



Society of Allied Weight Engineers 84th International Conference on Mass Properties

Agenda



- Purpose
- Schedule Overview
- Day 1: Technical Session Highlights
- Day 2: Standards & Practices Day Activities
- Day 3: Technical Session Highlights
- Training Courses
- Sponsors & Exhibitors
- Events
- Awards
- 2025-2026 Leadership Team

Who is SAWE?

Society of Allied Weight Engineers, Inc.



Aerospace | Marine | Offshore | Land Vehicles | Allied

The Leading Authority on Mass Properties since 1939

- **Non-Profit International Organization of Mass Properties Specialists**
- **Founded in 1939 and incorporated in 1941**
- **Our Mission:**
 - To promote and sustain our critical Mass Properties discipline by ensuring knowledge transfer
 - To provide a medium for exchanging recommended practices based on experience and innovation
 - To foster technical excellence and superior quality in mass properties prediction, control and validation
- **500+ Members in 19 Chapters in the US, Canada, South America, UK and Europe**
- **13 Corporate Members and Partners**



Purpose



Network



Develop Standards



Recognize



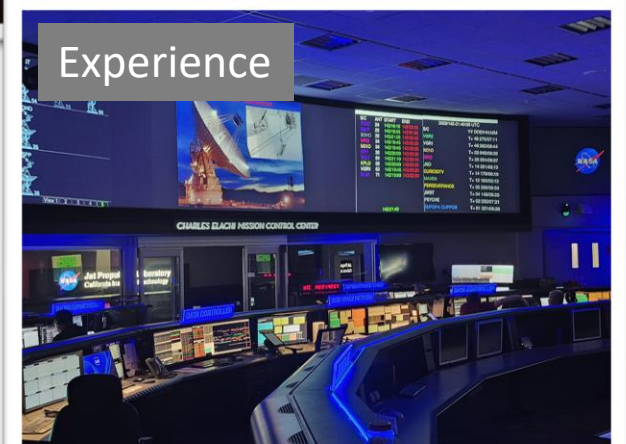
Learn



Share



Experience



Gulfstream Team



S&P Lunch



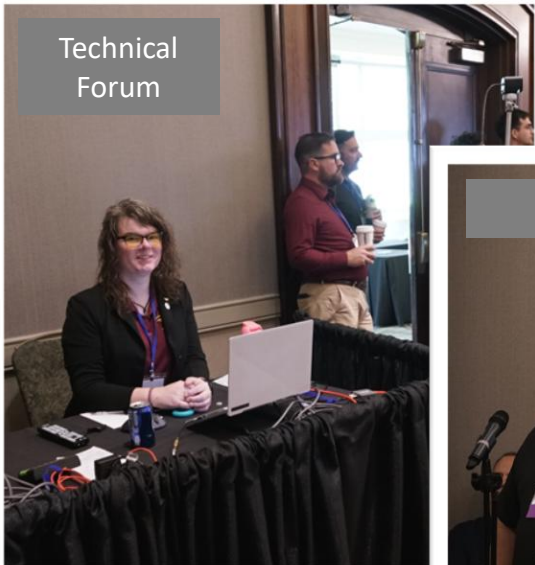
S&P Civil Aircraft Breakout



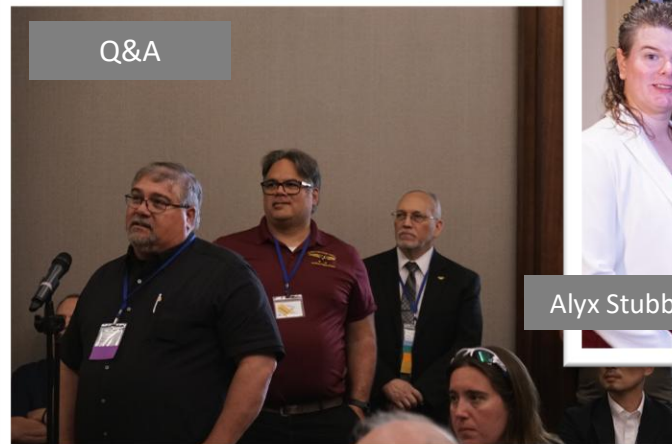
Historic Banner



Technical Forum



Q&A



Alyx Stubbers, Luis Lopez, Jonathan Thomson*, Damian Yañez



* Jet Aviation

Awards Banquet



Schedule Overview



	Sunday May 17	Monday May 18	Tuesday May 19	Wednesday May 20	Thursday May 21	Friday May 22
<i>Morning</i>		<i>California Science Center</i>	<i>Opening Session & Keynote</i>	<i>Standards & Practices Day Joint Session</i>	<i>Technical Forum</i>	
<i>Afternoon</i>			<i>Technical Tracks</i>	<i>Industry Workshops</i>	<i>Technical Tracks</i>	
