



## Experiments Flying in MDA units on the Consort 4 Sounding Rocket Flight

<u>Experiment</u>	<u>Principal Investigator</u>	<u>Institution/ Company Affiliation</u>	<u>Application</u>
1. Crystal Seed Holding Mechanism Engineering Tests	U. Alvarado	ITA	Feasibility of concepts for seed crystal support during mixing and crystal growth
2. Liquid-Solid Diffusion Engineering Tests	V. Cassanto	ITA	Measurements of a fluid into a solid in microgravity for crystal growth, and seed germination experiments
3. Cellular Membrane Structure	Dr. M. Lewis Dr. D. Sammons	CMDS, Huntsville Alabama University of Arizona	Understanding of cell biochemistry for long duration flights/ Control human infectious agents on earth and in space
4. Magnetic Mixing for Cell Fixation	Dr. M. Lewis	CMDS, Huntsville Alabama	Measurements of magnetic cell mixing for better fixation of cell microgravity experiments
5. Plant Cell Culture Energetics	Dr. R. G. McDaniel	University of Arizona	Plant survival in low gravity
7. Unilamellar Liposomes	Dr. Ben Mosier Dr. Dennis Morrison	Institute for Research, Houston, TX	New form of contrast medium delivery
8. Protein Microencapsulation	Dr. Ben Mosier Dr. Dennis Morrison	Institute for Research, Houston, TX	Delivery of therapeutic drugs for Cancer, AIDS, and the Flu
3. Microbial Cell Transport	Dr. P. Todd	University of Boulder Colorado	Water processing, contamination and disinfection technology (Earth systems and long term space missions)
4. Electrolyte Diffusion in Electrolyte Solutions	Dr. P. Todd	University of Boulder Colorado	Diffusion measurement of electrolytes between phases, and dependence of electrolyte diffusivity on ionic compositions
11. Polymer Membrane Casting	I. Vera	ITA/Decision Analysis Corporation Washington D.C.	Improvements in morphological structures of membranes in medicine, industry, and science.
12. Membrane Casting	B. Whitmore	Battelle Advanced Materials Center, Columbus Ohio	Improvements in morphological structures of membranes in medicine, industry, and science.

Note: All Principal Investigators arranged by alphabetical order.

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