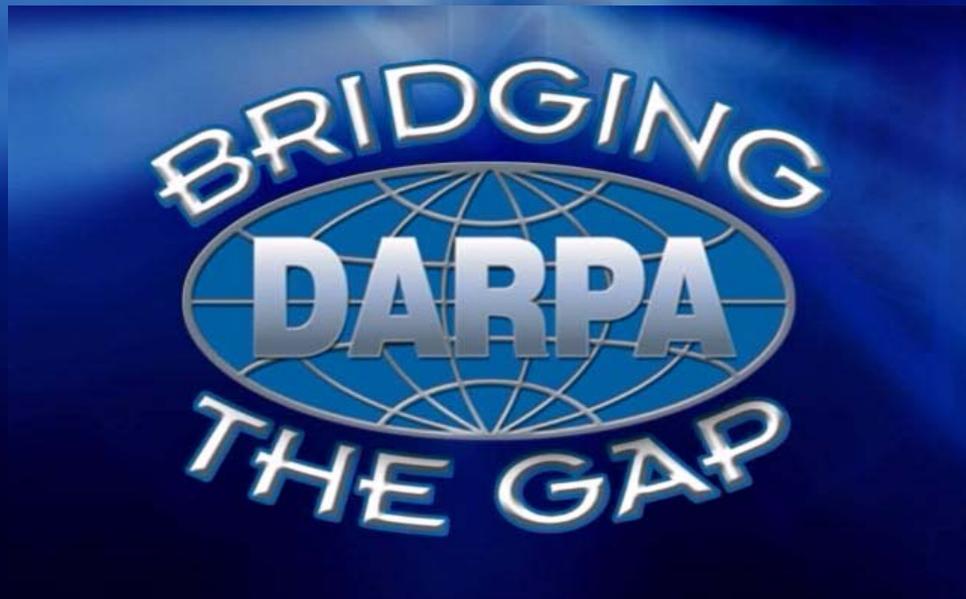


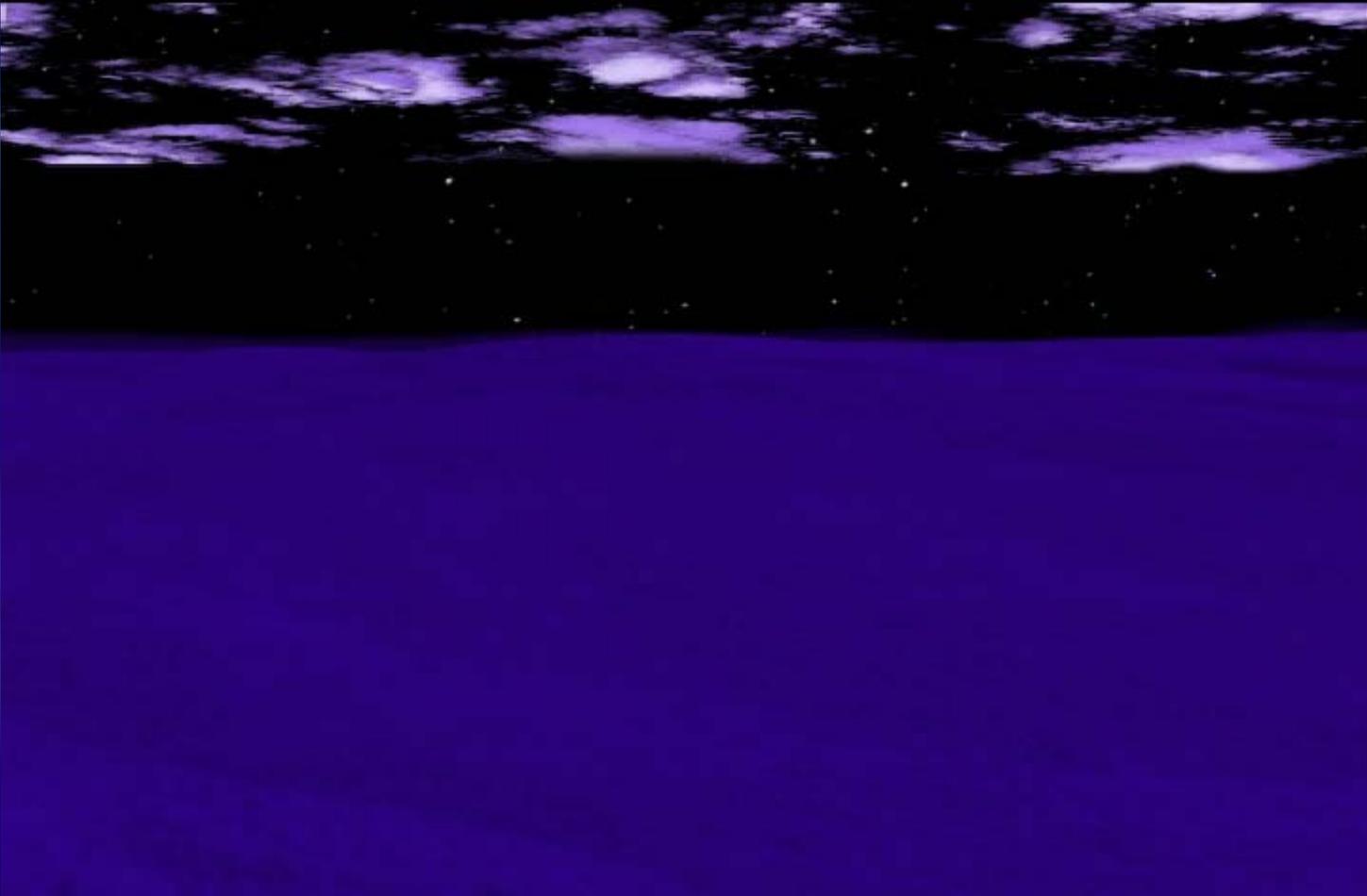
**BRIDGING
DARPA
THE GAP**

Bridging the Gap

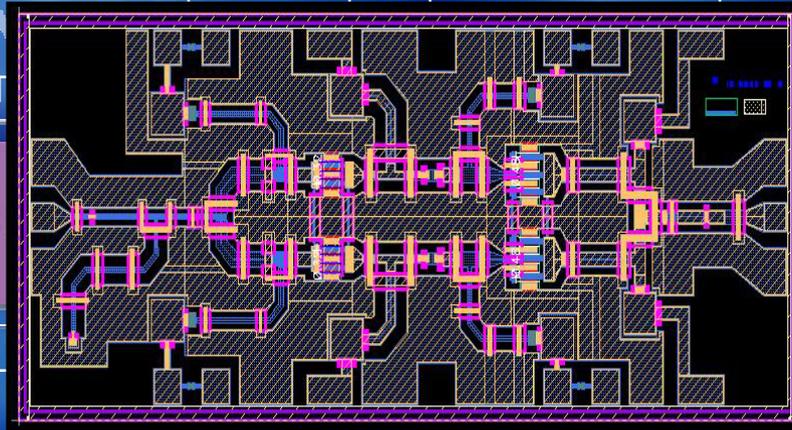
