

Co-Investigators

The investigations being conducted on the Second United States Microgravity Laboratory bring together Government, academia, and private industry along with teams of scientists, engineers, technicians, and support staffs whose cooperative efforts make possible the mission and its experiments. These people are an integral part of all space-based research and help ensure the success of the mission, the success of each experiment, and the widest possible distribution of these results.

Astroculture™

Co-Investigator	Affiliation
R. Morrow	Wisconsin Center for Space Automation and Robotics
T. Tibbets	Wisconsin Center for Space Automation and Robotics

Commercial Generic Bioprocessing Apparatus Experiment

R. Consigli	Kansas State University
E. Gillock	Kansas State University
S. Rottinghaus	Kansas State University
S. Smiley	Kansas State University
A. Paulsen	Kansas State University
C. Nunes	Bioserve Space Technologies
M. Kacena	Bioserve Space Technologies
P. Leonard	Bioserve Space Technologies
S. Simske	Bioserve Space Technologies
M. Luttgies	Bioserve Space Technologies
B. S. Spooner	Kansas State University
J. Rosowski	Kansas State University
P. Moos	Kansas State University
T. C. Johnson	Kansas State University
S. Chapes	Kansas State University
J. Armstrong	Kansas State University
N. Betz	Kansas State University
B. Westhoff	Kansas State University
T. Johnson	Kansas State University
M. Voorhees	Bioserve Space Technologies
B. Van Lee	Bioserve Space Technologies
J. Guikema	Kansas State University
W. Odom	Kansas State University
E. Hillaire	Kansas State University
G. Gallegos	Kansas State University
J. Westburg	Kansas State University
M. Jurgensmeyer	Kansas State University
T. Armbrust	Kansas State University
D. Klaus	Bioserve Space Technologies
A. Hoehn	Bioserve Space Technologies
J. Campbell	Bioserve Space Technologies
J. Smith	Bioserve Space Technologies
M. Miller	Bioserve Space Technologies

Orbital Processing of High-Quality Cadmium Zinc Telluride (CdZnTe) Compound Semiconductors

D. Gillies	NASA/MSFC
J. I. Alexander	University of Alabama in Huntsville
F. Carlson	Clarkson University
J. Moosbrugger	Clarkson University
M. Dudley	SUNY-Stoney Brook

The Study of Dopant Segregation Behavior During the Crystal Growth of GaAs (Gallium Arsenide) in Microgravity

D. Carlson	M/A Comm
J. Kafalas	Viable Systems
M. Kaforey	Case Western Reserve University

Crystal Growth of Selected II-VI Semiconducting Alloys by Directional Solidification

F. R. Szofran	NASA/MSFC
R. N. Andrews	University of Ala. in Birmingham
C. H. Su	USRA Visiting Scientist/NASA/MSFC
L. Bubulac	Rockwell International Science Center

Drop Dynamics Experiment

C. P. Lee	Vanderbilt University
A. Anilkumar	Vanderbilt University
E. Trinh	NASA/JPL

Science and Technology of Surface-Controlled Phenomena

G. Holt	NASA/JPL
---------	----------

Geophysical Fluid Flow Cell Experiment

J. Toomre	University of Colorado
F. Leslie	NASA/MSFC
T. Miller	NASA/MSFC
D. Hathaway	NASA/MSFC
G. Glatzmaier	Los Alamos National Laboratory
D. Ohlsen	University of Colorado

Interface Configuration Experiment

R. Finn	Stanford University
M. Weislogel	NASA/LeRC

Oscillatory Thermocapillary Flow Experiment

S. Ostrach	Case Western Reserve University
A. Pline	NASA/LeRC

Fiber Supported Droplet Combustion

D. Dietrich	NASA/LeRC
F. Dryer	Princeton University
J. Haggard	NASA/LeRC
V. Nayagam	NASA/LeRC
B. Shaw	University of California, Davis

