

## **OXFORD AND CAMBRIDGE CLUB OF GENEVA**

Dear Members,

We are pleased to invite you and your guests to visit CERN on **Saturday 20th September 2014 at 17:15**.

CERN is the world's largest particle physics laboratory, and the Large Hadron Collider (LHC) is one of the most complex scientific instruments ever built.

You will have the unique opportunity to visit the underground cavern of the CMS detector (<http://home.web.cern.ch/about/experiments/cms>). The long-sought Higgs boson particle was discovered by CMS and ATLAS detectors at CERN. For the theoretical prediction of the Higgs boson, Professors Peter Higgs and Francois Englert were awarded the 2013 Nobel Prize in Physics.

This is one of the very last chances to visit underground facilities at CERN before restart of the LHC at the beginning of 2015. The second phase of LHC operation will run for 3 years with the objective to run the physics programme at double the energy of the first phase. This will allow further studies on the Higgs boson and open a window for new discoveries, potentially addressing unsolved mysteries of the universe such as dark matter.

### **Location:**

CERN Point 5 - CMS Experiment, Cessy, France

Google Map: <https://goo.gl/maps/xOtQt>

GPS: 46°18'38.89"N 6°4'39.67"E

Please note that the CMS detector is located in France, near Cessy, which is not easily reachable by public transport from Geneva. Please arrive there no later than 17:15.

For safety reasons, please avoid high-heel shoes or you will not be allowed to access the cavern. Everyone will be given a helmet to wear.

The visit is free of charge. Only 48 places are available. These will be allocated on a first come first served basis.

Sincerely,

Gregory Timofiejew

President,

Oxford and Cambridge Club of Geneva