



# Cooperation with the Ministry of Education Oman Oman Science Festival 2019



Michael Hoch for CMS and the art@CMS & ORIGIN team





# Contact with Oman Education Ministry and Geneva Mission since 2015

2017, Invitation to the Oman Science Festival – Michael Hoch keynote presentation at the opening about interdisciplinary science education.





# Oman Science Festival 2019

- M. Hoch received an Invitation to present an exhibition of the style IBS cultural center Daejeon/ Korea 2019  
<https://www.youtube.com/watch?v=8I7V6pY0lml&t=241s>

- *Requested Educational program: lectures & workshops on science & art*

Target audience:

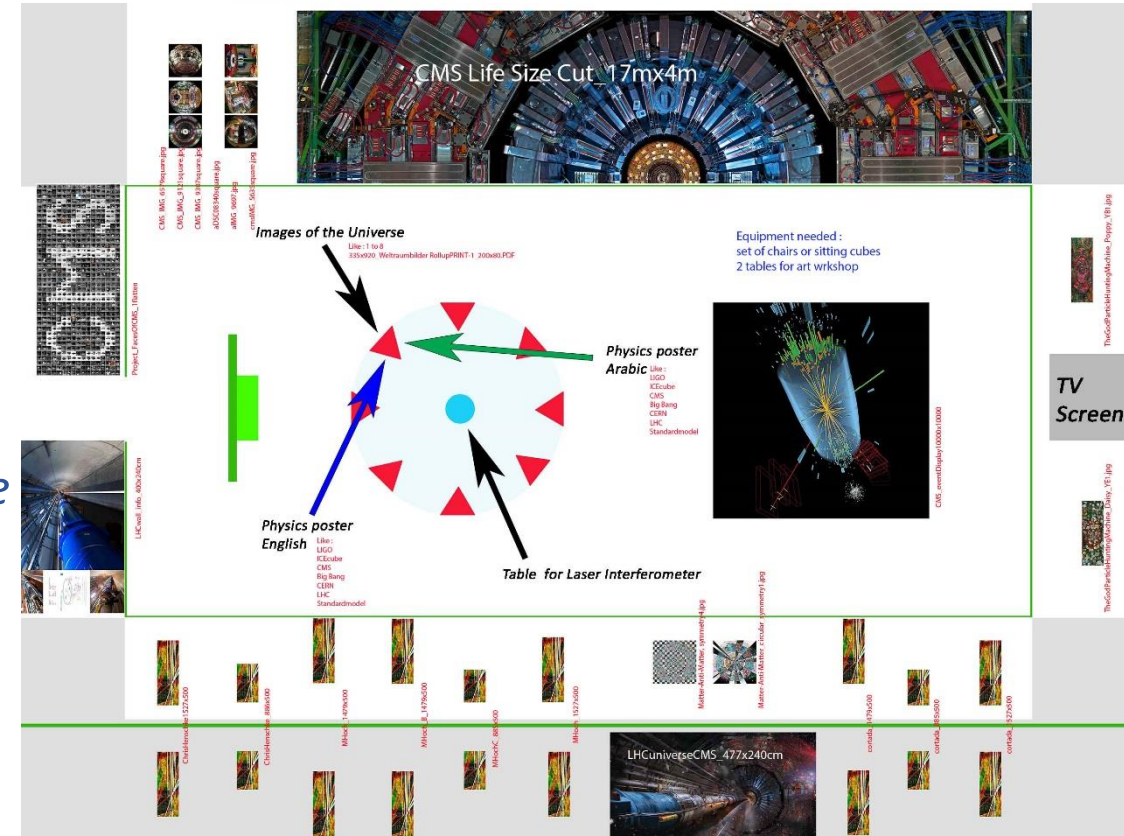
- 1) high school teacher
- 2) high school students
- 3) primary school students

*Introduce “Cultural Collisions” format, like Ontario Science Centre Toronto/ Canada 2018 for a possible project in Oman 2021*

<https://www.youtube.com/watch?v=4Hkrr1mCz7o>



Floor plan OSF2019



# art@CMS Korea -> ORIGIN Oman [to inspire for big Cultural Collisions event 2021]

<https://www.youtube.com/watch?v=8l7V6pY0lml&t=241s>

- Exhibition venue:

Convention Centre Muscat

'Meet the Universe' exhibition 210m<sup>2</sup>

- Science Topics:

particle physics: CERN & ATLAS, ALICE, CMS, LHCb

Gravitational waves: LIGO, VIRGO

Neutrino physics: ICEcube

- Contributions talks, lectures workshops:

Martin Hendry / LIGO

Michael Hoch / CMS

Amr Radi & Team / Local University

- Contributions material:

- Handouts CERN, ATLAS, ALICE, CMS, LHCb
- Laser interferometer : LIGO, VIRGO
- Detector Hardware: CMS





# Oman Government in the exhibition “Meet the Universe”

Secretary General of the  
Council of Ministers

*Minister of Education*

*Minister of Information Technology*







## Using the exhibition to perform :

- Talks
- Lectures
- Guided exhibition tours
- Workshops
  - Science
  - Creative

## Audience:

- Government
- High school students
- Primary school students
- University students
- General Public
  
- Presentations given by







Lectures by  
Amr Radi & SQU team  
Local Scientists,  
Particle Physics/ CERN

Dr. Martin Hendry LIGO  
Gravitational waves &  
Astrophysics

Dr. Michael Hoch CMS  
Particle Physics /CERN &  
Educational Formats







From the right Dr. Assous the head of Physics department in SQU, Dr. Maya ALAzri Ministry of Education and Undersecretary of the Ministry Education

Dr. Amr Radi & SQU University team in public engagement and student education







Creative workshops



Science Flash Mob



primary school student lectures



Creative workshops



Science workshop



creative teacher workshop





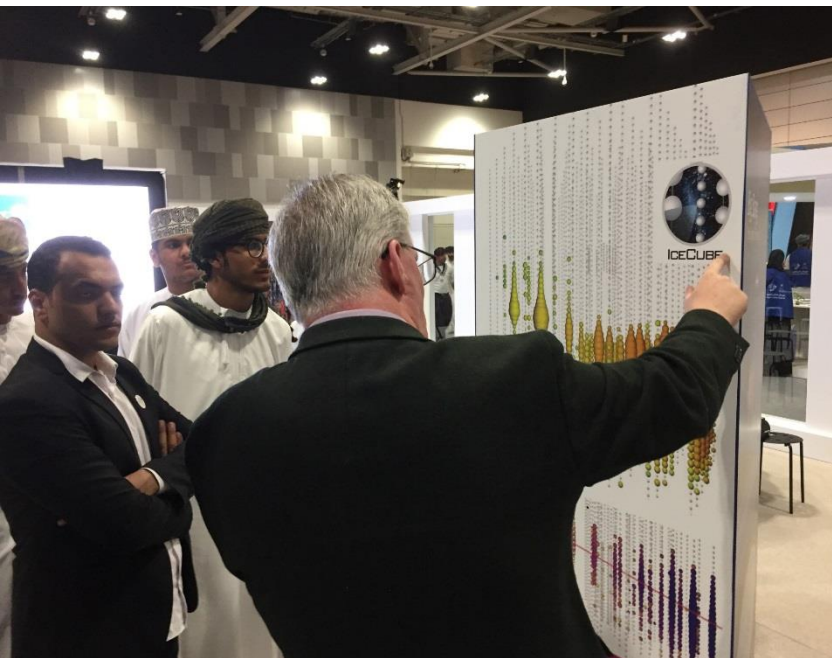
Particle Physics- masterclass  
Neutrino Physics - ICEcube



laser Interferometer WS  
Creavite Teacher Workshop



Creative Primary School Students  
CERN Virtual Visit







education material



LHC photo wall



education material



education material



space time distortion workshop



detector hardware on display





Lectures by local scientists from SQU  
introduction

children workshops

astrophysics



Public engagement by local SQU University staff



# Acknowledgement

- Thanks to the Oman Ministry of Education for the invitation and the OSF Oman Science Festival Team for the warm welcome and professional host.
- Thank to all ORIGIN partners for their contributions and support
- Thanks to the Sultan Qaboos University team for their local support and important engagement and education contributions.