Protein Crystal Growth-Glovebox

See Commercial Protein Crystal Growth

Colloidal Disorder-Order Transitions

W. Russel	Princeton University
-----------	----------------------

Lower Body Negative Pressure

J. T. Brown	NASA/JSC
-------------	----------

Space Acceleration Measurement System

R. Sicker	NASA/LeRC
-----------	-----------

Orbital Acceleration Research Experiment

J. L. Christian, Jr.	NASA/LeRC
----------------------	-----------

Commercial Protein Crystal Growth

E. Arnold	CABM Rutgers
D. Carter	NASA/MSFC
C. Chang	E. I. DuPont de Nemours
J.-P. Declercq	Universite catholique de Louvain
B. Dijkstra	University of Groningen
D. Eggleston	Smith Kline Beecham Pharmaceuticals
H. Einsphar	The Upjohn Company
A. Frankel	Florida Hospital Cancer & Leukemia Research Center
J. Knox	University of Connecticut
C. Kundrot	University of Colorado
P. Lu	University of Pennsylvania
A. McPherson	University of California, Riverside
E. Meehan	University of Alabama in Huntsville
T. L. Nagabhushan	Schering-Plough Corporation
R. Naumann	University of Alabama in Huntsville
M. Navia	Vertex Pharmaceuticals
W. Stallings	Searle Research and Development
F. L. Suddath	Georgia Institute of Technology
M. Sundaralingam	Ohio State University
D. Voet	University of Pennsylvania
K. Ward	Naval Research Laboratory
M. Wardell	University of Cambridge
P. Weber	DuPont Merk Pharmaceutical
J.-P. Wery	Eli Lilly & Company
D. Yang	McMaster University

Surface Tension Driven Convection Experiment

Y. Kamotani	Case Western Reserve University
-------------	---------------------------------

Zeolite Crystal Growth

A. Dixon	Worcester Polytechnic Institute
R. Thompson	Worcester Polytechnic Institute

Hardware Developers

Advanced Protein Crystallization Facility

K. Fuhrmann ESA/ESTEC

Astroculture™

R. Morrow Wisconsin Center for Space
Automation and Robotics

Commercial Generic Bioprocessing Apparatus

L. Stodieck Bioserve Space Technologies

Crystal Growth Furnace

D. Schaefer NASA/MSFC

Drop Physics Module

D. Gallagher NASA/JPL

Geophysical Fluid Flow Cell

G. Hall NASA/MSFC

Glovebox

R. Ruff NASA/MSFC

Lower Body Negative Pressure Apparatus

T. Brown NASA/JSC

Spacelab Acceleration Measurement System

R. Sicker NASA/LeRC

Orbital Acceleration Research Experiment

J. Christian, Jr. NASA/LeRC

Three Dimensional Microgravity Accelerometer

J. Bijvoet University of Alabama in Huntsville

Single-Locker Protein Crystal Growth Apparatus

B. Herren NASA/MSFC

Commercial Protein Crystal Growth Apparatus

J. Nordness Center for Macromolecular
Crystallography

Surface Tension Driven Convection Experiment Apparatus

T. Jacobson NASA/LeRC

Zeolite Crystal Growth Facility

L. McCauley Battelle Advanced Materials Center
for the Commercial Development
of Space

Mission Management

Coordinating the activities of the investigators, hardware developers, hardware integrations teams, and operations teams that make up the Second United States Microgravity Laboratory is a complex task. The NASA mission management team performs these duties and others necessary to provide an opportunity for a scientifically successful mission.

Program Manager	Mr. Jim McGuire	NASA Headquarters
Program Scientist	Dr. Mark Lee	NASA Headquarters
Mission Manager	Mr. Paul Gilbert	NASA Marshall Space Flight Center
Assistant Mission Manager	Mr. K. Stuart Clifton	NASA Marshall Space Flight Center
Mission Scientist	Dr. Marcus Vlasse	NASA Marshall Space Flight Center
Assistant Mission Scientist	Dr. Edwin C. Ethridge	NASA Marshall Space Flight Center
Chief Engineer	Mr. Joseph Laux	NASA Marshall Space Flight Center
Payload Operations Director	Mr. Robert Little	NASA Marshall Space Flight Center