				<i>Luncheon</i>		
				<i>Industry Workshops</i>		<i>JPL Tour</i>
<i>Full Day</i>	<i>Training</i>	<i>Training</i>	<i>Training</i>	<i>Training</i>	<i>Training</i>	
<i>Evening</i>		<i>Welcome Reception</i>			<i>Awards Banquet</i>	



Day 1: Technical Sessions - Keynote

Time (PDT)	Technical Program - Grand Ballroom AB
8:00 AM	Opening Remarks
8:30 AM	Keynote Speaker – Dr. Michael Buonanno, Lockheed Martin
9:30 AM	Break – Grand Ballroom CDE
10:00 AM	3846: <i>Vendor Guarantee Weights in Product Development</i> – Douglas Fisher, Collins Aerospace
10:30 AM	Intercomp
10:45 AM	3845: <i>The Earned Value Evolution of the Plan to Perform</i> – Patrick Brown, Northrop Grumman
11:15 AM	B&A Software
11:30 AM	3841: <i>Recommended Practice (RP) Functional Sub-codes: Simplified Part Categories for Better Early Program Weight Estimation and Enabling AI Analysis</i> - Roman Aman, Lockheed Martin
12:00 PM	Lunch Break (On Your Own)
1:30 PM	Raptor Scientific
1:45 PM	3838 (P): <i>Career Development with SAWE</i> – Robert Zimmerman, SAWE
2:15 PM	Anduril
2:30 PM	3844: <i>Unintentional Lateral Imbalance Calculation Methodology for Freighter Aircrafts</i> – Alejandro Fiestras Corcho, Airbus
3:00 PM	Break – Grand Ballroom CDE
3:30 PM	3851: <i>Roll and Horizontal Axis Moment of Inertia (MOI) Measurements using a Gravity Pendulum</i> – James Blair, Raptor Scientific
4:00 PM	Archer Aviation
4:15 PM	3854: <i>The Impact of Changing Test Weight Vertical Center of Gravity on a Shipboard Inclining Experiment</i> – Alan Bryden, Robert Dvorak, NAVSEA
4:45 PM	Exhibitor Networking Session – Grand Ballroom CDE
6:00 PM	

*(P) - Presentation Only

Mass Properties Processes
Chair: Amanda Cutright

Balanced or Not
Chair: John Nakai



Keynote

“X-59 Quiet Supersonic Technology Program”
Dr. Michael Buonanno, Air Vehicle Manager, Lockheed Martin