Mark J. Rosker, Ph.D











W A Y

B E T H

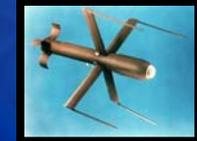
1 M

1 MM

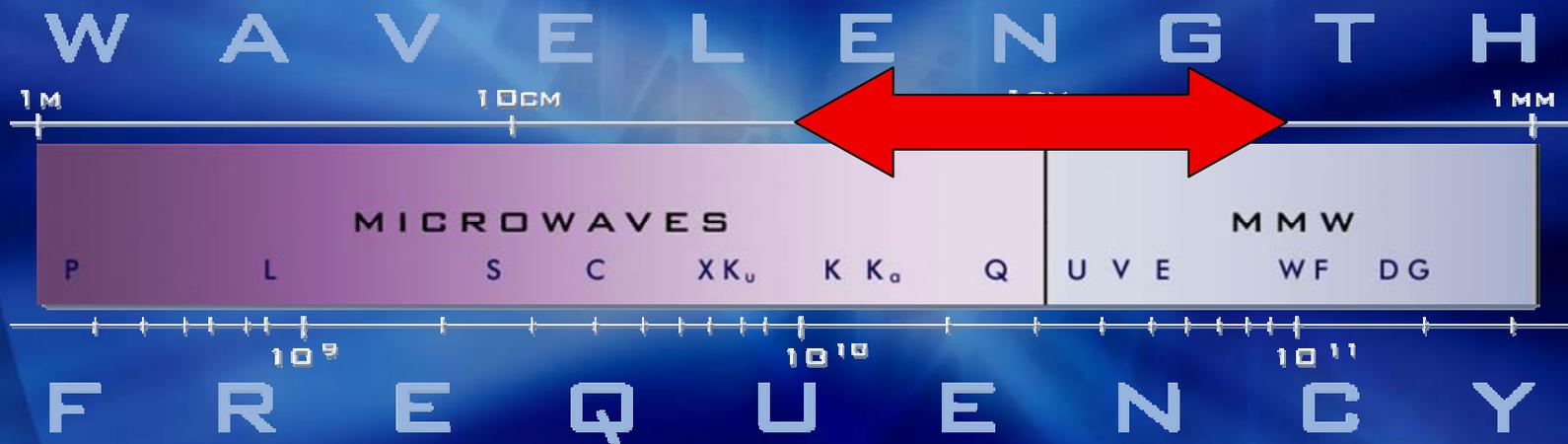


