

PIMS 5th Annual Microgravity Environment Interpretation Tutorial
NASA Glenn Research Center, Ohio Aerospace Institute (OAI),
Library Room, Cleveland, Ohio

Tuesday, March 5th, 2002

Introduction of Jack Salzman	D. Francisco
Welcome Remarks	J. Salzman
Acceleration Measurement Program Overview	D. Francisco
Orientation	K. Jules
1. PIMS Interactions with Experiment Teams	K. Jules
2. Working in a Reduced Gravity Environment: "A Primer"	K. Jules
3. Developing Microgravity Tolerance Specifications	E. Nelson
4. Accelerometer Systems: Description and Capability	W. Foster
Accelerometers Demo	SAMS/staff
5. Basics of Signal Processing	E. Kelly
6. Analysis Techniques for Quasi-steady Data	E. Kelly
7. Analysis Techniques for Vibratory Data	K. Hrovat
8. Microgravity Environment of Ground-based facilities and Non-orbital Flight Platforms	R. DeLombard
9. Highlights of the Microgravity Environment of the NASA Space Shuttle Orbiters	R. Delombard
Open Forum Discussion	

Wednesday, March 6th, 2002

10. Fundamentals of Microgravity Vibration Isolation	M. Whorton
11. Survey of Microgravity Vibration Isolation Systems	M. Whorton
12. Microgravity Control Integration Process and Disturbance Predictions for ISS Rack Payloads	J. Heese
Tour Orientation and Instructions	K. Jules
Social Activity Plan	K. McPherson
NASA Glenn Microgravity Facilities Tour	
Social Activity/Dinner	

Thursday, March 7th, 2002

13. PIMS International Space Station Operations	K. McPherson
14. How to Access PIMS ISS Acceleration Data	K. McPherson
15. Predicting Residual Acceleration Effects on Space Experiments	E. Nelson
16. Impact of the Microgravity Environment on Experiments	B. Tryggvason
17. ISS Microgravity Requirements	S. DelBasso
18. ISS Design Analysis Cycle and Environment Predictions	S. DelBasso
19. ISS Measured Microgravity Environment—Quasi-steady: Increments 2 & 3	E. Kelly
20. ISS Measured Microgravity Environment—Vibratory: Increments 2 & 3	K. Hrovat
Open Forum Discussion	

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Introduction of Jack Salzman	08:30-08:32
Welcome Remarks (by J. Salzman)	08:32-08:35
Acceleration Measurement Program Overview	08:35-08:40
Orientation	08:40-09:00
1. PIMS Interactions with Experiment Teams	09:00-09:20
2. Working in a Reduced Gravity Environment: "A Primer"	09:20-10:20
MORNING BREAK	10:20-10:50
3. Developing Microgravity Tolerance Specifications	10:50-11:20
4. Accelerometer Systems: Description and Capability	11:20-12:00
LUNCH BREAK	12:00-13:00
Accelerometer (Continued)	13:00-13:35
5. Basics of Signal Processing	13:35-13:50
6. Analysis Techniques for Quasi-steady Data	13:50-14:30
AFTERNOON BREAK	14:30-15:00
7. Analysis Techniques for Vibratory Data	15:00-15:40
8. Microgravity Environment of Ground-based facilities and Non-orbital Flight Platforms	15:40-16:10
9. Highlights of the Microgravity Environment of the NASA Space Shuttle Orbiters	16:10-16:30
Open Forum Discussion	

Wednesday, March 6th, 2002

10. Fundamentals of Microgravity Vibration Isolation	08:30-9:30
11. Survey of Microgravity Vibration Isolation Systems	09:30-10:10
MORNING BREAK	10:10-10:40
12. Microgravity Control Integration Process and Disturbance Predictions for ISS Rack Payloads	10:40-11:10
Tour Orientation and Instructions	11:10-11:25
Social Activity Plan	11:25-11:35
NASA Glenn Microgravity Facilities Tour:	13:00-16:30
Microgravity Emission Lab	
2.2 Sec. Drop Tower	
Zero-g	
Telescience/FCF	
Social Activity/Dinner	19:30-Till

Thursday, March 7th, 2002

13. PIMS International Space Station Operations	08:00-09:00
14. How to Access PIMS ISS Acceleration Data	09:00-10:00
<i>MORNING BREAK</i>	
15. Predicting Residual Acceleration Effects on Space Experiments	10:00-10:30
16. Impact of the Microgravity Environment on Experiments	10:30-11:30
	11:30-12:30
<i>LUNCH BREAK</i>	
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	14:00-14:50
<i>AFTERNOON BREAK</i>	
19. ISS Measured Microgravity Environment—Quasi-steady: Increments 2 & 3	14:50-15:20
20. ISS Measured Microgravity Environment—Vibratory: Increments 2 & 3	15:20-16:05
Open Forum Discussion	16:05-17:00
	17:00-17:30