Day 1: Technical Sessions - Morning

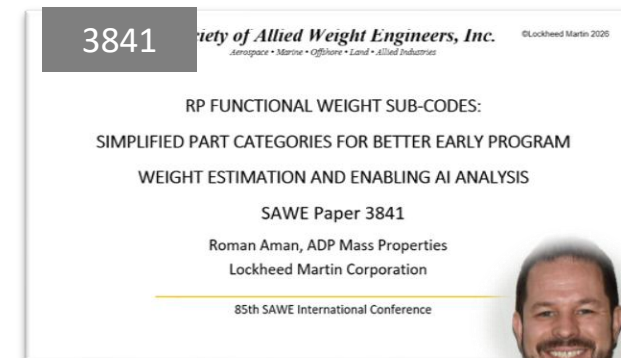
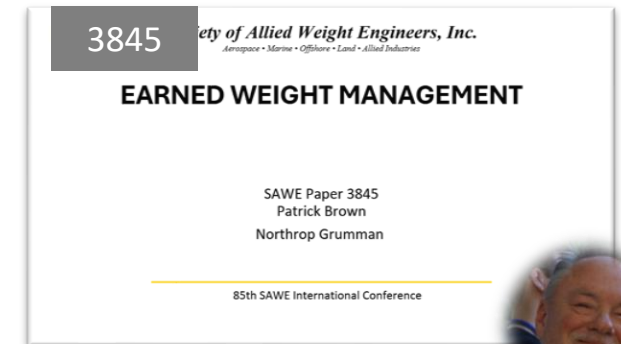


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Mass Properties Processes
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Balanced or Not
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Day 1: Technical Sessions - Afternoon



Time (PDT)	Technical Program - Grand Ballroom AB
8:00 AM	Opening Remarks
8:30 AM	Keynote Speaker – Dr. Michael Buonanno, Lockheed Martin
9:30 AM	Break – Grand Ballroom CDE
10:00 AM	3846: <i>Vendor Guarantee Weights in Product Development</i> – Douglas Fisher, Collins Aerospace
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3838 Society of Allied Weight Engineers, Inc.
Aerospace • Marine • Offshore • Land • Allied Industries

SAWE's Career Development Initiative

SAWE Presentation 3838 - Part 1

Robert Zimmerman, Darren Gamble, Dirk Petersen,
Aleni Burcham, Amanda Cutright, Nick Thies
Society of Allied Weight Engineers
85th SAWE International Conference



3844 Society of Allied Weight Engineers, Inc.
Aerospace • Marine • Offshore • Land • Allied Industries

Unintentional Lateral Imbalance Calculation Methodology for Freighter Aircrafts

SAWE Paper 3844

Alejandro Fiestras Corcho
Mass Properties Engineer - Airbus



85th SAWE International Conference

3851 horizontal axis moment of inertia
measurements using a gravity pendulum



SAWE 85th International Conference on Engineering 2026 – Paper #3851
James Blair - Raptor Scientific
SAWE 85th International Conference on Engineering



3854 Society of Allied Weight Engineers, Inc.
Aerospace • Marine • Offshore • Land • Allied Industries

The Impact of Changing Test Weight Vertical Center of Gravity on a Shipboard Inclining Experiment

SAWE Paper

Alan Bryden
Engineering Manager for Submarine Weights and Stability
DRPM Team Submarine
Rob Dvorak
Technical Warrant Holder for Submarine Weight Control and Stability
Naval Sea Systems Command



85th SAWE International Conference

Day 2: Standards & Practices



Time (PDT)	Conference	Training	Events
7:00 AM	Registration / information Desk Open – Garden Foyer		
8:00 AM	S&P Day Opening Remarks & Certification Workshop – Grand Ballroom AB	Aircraft Weight and Balance (Day 2) – Grand Foyer then Offsite (Meet by 7:45 AM)	Vasquez Rocks and Wine Tasting – Hotel Lobby (Meet by 8:15 AM)
8:30 AM			
9:30 AM			
10:00 AM			
10:45 AM	Industry Breakouts		
	• Military Aircraft – Grand Ballroom AB • Civil Aircraft – Canyon Country • Missiles and Space – Newhall • Offshore – McBean Suite • Marine – Executive Board Room		
12:00 PM	S&P Luncheon – Valencia Ballroom	Lunch Break	
1:00 PM	Plenary Session: <i>JetZero</i> – Michael Galvin – Grand Ballroom AB	Resume Class – Saugus/Castaic	
2:00 PM	Industry Breakouts (cont.) – Same rooms as morning sessions		
3:00 PM	Break – Grand Ballroom CDE		
3:30 PM	Industry Breakouts (cont.) – Same rooms as morning sessions	Resume Class – Saugus/Castaic	
5:00 PM	Summary Session – Grand Ballroom AB		
6:00 PM	Lessons Learned Meeting (Invitation Only) – Executive Board Room		
7:00 PM			Hospitality – McBean Suite, Rm 629
11:00 PM			

