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Kao & Miraikan Collaboration Team

Introduction

Engineers from an industry are in the forefront.

Miraikan is collaborating with Kao, a private enterprise, to develop and provide science communication activities for children education. This collaboration started from finding common goals and discussing the possible plans together. As our first step, Miraikan and Kao agreed to provide talk shows with three engineers from the enterprise. In this poster, we introduce our achievement in the first step of our collaboration.

Goals for the activity



Engage a private enterprise to do science communication activities through visualizing Kao engineers' ideas behind the daily necessities.



Engage children to find connection between daily life and science and then think how individuals' behavior is affecting the Earth environment and then take action.

Talk show with engineers (First step activity)



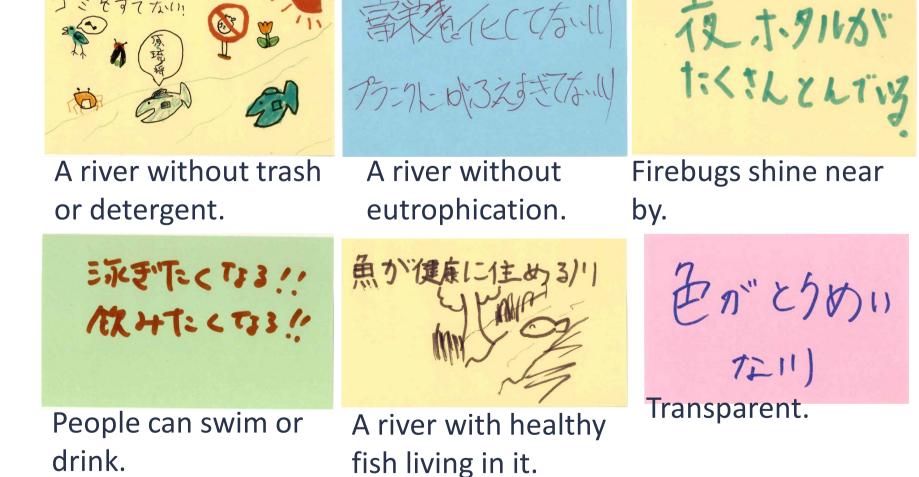


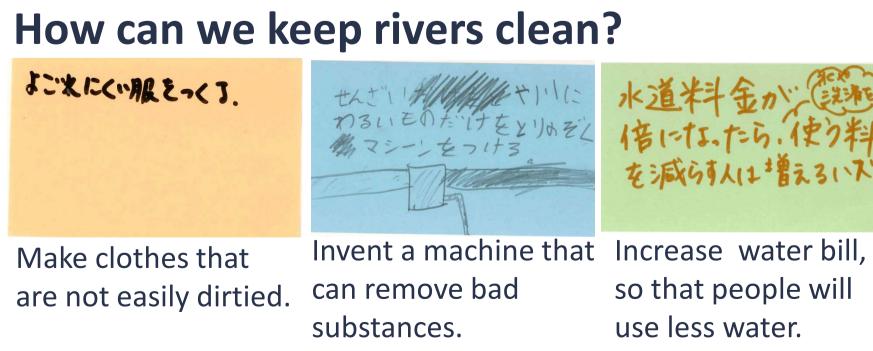
Topic: To make sure that detergent discharged into rivers is eco-friendly, its biodegradability & eco-toxicity is assessed through lab experiments and aquarium monitoring.





What is a clean river?

