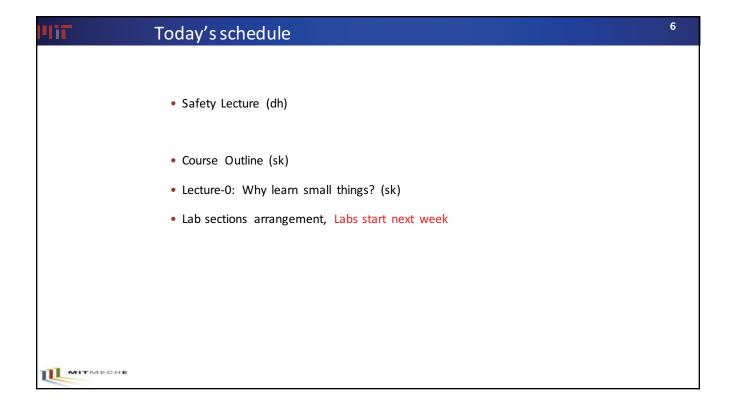
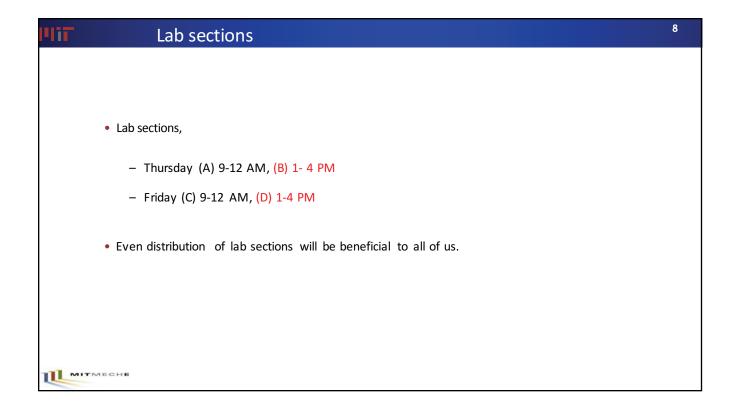


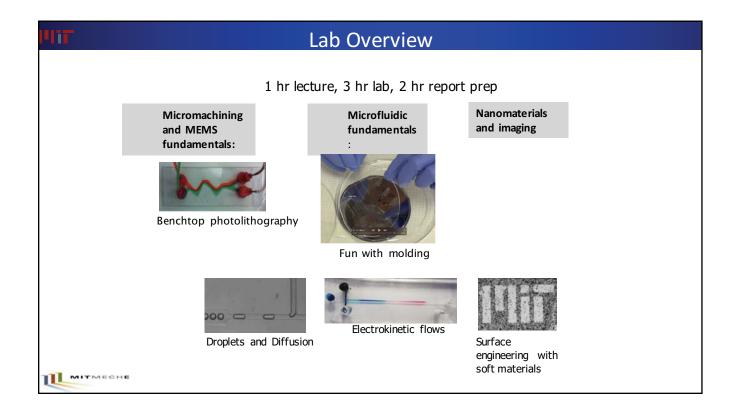
## • EHS Chemical Hygiene Web Training certificate - Two weeks from today, 2/016/2016, by noon - e-mail to Benita - Already have a certificate ? Just email us a pdf copy.

