## The helmets will go on display at the Natural History Museum next year

## Mind-bending helmet: I spy with animal eyes

## **Eithne Shortall**

TWO Irish artists have designed headsets that let the wearers see the world as animals do. The project, inspired by a 19th-century scientific invention, has had more than €24,000 in state funding and is to go on show at the Natural History Museum in Dublin.

Denis Connolly and Anne Cleary, who have exhibited at venues around Ireland and in the Pompidou centre in Paris, have designed six headsets that incorporate prisms, lenses and periscopes. These enable users to perceive the world in the manner of a hammerhead shark, giraffe, chameleon, horse and the fictional Cyclops from Greek mythology.

Another headset is inspired by the Cheshire Cat from Lewis sharks have one metre between Carroll's Alice Adventures in Wonderland.

"Part of the interest for us is presenting it as a challenge," said Connolly. "Some people will put them on for a second and go, 'Uh, that's weird.'"

The artists have previously designed headsets using LCD down and in inverted colours. They have eliminated the vision; they don't have eyes to

The hammerhead shark helmet uses periscopes and lenses to increase the user's Human beings have about a wreck their heads a little bit." 6cm gap between their eyes, allowing us to perceive the metres ahead. Hammerhead

their eyes, allowing them to judge the depth of objects up to 30 metres in front of them.

The chameleon headset uses prisms to enable people to see behind and in front at the same time. The horse headset allows wearers to see almost 360 degrees around them. It is screens that allowed users to made using fish-eye lenses, perceive the world upside prisms and weights.

"Horses have peripheral screens for this project in order to make the visual experience more authentic.

the front," said Connolly. "The only thing that stops them seeing right behind is their bums, and they have a slight blind spot in front of them.

"I have no idea what that depth of vision five-fold. will do to people. I expect it will

The giraffe headset is made with periscopes and allows depth of objects up to seven users to see the world as if they were 8ft tall.

"It's particularly interesting if you're walking in a crowd. If you've ever worn platform shoes, you know what an amazing difference that with construction. makes," said Connolly.

The artists have also created a Cyclops helmet, which incorporates bifocal lenses to bring the vision of both eyes into the centre. One eye will provide a close-up image, while the other gets a wide-angle view of the world.

The Cheshire Cat helmet incorporates mirrors and lenses. It feeds different information to each eye, allowing users simultaneously to see in front and to one side at the same time.

The helmets are to go on display at the Natural History Museum on Merrion Street next year. The Arts Council has provided €24,685 in funding.

Connolly and Cleary have completed the helmet designs and are now seeking industrial or scientific partners to help

The project was inspired by the work of George Stratton, a 19th-century American scien-

I EXPECT IT **WILL WRECK HEADS A BIT** 

tist who created glasses that inverted his vision using similar optical technologies. He wore his contraption for eight days. Initially, he felt ill but by day seven had fully adjusted.

"You could catalogue most artists' strategies as [trying to] shift perceptions; giving you a way of looking at things that you haven't had before," said Connolly.

"About 50% of our brains are concerned with looking at the world and we take a lot of it for granted. Once you shift your perception, it raises your consciousness of what you're looking at."

Other projects funded in the Arts Council's most recent round of project awards include a new play by Wexford playwright Jim Nolan and a version of Romeo and Juliet to be directed by Selina Cartmell.