Standards &
Practices

Training
Session

Offsite
Event

Onsite
Event





Day 2: Standards & Practices

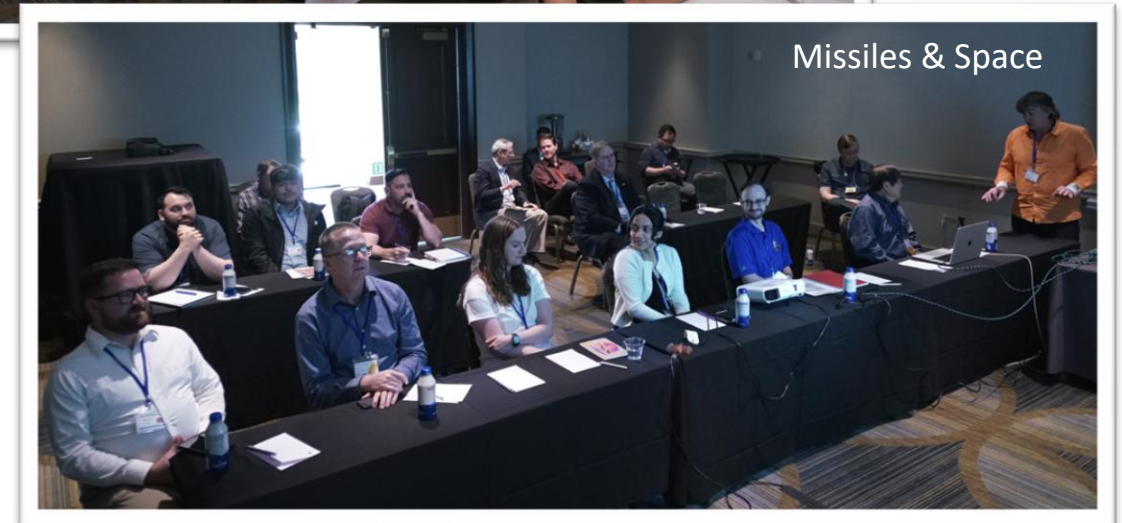
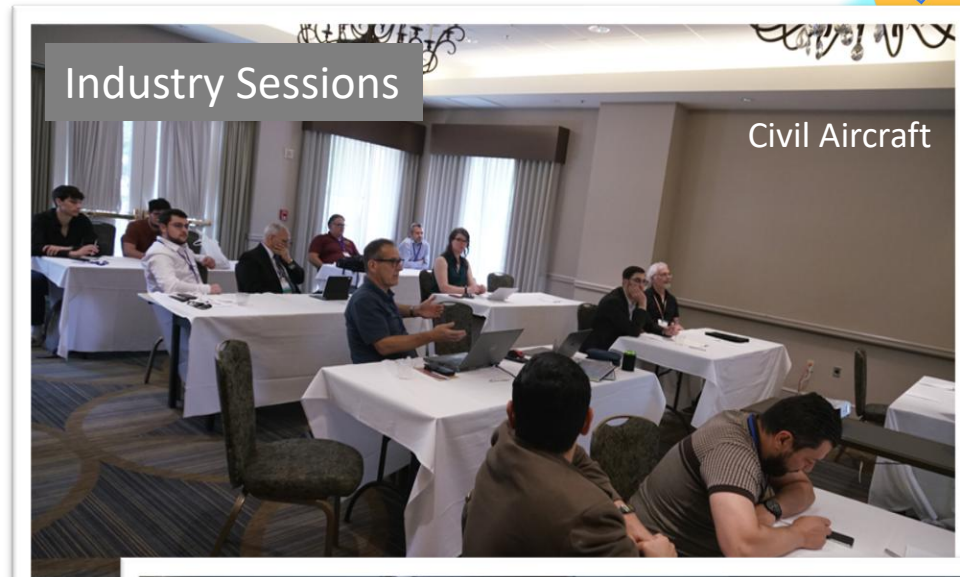
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9:30 AM	Break – Grand Ballroom CDE		
10:00 AM	Career Development Presentation – Dirk Petersen - Grand Ballroom AB		
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Standards &
Practices