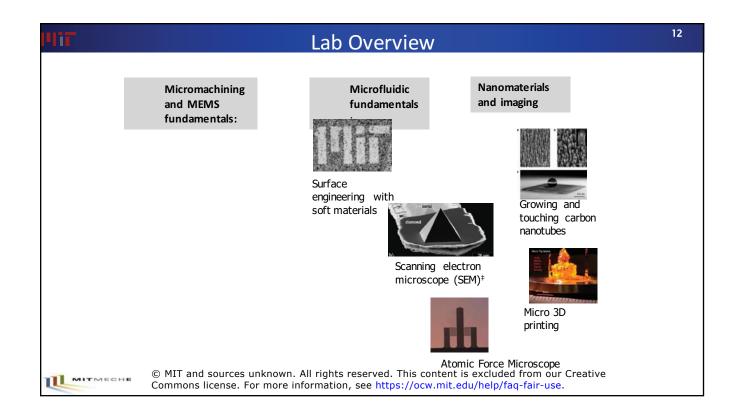


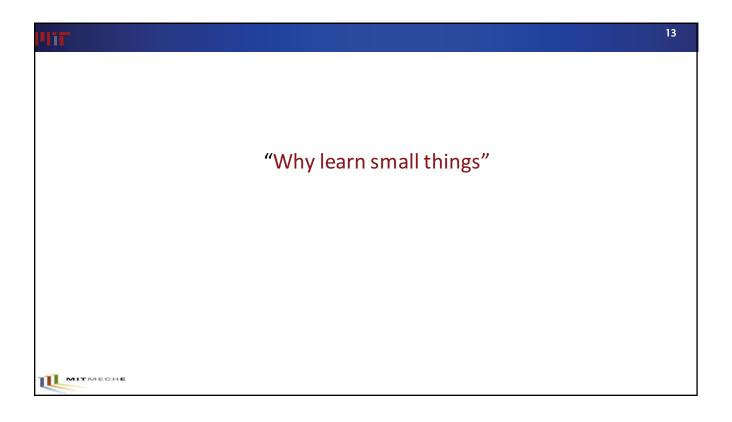
## • 1 hour lecture Just a brief introduction for each lab modules and related technology • 3 hour lab Lab manual will be handed out during lecture. (11 lab modules in 5 bindings) • Lab Reports Due at the lab one week after the module. Submit a hard copy of a word processed document.

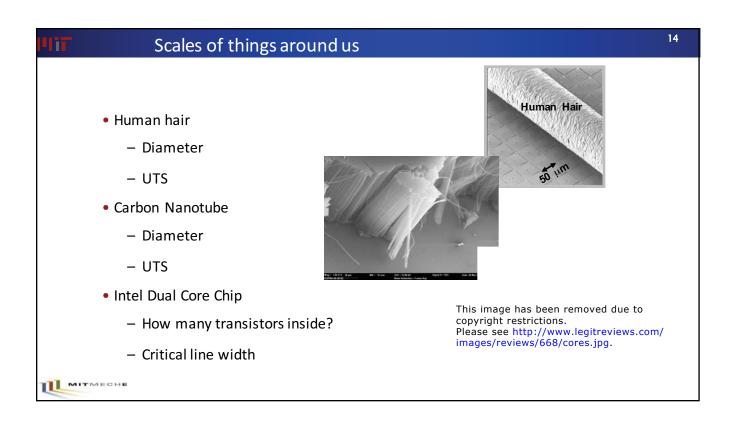


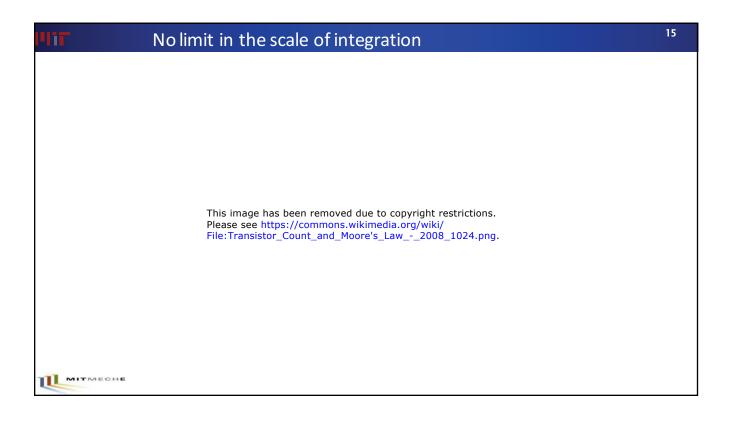
## Three technology streams (in 11 lab modules) Micromachining and MEMS fundamentals: material properties, fabrication technologies, basic structural mechanics, sensing and actuation principles. Microfluidic fundamentals: design and fabrication of microfluidic devices, physics of pressure-driven, viscous, laminar flow, electrokinetic flow, thermo-fluid systems. Nanomaterials: Self-assembly, CNT growth and observation, structural characterization techniques such as SEM, STM, AFM (and TEM).

