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UNIVERSITEIT

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#### <u>CONTENT</u>

University and Team PresentationLocally won (Concrete) Competitions











# IN FACULTY OF ENGINEERING

Labo Magnel & Research Group Schoonmeersen

#### 2018 FRC Bowling Ball Competition

3 5 2







### **LOCALLY WON COMPETITIONS**

Organized by the Belgian Concrete Society



Belgische BetonGroepering

Title: No Mercy

#### Goal:

Produce two unreinforced concrete specimen which can resist a 6kN point load >> be as light as possible.



Infobeton Student contest 2016



#### **LOCALLY WON COMPETITIONS**



Infobeton Student contest 2016







### **LOCALLY WON COMPETITIONS**

Infobeton Student contest 2016



# In recognition of the participant's commitment to educational innovation in the field of 3D print technology



Ultimaker Education challenge







**Ultimaker Education challenge** Infobeton Student contest 2016 2017 Contest 2017:





Belgische BetonGroepering

Goal: 'make the perfect specimen' the 2 unreinforced concrete specimens must have a weight of 10N and a strength of 10kN (3-point bending test)

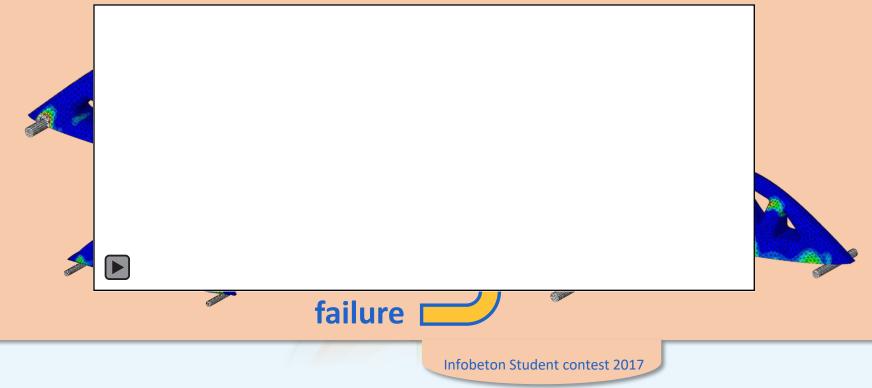
Infobeton Student contest 2017



Infobeton Student contest 2016

Ultimaker Education challenge

#### Several 3D models were designed, and analyzed in Abaqus







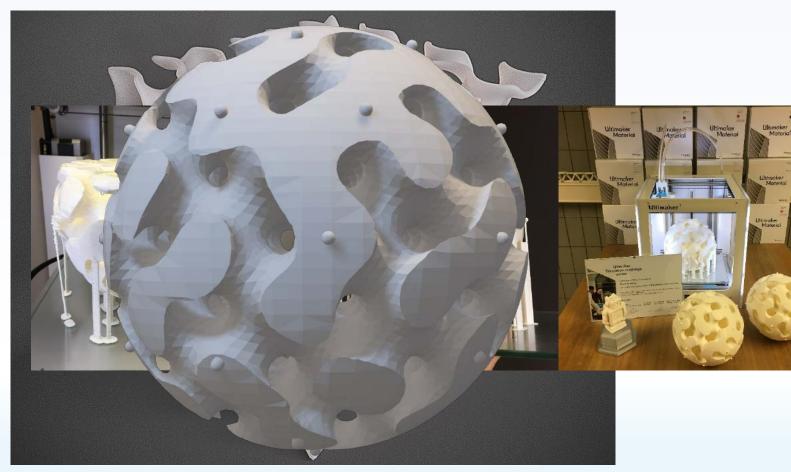
Infobeton Student contest 2017





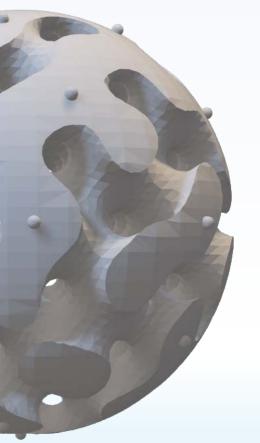


# The gyroid





# The bowling ball





# Questions?