Training
Session

Offsite
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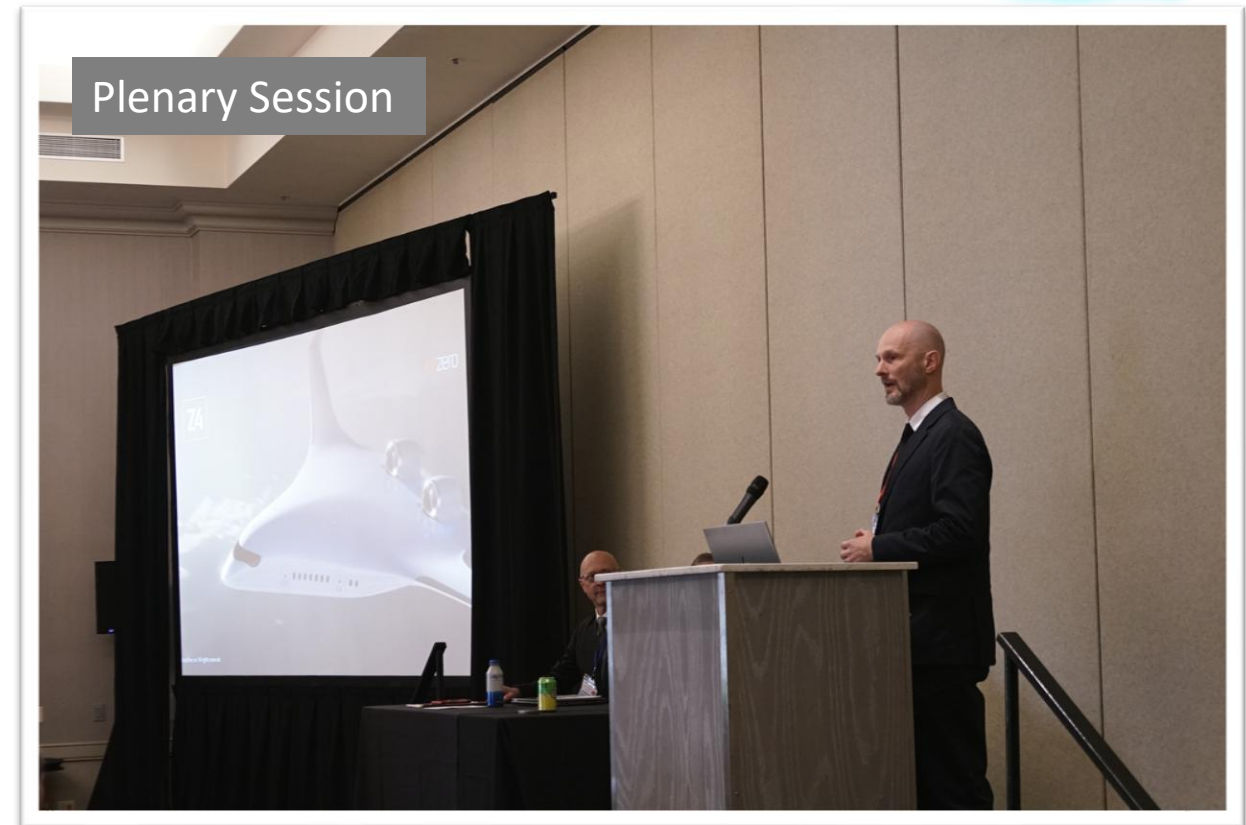




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Standards & Practices	Training Session	Offsite Event	Onsite Event
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“Blended Wing Body Evolution – A Clear Path to Zero”

