



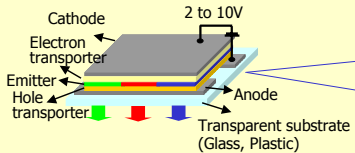
# ORGANIC LIGHT-EMITTING DISPLAYS

Dr. Zakya H. Kafafi (kafafi@nrl.navy.mil)

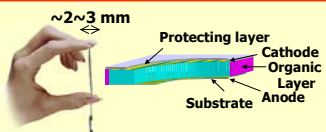


## What is an OLED ?

An OLED is an organic light-emitting diode that forms the pixel for an organic electro-luminescent display.



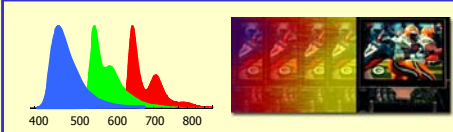
An exciting and fast growing flat panel display technology



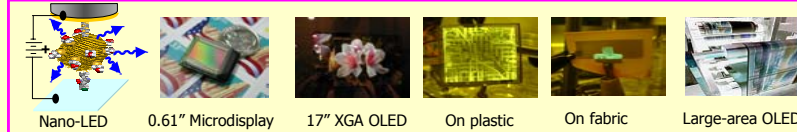
**Thin** **Simple process**



**Bright** **Wide viewing angle**



**Full color** **High resolution**



**Versatility in size and substrates**

## Present



Smart card



Indicator for electronic devices



Car stereo



PDA/video watch



Dashboard display/navigator



Viewfinder for camcorder/camera



Universal communicator

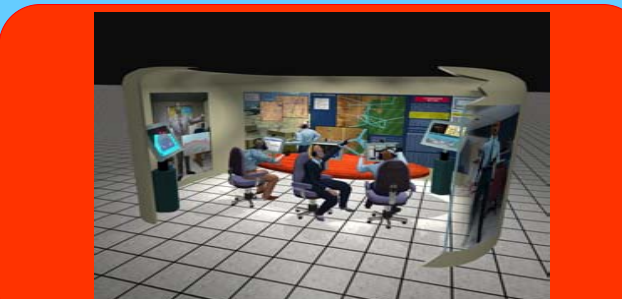


Monitor/midsize TV



Microdisplay

## DEFENSE FLAT PANEL DISPLAY VISION



Future command center

## Future



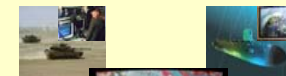
Daylight/starlight readable displays



Combat control and communication systems



Head mount displays



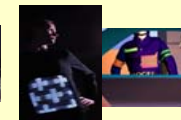
Workstation, map table command center displays



Cockpit display systems



Indoor/outdoor lighting



Wearable displays



Large-area flexible displays