

Society of Allied Weight Engineers

# 67th International Conference on Mass Properties 2008

May 17-22, 2008  
Seattle, Washington, USA

Printed from e-media with permission by:

Curran Associates, Inc.  
57 Morehouse Lane  
Red Hook, NY 12571  
[www.proceedings.com](http://www.proceedings.com)

ISBN: 978-1-60560-713-9

Some format issues inherent in the e-media version may also appear in this print version.

## TABLE OF CONTENTS

<b>Transferring Best Practice: FCS MGV Weight Reduction Incentive Program .....</b>	1
<i>B. Kee-Bowling, W. Ballata, R. Poppe, A. Robota, S. Kaiser, J. Dick</i>	
<b>Actual Measurement Requirements .....</b>	12
<i>D. Finkleman</i>	
<b>Are We Doing Enough to Secure Future Weight Engineers? .....</b>	25
<i>B. Boze</i>	
<b>Mass Properties Control and Management for Commercial and Military Vehicle Systems.....</b>	39
<i>S. Larson</i>	
<b>G/I Project Status: Proposed New Recommended Practice .....</b>	81
<i>J. Cerro, V. Kiskunas</i>	
<b>SAWE Training Program Opportunities.....</b>	84
<i>A. Schuster</i>	
<b>Instant CG .....</b>	93
<i>A. Kalaghatagi</i>	
<b>Development and Implementation of a Space Systems Mass Properties Process.....</b>	108
<i>J. Peterson, O.G. Ratz, A. Trego</i>	
<b>Making the Transition from the Comfort Zone to the Unknown .....</b>	118
<i>T. Brown, R.K. Raines, G. Tschabold</i>	
<b>Weight Engineering, Loading Schedules.....</b>	146
<i>J. Nugent</i>	
<b>E-Standards for Mass Properties Engineering.....</b>	170
<i>J. Cerro</i>	
<b>Knowledge Management in a “Need to Know” Environment.....</b>	189
<i>A.C. Jordan</i>	
<b>Alternate &amp; Overhead Space Utilization In Long-Range Commercial Aircraft .....</b>	201
<i>R.D. Druckman</i>	
<b>Weight Control Responsibility, Authority, &amp; Accountability .....</b>	232
<i>K. LaSalle</i>	
<b>Developmental and Operational Considerations of the Boeing 747 Dreamlifter .....</b>	258
<i>R. Kwaterski</i>	
<b>The Role of Effective Mass Property Management in a Global Product Creation Process .....</b>	281
<i>C. Heim, H. Pertermann</i>	
<b>Boeing Optistruct Usage: Challenges of Implementation and the Emergence of a New Design Role .....</b>	298
<i>G. Rucks</i>	
<b>Queuing Analysis Methods for Decision Making .....</b>	311
<i>P. Brown</i>	
<b>Modernizing Inclining Experiment Tools and Methods .....</b>	325
<i>D. Tellec</i>	
<b>Submarine Trim Dive Weight Growth.....</b>	339
<i>D. Tellec</i>	
<b>Submarine Lead and Margin Attrition .....</b>	354
<i>D. Tellec</i>	

**Level or Not to Level: The Analysis of a Single Engine Weighing Process.....**380  
*J. Kaufman*

**How Mass Properties Affect Satellite Attitude Control.....**402  
*R. Boynton*

**Methods of Determining the Longitudinal Weight Distribution of a Ship.....**423  
*D.L. Hansch*

**Using a Two-plane Spin Balance Instrument to Balance a Satellite Rotor About Its Own Bearings.....**447  
*K. Wiener, P. Kennedy, D. Orlowski, B. Rathbun*

**Author Index**