Michael Galvin, JetZero



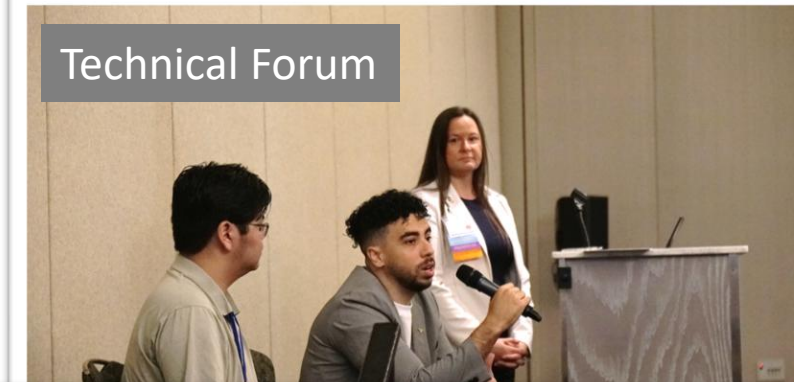
Day 3: Technical Sessions - Forum

	Track I – Grand Ballroom AB	Track II - Newhall
8:00 AM	Technical Forum - Mass Properties and Performance of Electrical Vertical Take-Off and Landing (eVTOL) Aircraft Vehicles	
9:30 AM	Break – Grand Ballroom CDE	
10:00 AM	GEC	
10:15 AM	3839 (P): <i>The Value of Hands-on Experience – Technical Forum Results</i> – Dirk Petersen, SAWE	
10:45 AM	3837: <i>The Influence of Mass Properties on Key Performance Parameters in Space Technology Development</i> – Amanda Cutright, NASA Langley	3856: <i>Weight Management of Ground Vehicles</i> – Hans-Peter Dahm, TGM Lightweight Solutions GmbH
11:15 AM	Lockheed Martin	
11:30 AM	3858: <i>Integrated Product Design for Mass Properties Control: Connecting Requirements, Architecture, Configuration, and Verification through the Digital Thread</i> – Vince Mendoza, Siemens DISW	3855: <i>Double-Shell and Sandwich Fuselages for Future Aircraft</i> – Hans-Peter Dahm, TGM Lightweight Solutions GmbH
12:00 PM	Lunch Break (On Your Own)	
1:30 PM	HII	
1:45 PM	3840: <i>The Learjet 85: Historical Evolution, Critical Challenges and Lessons from a Misguided Program</i> – Darrin McCloud, M2 Consulting	
2:15 PM	Boeing	
2:30 PM	3842: <i>Modernizing SumMassPro</i> – Robert Zimmerman, SAWE	
3:00 PM	Break – Grand Ballroom CDE	
3:30 PM	3843: <i>Digital Exposure of Mass Properties Data</i> – Nick Thies, Northrop Grumman	
4:00 PM	3852 (P): <i>SAWE Membership Committee Report</i> – Jason Booth, Boeing	
4:30 PM	3857 (P): <i>Mass Properties Musings</i> – Dirk Petersen, SAWE	
4:50 PM	Closing Remarks	
5:00 PM		

*(P) - Presentation Only

Technology Applications Mass Properties Evolution Integrated Products

Technical Forum



“Mass Properties and Performance of Electrical Vertical Take-Off and Landing (eVTOL) Aircraft Vehicles”

Amanda Cutright, Saad Mazgour, Jeremy Lim, Stephen Cutright

Day 3: Technical Sessions - Morning



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Technology Applications
Chair: Robert Zimmerman

Mass Properties Evolution
Chair: Jason Booth

Integrated Products
Chair: Damian Yañez

3839

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The Value of Hands-On Experience

SAWE Presentation 3839

Dirk Petersen
SAWE VP Certification

85th SAWE International Conference



3837

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The Influence of Mass Properties on Key Performance Parameters (KPPs) in Space Technology Development for the Society of Allied Weight Engineers (SAWE) 85th Annual Conference