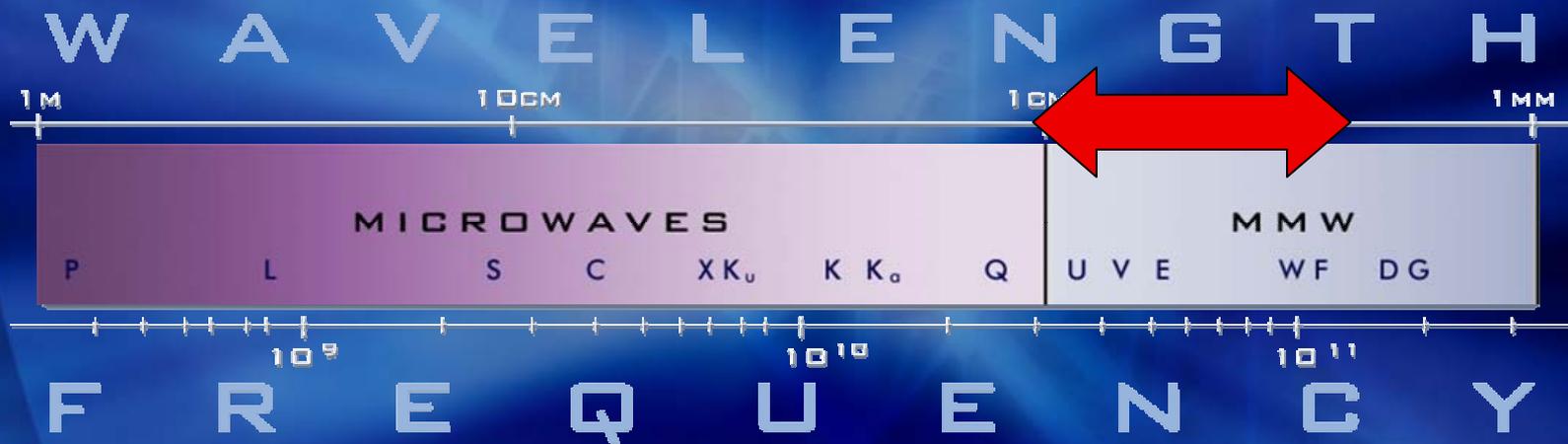
F R

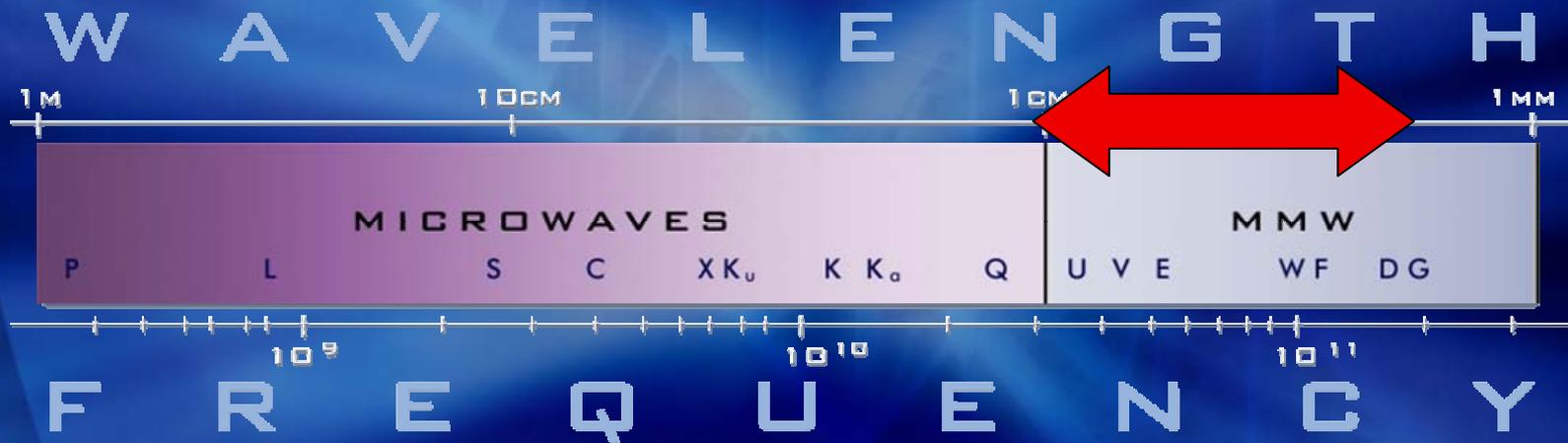
C Y



BRIDGING
DARPA
THE THz GAP







W A V E L E N G T H

