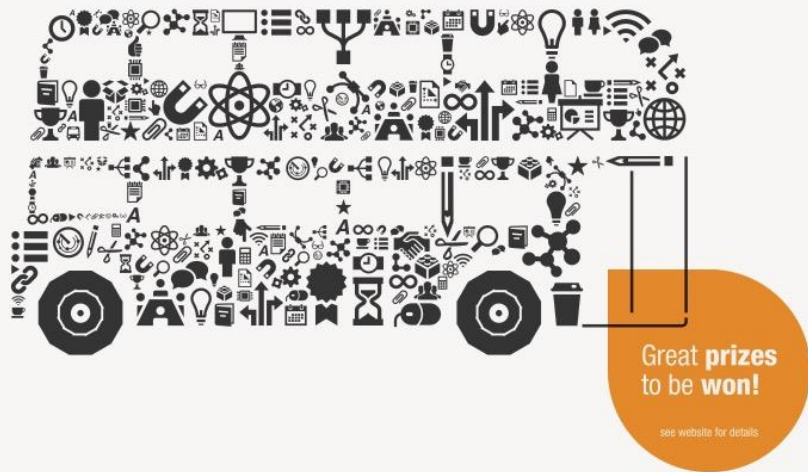


CMS CREATE

A TWO-DAY EVENT TO CHALLENGE YOUR CREATIVITY



19th - 20th November 2015

IdeaSquare, CERN

Design and develop an interactive exhibit to enhance the visitor experience at CMS Point 5, Cessy



cern.ch/cms-create
Open to all young CMS members



T O U R I S M E



Goal:

Produce a piece of hardware that will illustrate, for the general public, and kids in particular, what CMS does and how it does it.

Participants:

4 teams of
CMS members + IPAC students

Jury

Corinne Chaumontet
Head of **OTPG**

Patrick Parquet
Head of **IPAC Design**

Anne Dabrowski
CMS

Evaluation Criteria

30%: Suitability for visits

30%: Educational content

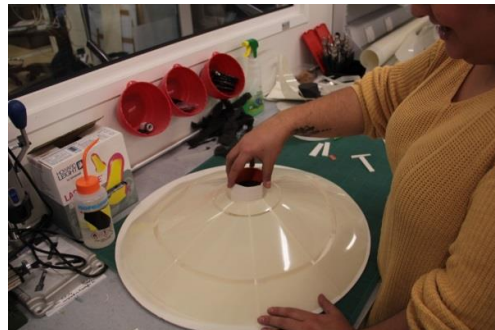
30%: Product design

10%: Reproducibility



Team 4 = Team Muon
LED strips used to represent
the function of a Muon chamber

Team 3 = Team Greane
An interactive projection of
CMS shows how particles
interact with the detector



Team 2 = Jump for a Pic
Visitors become 2 colliding
particles to discover what
happens immediately after
collisions.

Team 1 = Bosonisaurus
Visitors are guided through the
discovery of the Higgs using an
interactive board game



Diversity

25 participants

15 nationalities

36% of women

4 teams = 4 totally
original Exhibits

2 IPAC students per
team

A 33hour team project supported by advisors

CMS scientists (and guides)

Senior product designers

Tourism professionals



Pizza party included

Conceptual design



Prototyping



Presentation



The Winners!!

Team 1: Bosonisaurus

The Higgs Playground (Getting the Eureka effect)

The Playground

The centerpiece of the exhibit
Stylized CMS, gentle and engaging

The Animation

Kind professor needs help finding the Higgs
Designed to attract kids and to show how blocks go together

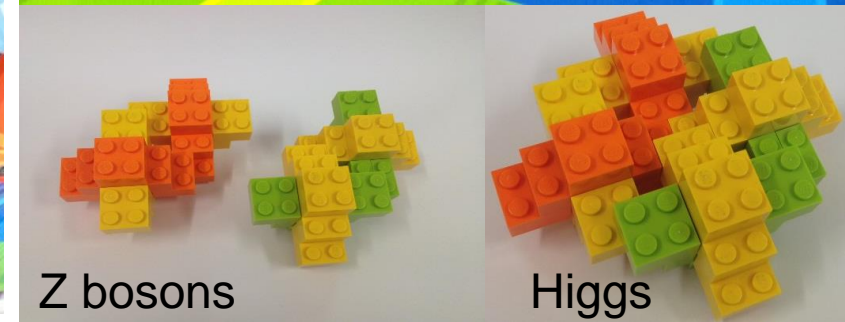
The Blocks

Energy deposits in subdetectors, color-coded, V-shape

Interlocking with magnets (currently just LEGO)

The main idea: Build particles in the right form starting from deposits ▶ shape sorter to check whether the resulting particle is a Higgs

The prototype is being turned into a full exhibit and will be installed at Point 5 by April



Thank You for your attention ... and look out for edition 2016

**More information: cern.ch/cms-create
Any Questions?**

We couldn't have done it without....

➤ Sponsors:

- CMS Communication
- CMS Technical coordination
- IdeaSquare
- Host states relations

➤ Event support team:

- Maf Alidra (Machining)
- Lars Roedne (Logistics)
- S. Beauceron, C. Lazaridis, A. Lanaro, S. Buontempo (CMS advisers)
- Constatinos Hoursoglou (Product Design - IPAC)
- Corinne Chaumontet (Tourism expert - OTPG)
- Oliver Keller (Electronics)
- Joonas Juhani Kurikka & Harri Toivonen (3D printing)

➤ Other CERN outfits for their support:

- Graphic design, EDU, COM, LOG

