

PIMS 3rd Annual Microgravity Environment Interpretation Tutorial
NASA Glenn Research Center, Dynacs Building, Room 175
Cleveland, Ohio

7 December 1999

Introduction of Stephen Simons
Welcome
Acceleration Measurement Program Overview

D. Francisco
S. Simons
D. Francisco

1. Technical Introduction and Orientation
2. PIMS Interactions with Experiment Teams
3. Acceleration Measurement Systems
4. Demonstration of SAMS-FF
5. Basics of Signal Processing
6. Analysis Techniques for Quasi-Steady Data
Open Forum Discussion

K. Jules
K. Jules
W. Foster
T. Kacpura
E. Kelly
K. McPherson

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7. Analysis Techniques for Vibratory Data
8. Microgravity Environment of Non-orbital Platforms
9. Highlights of the Microgravity Environment of the Orbiters and Mir
Microgravity Facilities Tour
10. Implications for Microgravity Experimenters
11. ISS Acceleration Environment Predictions
12. PIMS International Space Station Operation
13. International Space Station Acceleration Data Flow Demo
14. Vibration Isolation Techniques
Open Forum Discussion

K. Hrovat
K. McPherson
R. Delombard
Staff
K. Jules
R. Delombard
K. McPherson
K. McPherson
R. Delombard

***Social Activity:** Dinner in C-town(pay your own)*

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15. Predicting Residual Acceleration Effects on Space Experiments
16. Impact of the Microgravity Environment on Experiments
Open Forum Discussion

E. Nelson
R. Delombard

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Introduction of Stephen Simons	8:45-8:50
Welcome (by S. Simons)	8:50-9:00
Acceleration Measurement Program Overview	9:00-9:10
1. Technical Introduction and Orientation	9:10-10:30
2. PIMS Interactions with Experiment Teams	10:30-10:45
BREAK	10:45-11:00
3. Acceleration Measurement Systems	11:00-12:00
LUNCH	12:00-13:00
4. Demo of Advanced Acceleration Systems (SAMS-FF)	13:00-13:30
5. Basics of Signal Processing	13:30-14:30
BREAK	14:30-14:45
6. Analysis Techniques for Quasi-Steady Data	14:45-15:45
Open Forum Discussion	15:45-16:45

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7. Analysis Techniques for Vibratory Data	8:30-9:30
8. Microgravity Environment of Non-orbital Platforms	9:30-10:00
BREAK	10:00-10:15
9. Highlights of the Microgravity Environment of the Orbiters and Mir	10:15-11:00
LUNCH	11:00-12:00
Microgravity Facility Tour (2.2 seconds drop tower, Zero-g), and TSC	12:00-14:00
10. Implications for Microgravity Experimenters	14:00-14:15
11. ISS Acceleration Environment Predictions	14:15-14:45
12. PIMS International Space Station Operations	14:45-15:15

BREAK

15:15-15:30

13. International Space Station Acceleration Data Flow Demo

15:30-16:00

14. Vibration Isolation Techniques

16:00-16:30

Open Forum Discussion

16:30-17:00

Social Activity: Dinner in Downtown

20:00-

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15. Predicting Residual Acceleration Effects on Space Experiments

8:30-10:00

BREAK

10:00-10:15

16. Impact of the Microgravity Environment on Experiments

10:15-11:15

Open Forum Discussion

11:15-12:00