0.1 mm

10 μ m

1 μ m

INFARED

VISIBLE

10^{13}

10^{14}

10^{15}

F R E Q U E N C Y



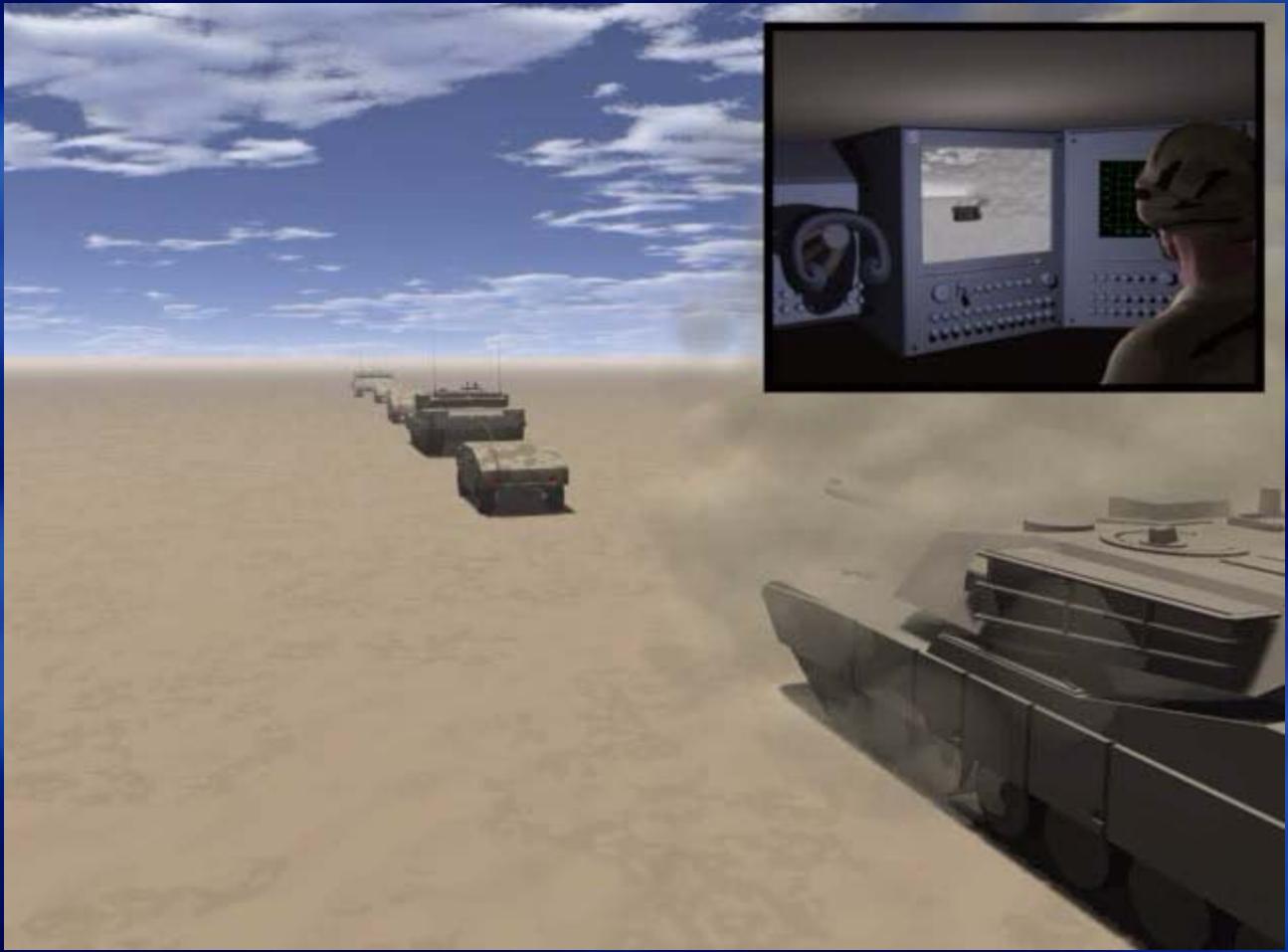