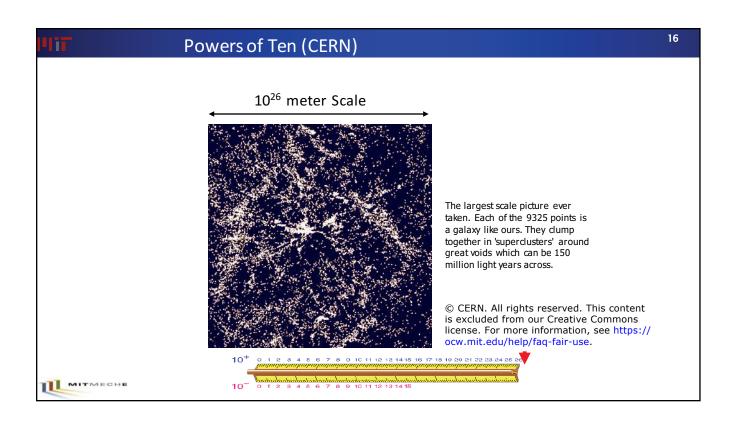


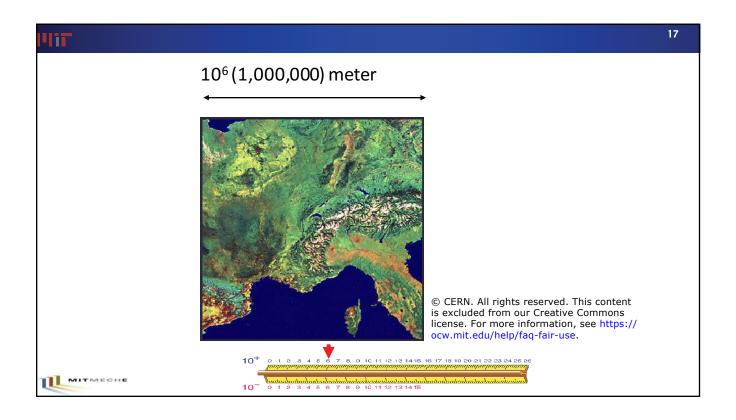


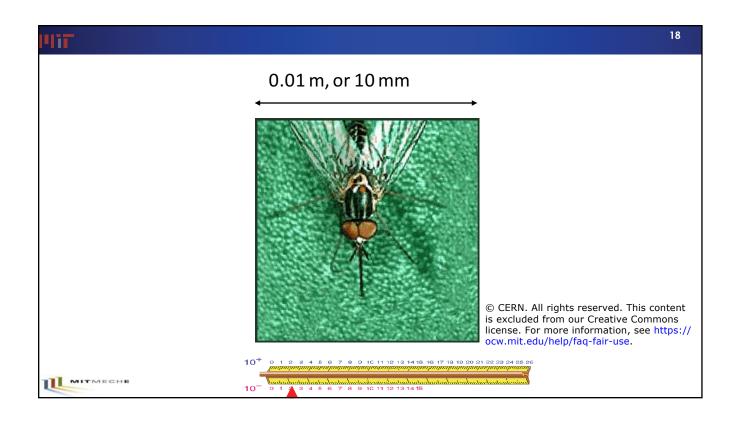


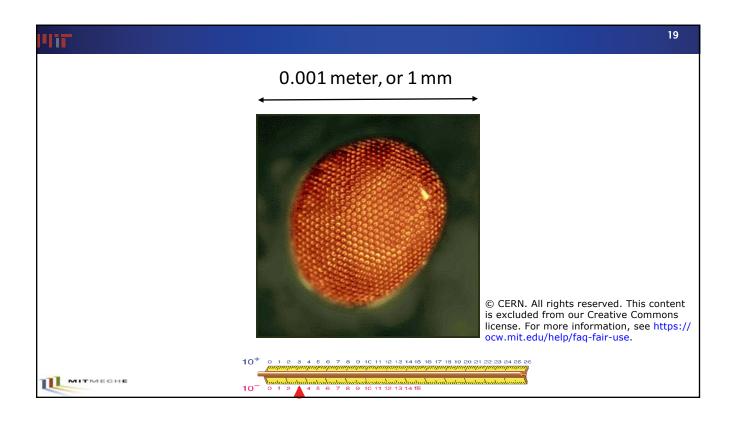


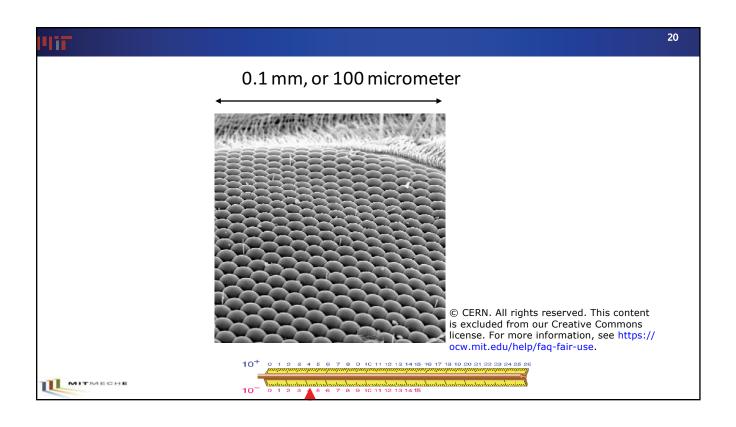


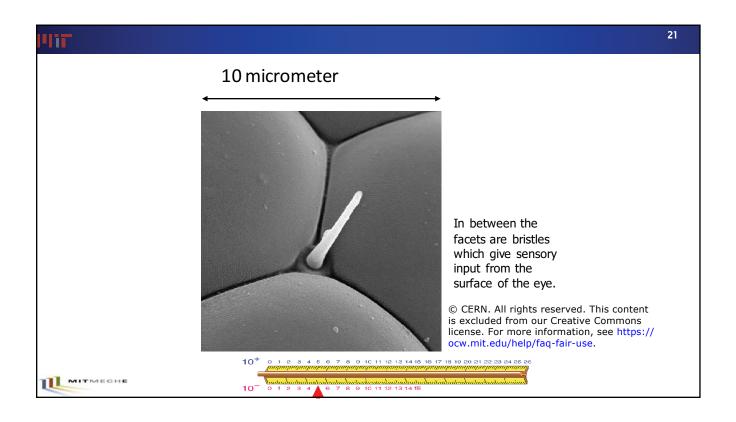


