

# **2008 TAIWAN INTERNATIONAL SCIENCE FAIR**

**CATEGORY : Engineering**

**PROJECT : Night Vision Goggles**

**AWARDS : Engineering Third Award**

**SCHOOL : Dunstan High School**

**FINALISTS : Hadley Boks-Wilson**

**COUNTRY : New Zealand**

## **ABSTRACT**

Hadley has create a system that enables you to see in the dark, night-vision goggles. The military version usually retail for thousands of dollars, but Hadley's solution costs considerably less. And they really work! He has even attached close-fit rubber swimming fittings to the eyepieces to ensure you can't see a thing without the help of the electronics.

The key feature of this project is the way Hadley has used his imagination to access and modify existing technology and explore ways of 'hacking' these device to obtain useful component system that he can integrate to make a fully functioning product. In doing this he has encountered many unsuitable combinations, but has persisted to reach an extraordinarily effective endpoint. The whole process, which has taken over a year from initial idea to result is a demonstration of tenacity and ingenuity.

## 評語

- 1) 本作品以較廉便的元件與組裝方式，透過紅外線感測，研發一套可作夜視之用的觀物鏡，並配以泳式橡皮密封套頭組件，方便設備之配載
- 2) 本作品以改良組裝既有之軍用夜視鏡之功能改善為主，雖不乏創意，唯技術本身皆屬既有之元件與技術，且 **prototype** 略嫌簡陋，若能細加改善，可為佳作。