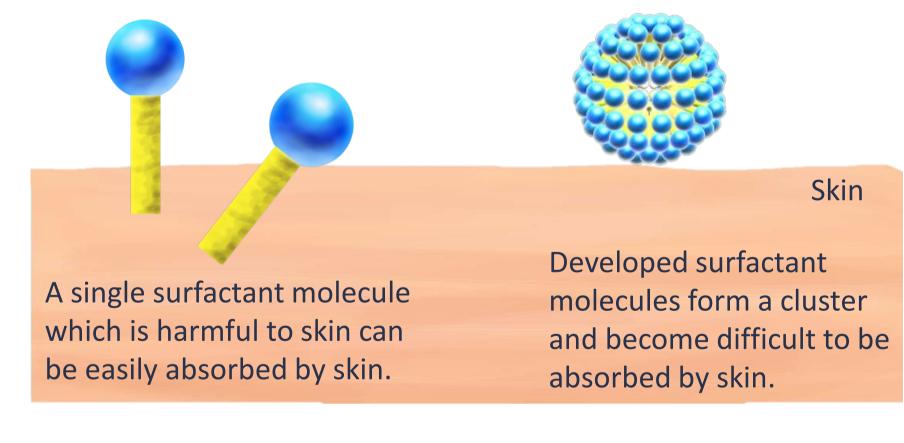




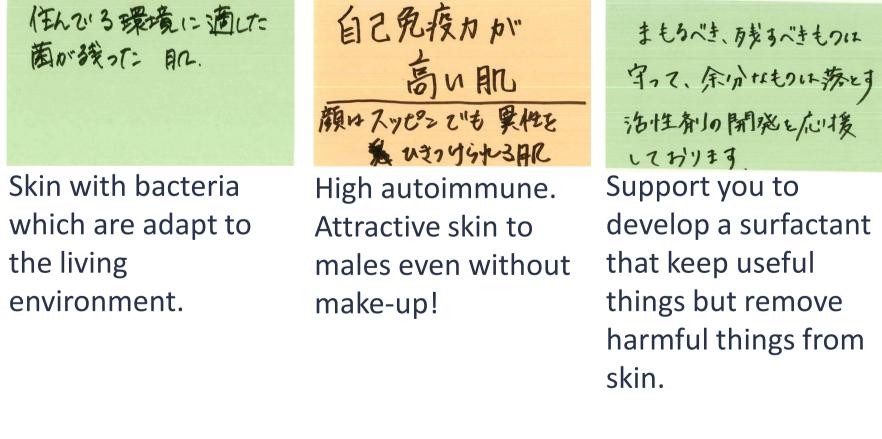
How to keep skin beautiful?



Topic: To keep skin's beauty, a new detergent, named EC, was designed to clean well, but low irritation to skin.



How to keep beautiful skin?



Op

Opinions and questions from audience		
~キレイ・よ M~ 国によって戻る ペニーズ・・・里はう 製品ローカライス"のは安まする。 を附向でキレイによる製品がいいです。 石けんにせんでてすびず大きなからいなる。	どっくらしのじかんで あいうの? はかしでなっかれるの? ECがほといとでおとだとが、 あできた。	月八の中にの及りでれてこれですがってする。?
It is necessary to develop local products according to different	How long should	Where will the surfactant go after it is absorbed by skin?

If you could print anything, what would you print?



Topic: Develop a quick-drying, water-based ink using pigment nano-dispersion technology. It has made it possible to achieve high-quality printing using less ink.



A photograph was printed in normal water-based ink on the film.

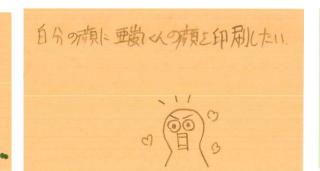


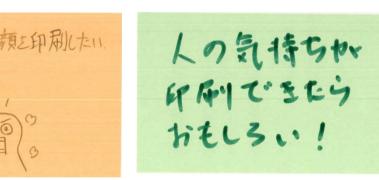
A photograph was printed in water-based ink on the film with Nano dispersion technology.

If you could print anything, what do you want to print?



道にまよったら出口をおけらに、りょうりをいんさつしたい





Print a handsome Print people's face on me. feelings. メイクを顔に 印布リレマはしい! 寝てる間に化粧をさきる

Print make-up on my face when I'm sleeping.

Print Mona Lisa on the wall.

Next step!

The theme will be the life cycle of products. With the help of Kao, we can unveil how each step impacts the environment and thus reflects our daily life's behavior as consumers. The workshops are expected to be promoted via industry's network.

needs.

countries culture and



Selecting

Materials



Products

Money.

水性へつは乾にた

あとは、雨にぬれても

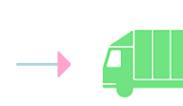
Will the color fade if

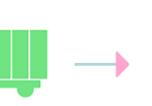
a picture printed in

gets wet with rain?

the water-based ink

落ちないであか?







Products



Disposal

Life cycle of products.

Transportation