



# Dream Big, Think Small:

## *The Amazing World of MEMS & Nanotechnology*

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## Nanotechnology...

- Is the “Emperor’s New Clothes” of the 21<sup>st</sup> Century
  - You can’t see it, but it’s cool!
- Is an umbrella term encompassing both science (nano) and engineering (MEMS)
- What about nanobots and intelligent swarms?



## Public Perception

- Controversy and new technology go hand in hand
- Nanotechnology vs. *nanoscale*
- Natural vs. man-made
- Hard vs. soft particles
- “Which is Worse” scenario?



MEMS & Nanotechnology have moved far beyond golf balls, khaki pants, home inkjet and car airbags...





## Welcome to the Future

- Clothing: anti-spill, anti-stain, anti-odor, anti-static, anti-pollen and even anti-sand!
- Food: adding nutritional value without affecting taste; stronger, lighter, biodegradable plastic bags and packages
- Home: anti-mold, anti-corrosion, and super thin insulation; self-cleaning, scratch-free and fade-resistant surfaces
- Recreation: improved performance, increased focus on safety
- Medicine: Diagnostics, monitoring, elder care, robotics



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