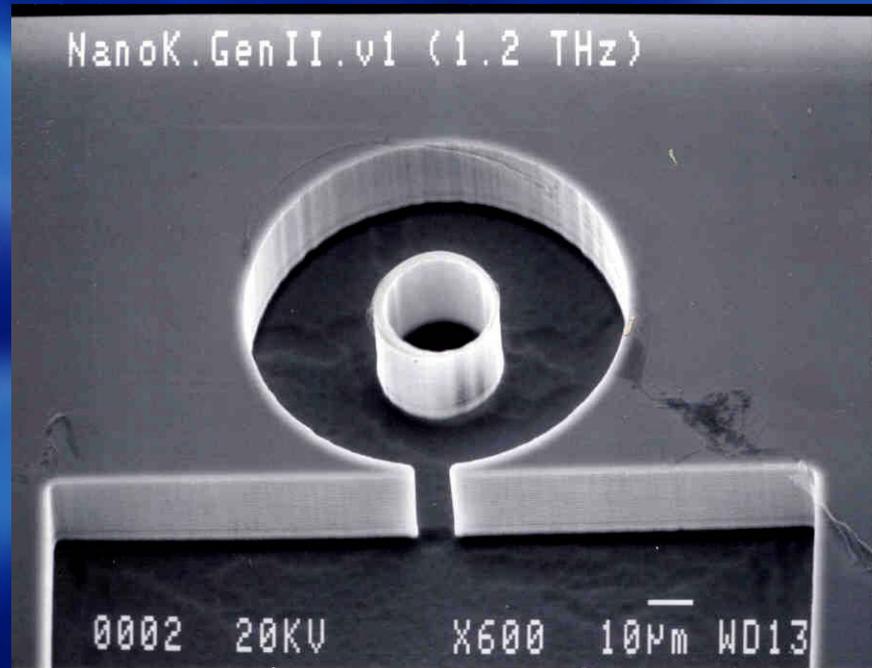




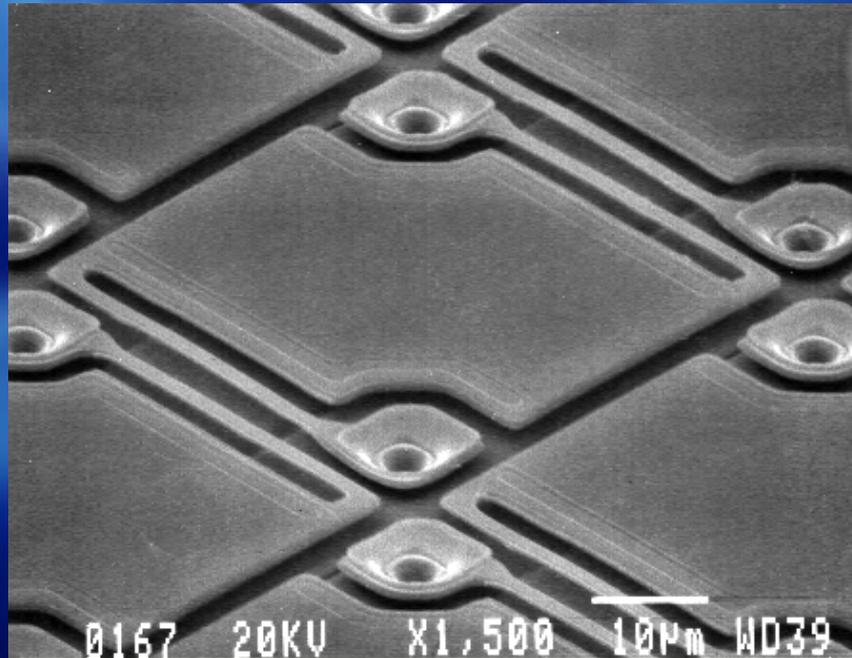




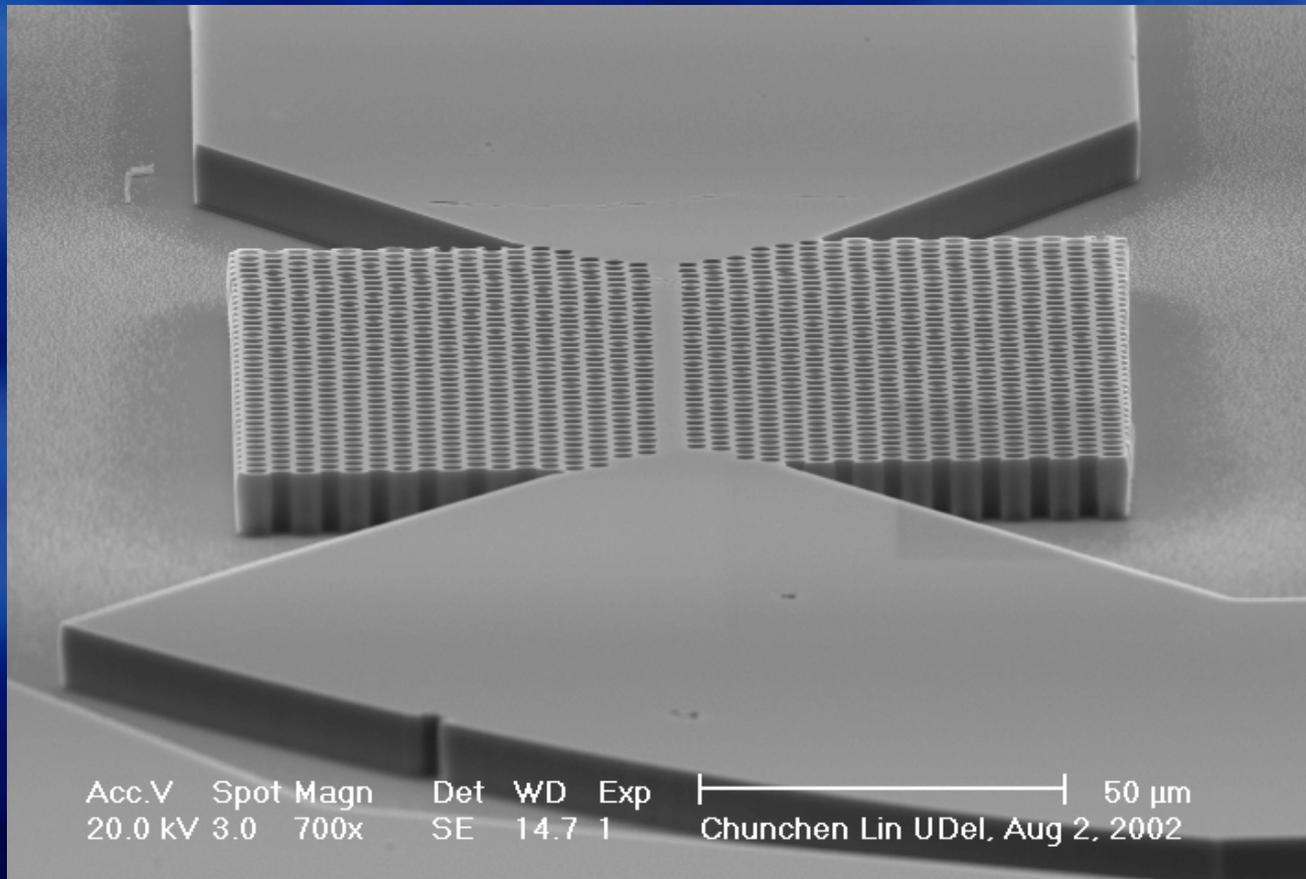
New sources of THz radiation



