

National Aeronautics and Space Administration



The Microgravity Market for Commercial Space

ISPCS

October 21, 2010

Dennis Stone

Commercial Crew & Cargo Program
National Aeronautics and Space Administration

COMMERCIAL CREW & CARGO



“Microgravity’s been around for a long time. Didn’t we try this before?”

“If there really were customers, they would’ve contacted us.”

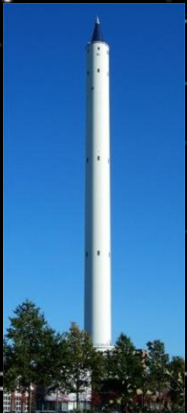
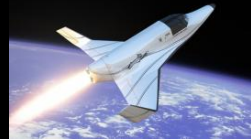
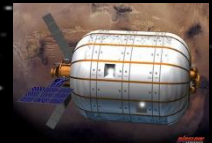
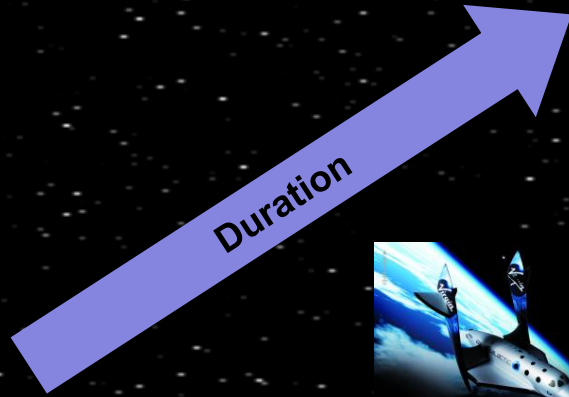


“There’s no market because NASA cut the funding.”

“Why talk about it now? Has something changed?”

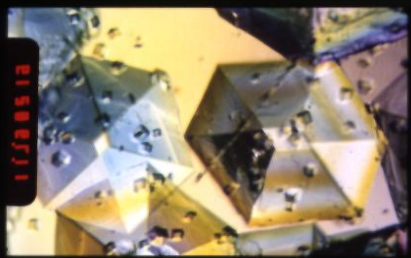


Microgravity: The Supply



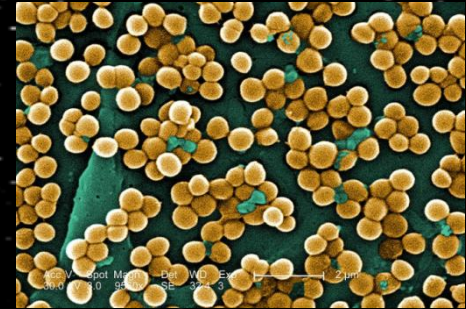


Microgravity: The Demand



Macromolecular Structures

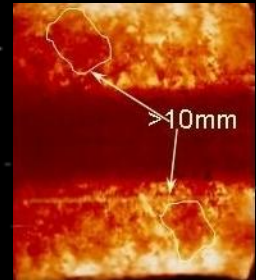
New Cultivars,
New Vaccines



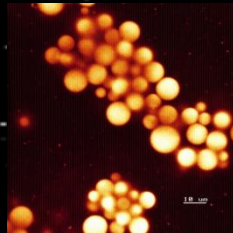
Unmask the Impacts of 1g

Sedimentation Convection
Hydrodynamic Shear
Hydrostatic Pressure
Diffusion

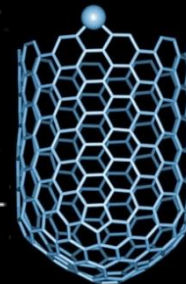
3D Tissues



Combustion,
Fluids, Materials
R&D

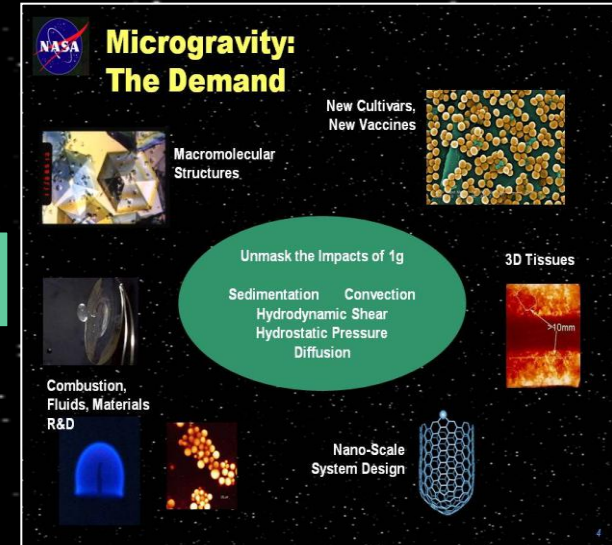
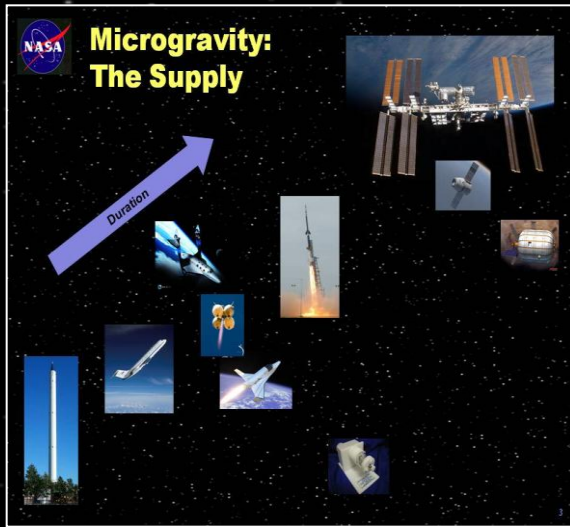


Nano-Scale
System Design





Microgravity: Developing the Market



Market

Platform-unique Marketing

Industry Education Campaign

Resellers

Prizes

Joint Marketing

Standards

Brokers

Grants

Demos

Miniaturize Payloads

Partnership Centers



Panelists

- **Dr. Cheryl Nickerson, Arizona State Univ.**
- **Andrew Nelson, XCOR Aerospace**
- **Chris Cummins, Nanoracks**