

PIMS 4th Annual Microgravity Environment Interpretation Tutorial
NASA Glenn Research Center, Ohio Aerospace Institute (OAI),
Library Room, Cleveland, Ohio

Tuesday, March 6th, 2001

Welcome Remarks	D. Francisco
Acceleration Measurement Program Overview	D. Francisco
Orientation	K. Jules
1. PIMS Interactions with Experiment Teams	K. Jules
2. Working in Microgravity Environment: "A Primer"	K. Jules
3. Space Acceleration Measurement Systems (SAMS) - RTS	W. Foster/ E. A
4. SAMS Free Flyer (FF) Accelerometers -- TSH	R. Sicker
5. Microgravity Acceleration Measurement Systems (MAMS)	J. Fox
6. Orbital Acceleration Research Experiment (OARE)	J. Fox
Accelerometers Demo	SAMS staff
7. Basics of Signal Processing	E. Kelly
8. Analysis Techniques for Quasi-Steady Data	E. Kelly
9. Analysis Techniques for Vibratory Data	K. Hrovat
10. Reduced Gravity Environment of Ground-based facilities	R. DeLombard
11. Microgravity Environment of Non-orbital Flight Platforms	R. DeLombard
Open Forum Discussion	

Wednesday, March 7th, 2001

12. Highlights of the Microgravity Environment of the Orbiters and Mir	R. DeLombard
13. Impact of the Microgravity Environment on Experiments	B. Tryggvason
14. PIMS International Space Station Operation	K. McPherson
15. International Space Station Acceleration Data Flow Demo	K. McPherson
Tour Orientation and Instructions	K. Jules
Social Activity Plan	K. McPherson

NASA Glenn Facilities Tour

Thursday, March 8th, 2001

16. Fundamentals of Microgravity Vibration Isolation	M. Whorton
17. Survey of Microgravity Vibration Isolation Systems	M. Whorton
18. ISS Microgravity Requirements	S. DelBasso
19. ISS Design Analysis Cycle 8 Environment Predictions	S. DelBasso
20. Predicting Residual Acceleration Effects on Space Experiments	E. Nelson
21. Developing Microgravity Tolerance Specifications	E. Nelson
Open Forum Discussion	

PIMS 4th Annual Microgravity Environment Interpretation Tutorial
NASA Glenn Research Center, Ohio Aerospace Institute (OAI),
Library Room, Cleveland, Ohio

Tuesday, March 6th, 2001

Welcome Remarks (by D. Francisco)	08:35-08:45
Acceleration Measurement Program Overview	08:45-08:55
Orientation	08:55-09:00
1. PIMS Interactions with Experiment Teams	09:00-09:15
2. Working in Microgravity Environment: "A Primer"	09:15-10:15
<i>BREAK</i>	10:15-10:30
3. Space Acceleration Measurement Systems (SAMS)-- RTS	10:30-11:00
4. SAMS Free Flyer (FF)—TSH	11:00-11:30
5. Microgravity Acceleration Measurement Systems (MAMS)	11:30-12:00
<i>LUNCH</i>	12:00-13:00
6. Orbital Acceleration Research Experiment (OARE)	13:00-13:30
Accelerometers Demo	13:30-14:00
7. Basics of Signal Processing	14:00-14:20
8. Analysis Techniques for Quasi-Steady Data	14:20-15:00
<i>BREAK</i>	15:00-15:15
9. Analysis Techniques for Vibratory Data	15:15-16:00
10. Reduced Gravity Environment of Ground-based Facilities	16:00-16:15
11. Microgravity Environment of Non-orbital Flight Platforms	16:15-16:40
Open Forum Discussion	16:40-17:00

Wednesday, March 7th, 2001

12. Highlights of the Microgravity Environment of the Orbiters and Mir	08:30-09:10
13. Impact of the Microgravity Environment on Experiments	09:10-11:10
<i>BREAK</i>	11:10-11:30
14. PIMS International Space Station Operations	11:30-11:45
15. International Space Station Acceleration Data Flow Demonstration	11:45-11:50
Tour Orientation / Instruction and Social Activity Plan	11:50-12:00
NASA Glenn Facility Tour	13:30-17:00
Social Activity	19:30-

Thursday, March 8th, 2001

16. Fundamentals of Microgravity Vibration Isolation	08:30-09:15
17. Survey of Microgravity Vibration Isolation Systems	09:15-10:00
<i>BREAK</i>	10:00-10:15
18. ISS Microgravity Requirements	10:15-11:15
19. ISS Current Environment Predictions	11:15-12:00
<i>LUNCH</i>	12:00-13:00
20. Predicting Residual Acceleration Effects on Space Experiments	13:00-13:30
21. Developing Microgravity Tolerance Specifications	13:30-14:30
Open Forum Discussion	14:30-15:30