**Smart Crosswalk for Pedestrians**

UMBRELLIUM, a software design company has come up with ‘STARLING Crossing’ to account for the safety of pedestrians. STigmergic Adaptive Responsive LearnING is an interactive crossing concept that responds dynamically in real-time to different conditions and is able to modify the patterns, layout, configuration, size and orientation of pedestrians crossing. The entire road surface at the crossing area is monitored by cameras and embedded with computer controlled LEDs that can be seen from all angles during both day and night. The system can learn traffic patterns over time and adapt the displayed markings accordingly.

*Source: www.bornetoengineer.com*

**The Prynt Pocket**

PRYNT pocket is the first ever device that can turn the smartphone into an instant camera. The device for Android users uses sticker paper and can print around 20 photos per page. The device is using ZINK ink-free thermal printing technology and produce instant Poloroid-style sticker photo from the smartphone. Using the system’s app, users can make a short video from which a still image is generated and printed.

*Source: www.kickstarter.com*

**Magnetic Fabric Stores Security Codes Invisibly**

AN innovative magnetic fabric developed at the University of Washington could let people store their passcodes in their clothes. The fabric is made up of conductive thread to store digital data. The codes can be created in clothes by rubbing the fabric in specific sections with magnets generating the pattern that can be read by simple magnetometers. The code embedded fabric can also be machine washed without damaging the data. This is a completely electronic free design that can withstand by the temperature up to 320°F. The researchers also created fashion accessories like a tie, belt, necklace and wristband to decode the data by swiping a smartphone across them.

*Source: www.washington.edu*
High-Tech Ring Detects Explosives

SMART ring that detects invisible chemical and biological threats in the wearers’ environment. The ring consists an electrochemical sensor cap for detecting specific compounds and a circuit board that processes data and transmits it wirelessly to a smartphone or laptop. The ring can perform voltammetric and chronoamperometric analyses and is able to detect wide range of threats in vapour or liquid forms including DNT (2,4-dinitrotoluene), MPOx (Methyl paraxon) and aqueous H₂O₂ (hydrogen peroxide). The paper on the research was published in the journal ACS Sensors.

Source: www.gadgetsnow.com

Electric Paper for Leaks in Pipes

SCIENTISTS at the University of Washington have designed a smart paper capable of sensing water and conducting electricity. The paper, laced with conductive nanomaterials, can be employed as a switch, turning on or off an LED light or an alarm system indicating the absence or presence of water. It could also be used to detect trace amount of water in fuels. A paper on the research was published in the Journal of Materials Chemistry A.

Source: www.upi.com