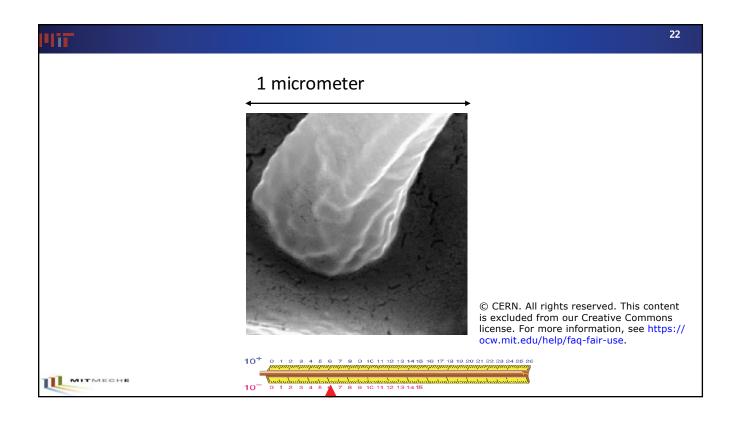


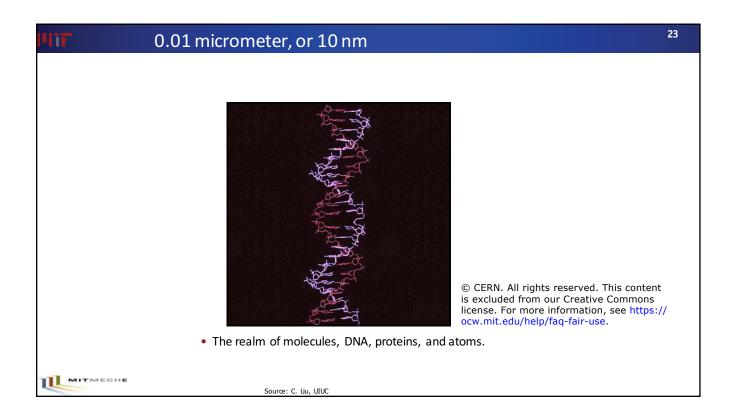


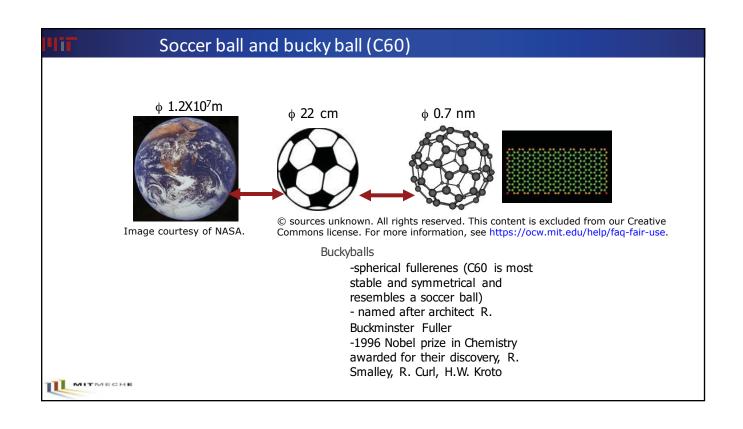




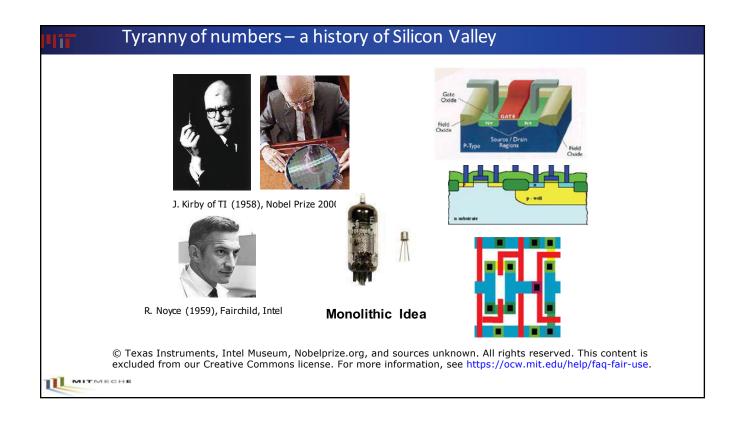








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