PRESENTATION

Hello! We are POLAR-oïde, a french team of the high school Saint Cricq in PAU, a city located in south of the section of physics). We participate in the league On Stage Advanced. Although we have a precise role in the team, we don't work only in our field.

YANN JULIEN

LOUISE

MANON

GALAXESS TEAM

The bear is attached on a plywood plate, laid on

a forklift representing the pack ice which melts at the end. The forklift are assembled with furs

that come down with a pulley and motor

system. Also, there are The pack ice and the

bear are controlled by an Arduino card. For the

pack ice, there is also a relay and an infrared sensor. It is when this one detects a body, that the pack ice goes down. In addition to this, the detection of the sensor allows to 4 panels, each one attached to a servomotor, and to light blue LEDs located in the eyes of the bear.

PURPOSE

In our representation, we want to speak about global warming because it's a hot topic, very important to us . We are young and it's our future. So, we represent an inuit with a polar bear on the pack ice and two pengouins. They live in peace and hapiness but a business woman arrives and destroys the environmement because she pollutes the floe. The ice melts and the polar bear dies

Thank you M. Metref and Verdier for your support with us!

OUR

HARDWARE

We have 3 robots: two penguins and a polarbear, attached on a lift representing the pack ice.

Our main robot is Mopy, a polar bear composed of LEDS, aluminum plates ,that we have modeled and cut, and servomotors. There are 4 servomotors to re-create the vertical and horizontal movements of the head and those of the legs (up / down). The bear is in a polar bear plush costume.







SOFTWARE

We program in C ++ and we use Arduino IDE for the Arduino card. Also, we use M-blocks to program the baby penguins (M Bots).























AR-OID



