UMG 2018: Foreign Exchange? University Museums and International Engagement

∑ UM:s

Science in University Museums
An international initiative

Paul Smith & Janet Stott
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Socioeconomic barriers in higher education

HE participation by gender, ethnicity and socioeconomic status

Proportion of 18 or 19 year-olds who took their GCSEs in 2006 participating in HE (%)

- White British
- Other White
- Black African
- Black Caribbean
- Other Black
- Indian
- Pakistani
- Bangladeshi
- Chinese
- Other Asian
- Mixed
- Other

'high SES' and 'low SES' refer to top and bottom SES quintiles


Baars et al., LKMco, 2016
Inequality in science

ELITE CAREERS
The United Kingdom’s National Statistics Socioeconomic Classification (NS-SEC) uses occupation to place people in ranks from 1 (higher managers and professionals) to 8 (unemployed). Science is one of many professions dominated by people of high socioeconomic status.

In any given profession, divide the fraction of members from each NS-SEC group by the fraction of that group in the general population. A ratio greater than one shows that that group is over-represented, and a ratio less than one shows it is under-represented.

NS-SEC origin:  
- 1  
- 2  
- 3–5  
- 6–8

Gibney, Nature 537, 2016
Socioeconomic barriers in STEM

The science attainment gap widens between Key Stage 2 (7–11) and Key Stage 3 (11–14)
Project IMAGOS

Engaging young people with science through out-of-school-hours learning
Manchester Museum – The Genetics of the Two Brothers
Cascading knowledge by training the trainer

8 participants

140 teachers in schools

3166 children

Transforming Learning in Science Through Collaboration With Museums

Adam Goldwater
Ocean Song: Sounds of the Sea

Creative Science Engagement with Natural History Collections: Arts and Science at the Museum of Zoology

Community engagement project combining arts and science to create a piece of sound art inspired by the Museum of Zoology’s iconic Fin Whale skeleton.

We want YOUR voice!

Ocean Song: Sounds of the Sea

Award winning sound artist, Chris Watson (Attenborough’s Life series), and choir leader, Rowena Whitehead, will lead a workshop to create a unique soundscape of the sea. Add your voice to the installation that will accompany our Finback Whale in its new home.

Join us on Saturday 15th November, 2pm - 4pm at The Polar Museum, Lensfield Road, Cambridge CB2 1EP

Booking is essential. Contact us on umzc@zoo.cam.ac.uk
**Study: Students Really Do Learn Stuff on Field Trips**

New research shows that class trips offer educational value--and that they are in danger of disappearing from American schools.

*JULIA RYAN | SEP 10, 2013 | EDUCATION*

**Schools can't spare time or dimes for field trips**

By BY SEEMA MERTA | LOS ANGELES TIMES STAFF WRITER | MAY 19, 2008 | 12:00 AM

**Amid shrinking budgets, program brings museum to schools**

Fourth-grade students at Bloomfield Elementary School in Skowhegan got a visit from the L.C. Bates Museum in lieu of funding for educational field trips.
Museums of Science & Culture

Education

Mountain View students take cyber trip to Harvard

Mike Parks
editor@thefranklinpress.com

Students learning about ancient cultures at Mountain View Intermediate School get a unique treat last week, getting an inside and personal view of the Peabody Museum of Archaeology and Ethnology at Harvard University.

“The students,” gathered in the school’s media center, got to meet Andy Majewski, education specialist for the museum, through Skype—an online video chat program that allowed the kids to see the presenter and hear him through specific children in the museum since Boston tied in with their current lessons in Franklin.

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“Students pay a small fee to take part in the presentations, and MVIS received a discount and grant to help pay for the program,” said Baldwin.

“We’re not all that different from these people living ancient times,” he said.

Majewski said that the program also provides a great introduction to the Aztec and Maya cultures, which can be helpful to any students when they begin to study these ancient cultures.

Programs like this give our kids the background knowledge that they need in order to make connections to the gradations, in the

Schedule a Virtual Field Trip!

Mesopotamian Monuments

Mountain View students take cyber trip to Harvard

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Mesopotamian Monuments
Photo: Lucília Monteiro
ProMUSIT: 3 million people reached to date in 180 towns and cities
Museu de Ciências e Tecnologia
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Area of Rio Grande do Sul
292,000 km²

Area of UK
242,000 km²

1136 km = London to Vienna
3,000 schools benefitted since programme started
Museu do Amanhã
Rio de Janeiro
Museu do Amanhã

Photo: André Nazareth
Museu da Maré
Rio de Janeiro
Museu da Maré
Rio de Janeiro