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# Displays

## Tech Pulse

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Wednesday, May 28, 2014

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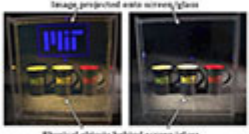
### QDs Up Display Color, Brightness with Less Power

Quantum dots (QDs) could be the next big thing in display technology, allowing screens to display brighter, more realistically vivid colors but without draining battery life, recent research suggests.

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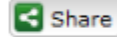
### Nanoparticle Scattering Leads to Transparent Projection Screen



Physical objects behind screen/glass

A transparent display would allow ambient light to pass through while color-selective nanoparticles reflect an image from a laser projector. As a proof of concept, a team from MIT has developed a screen that interacts preferentially with blue light.

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### Fused Fiber Optics: Changing the Shape of Displays

The burgeoning gaming industry, the ever-evolving automotive sector and the display industry as a whole are demanding new technology that will enhance a user's experience. Fiber optic faceplates are rapidly becoming the solution of choice. When bonded to your conventional display, Incom's fused fiber optics can bring life to your next project. Unprecedented flexibility in the shape and size of a fiber optic means your display can now have any outer geometry imaginable; circular, triangular, or even a star. Even a curved display surface (spherical, cylindrical or complex), previously impossible with a standard display, is now an option!

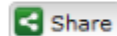
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### System Pushes Better Light Control



Angle-specific filters could be applied to display screens on phones or computers, allowing only those directly in front of them to see what is displayed.

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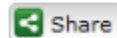


### Solar Cell by Day, Light Panel by Night



A hybrid perovskite material found to emit as well as absorb light could be suitable for display devices, potentially leading to smartphones and tablets that recharge themselves with solar power.

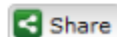
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### Project Aims for Unbreakable Displays

Curved displays for automotive or advertising applications need to have some flexibility, while the market for rugged displays continues to grow. A German research consortium is working with industry partners to develop robust, lightweight displays using flexible plastic foils instead of glass substrates.

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