

Tekst 9



TECHNOLOGY WORTH WATCHING

E-Smart puts environmental monitoring on the spot

Engineers at the Georgia Institute of Technology have developed an environmental monitoring system that can analyse contaminants on the spot.

The system, called E-Smart, consists of sensors capable of measuring small amounts of contaminants, such as heavy metals, solvents, petroleum oil and lubricants, that are linked to data management software and hardware.

E-Smart can give a response in seconds and is sensitive enough to measure parts per billion. The sensors are expected to have applications in food safety and medical testing.

Georgia Institute of Technology:
4048943444; <http://www.gtri.gatech.edu/rco.html>

Virtual sight for a safer reality

Having watched a blind man crash into a bow-shaped cupboard his walking stick failed to detect, two Austrian students have devised a small ultrasonic scanner that alerts the wearer to obstacles ahead, *writes Marcus Gibson.*

Fitted to the upper arm, it provides protection for the "exposed" area – between the hip and head, often missed by trusty sticks. Paul Pak and Peter Weilenmann from the HTBLA engineering school in Klagenfurt say the scanner can "see" objects up to 5m away. A small motor built in the system generates a vibration to warn the user.
Virtualblindmanscane: Austria, tel 43 664 255 9540

Vanessa Houlder

*'Financial Times',
October 18, 1998*

Tekst 9 Technology worth watching

2p 34 'E-Smart puts environmental monitoring on the spot' (titel eerste tekst)
Waarvoor dient het E-Smart systeem?

1p 35 'a small ultrasonic scanner' (tweede tekst, eerste alinea)
Zou je een blinde adviseren om dit apparaatje samen met of in plaats van een blindenstok te gebruiken?
Antwoord "samen met" of "in plaats van" en licht je antwoord in één zin toe.