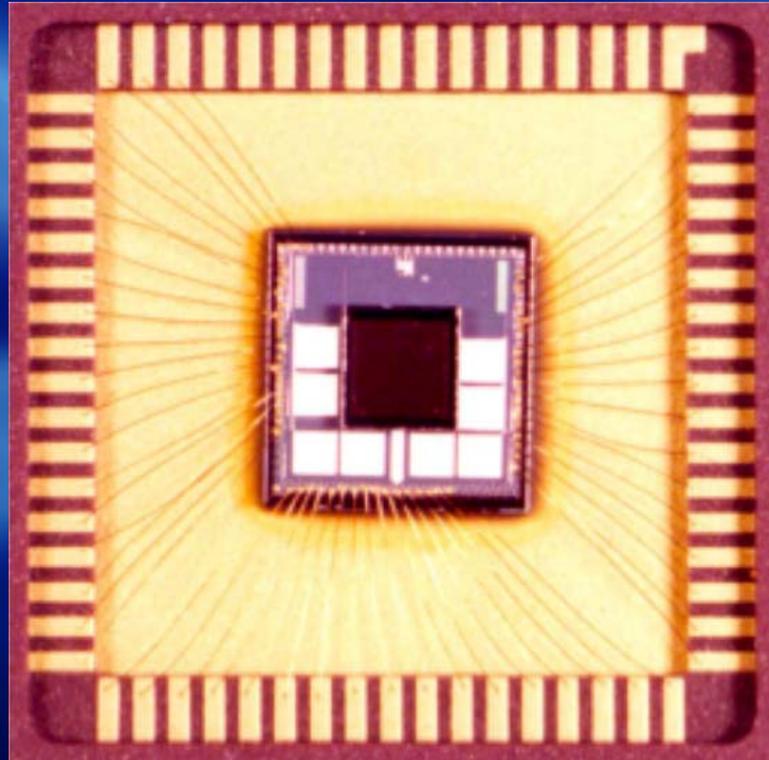
Sensitive THz receiver arrays



Low-loss THz interconnects



Backend signal processing



Chemical sensors



Non-destructive evaluation



Communication systems with enormous bandwidths



Secure communications



Bridging the Gap

Mark J. Rosker, Ph.D