Amanda Cutright, Branch Head, Engineering Integration Branch, Engineering Directorate
NASA Langley Research Center



3856

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Weight Management Of Ground Vehicles

SAWE Paper 3856

85th SAWE International Conference
On Mass Properties Engineering

Hans-Peter Dahm
Senior Expert Mass Properties – Light weight design – Calculation - Consulting
TGM Lightweight Solutions GmbH

A Mass Properties Control Framework For Road, Off Road, Rail, And Special Purpose Platforms



3855

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DOUBLE-SHELL AND SANDWICH FUSELAGES FOR FUTURE AIRCRAFT

Structural Mechanics, Weight Functions, and Relevance to Hydrogen and Electric Aeroplanes

Hans-Peter Dahm, Managing Director
Senior Expert Mass Properties – Lightweight Design – Consulting
TGM Lightweight Solutions GmbH

85th SAWE International Conference on Mass Properties Engineering | Los Angeles, California | May 17-22, 2026

Society of Allied Weight Engineers, Inc.
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Integrated Products
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3840

SAWE Paper 3840

THE LEARJET 85: HISTORICAL EVOLUTION, CRITICAL CHALLENGES AND LESSONS FROM A MISGUIDED PROGRAM

Darrin McCloud, M2 Consulting

Presented at :

85th SAWE International Conference on Mass Properties Engineering, May 2026
Los Angeles, California

3842

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Modernizing SumMassProps

SAWE Paper 3842

Robert L. Zimmerman
Deputy Technical Director

85th SAWE International Conference

3843

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Digital Exposure of Mass Properties Data

SAWE Paper 3843

Nick Thies
Staff Engineer, Northrop Grumman Corporation

85th SAWE International Conference

3852

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Special Membership Committee Report:

Summary of Committee Updates and Findings

SAWE Paper 3852

Jason Booth
SAWE President

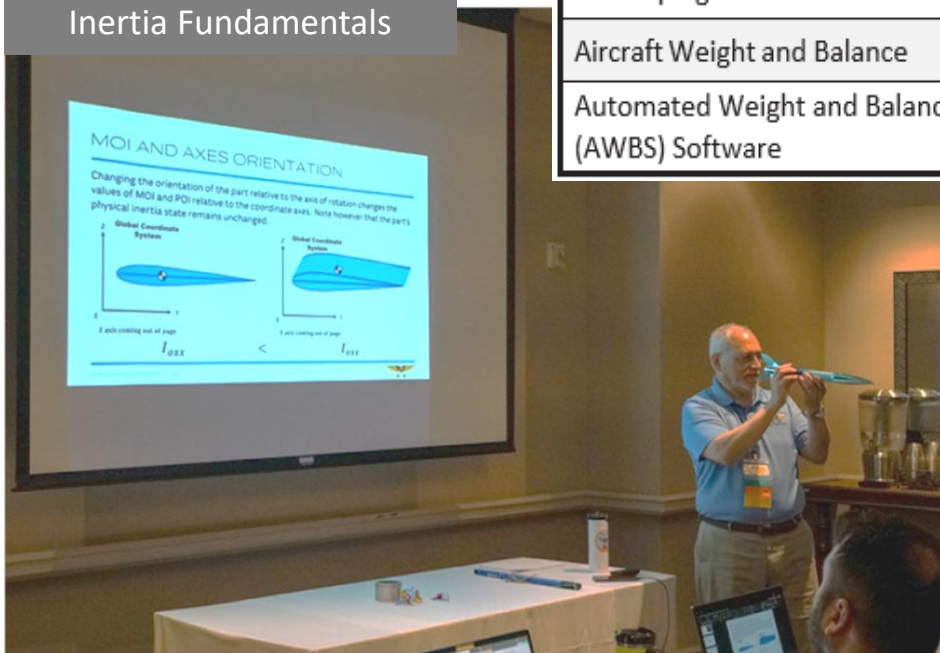
85th SAWE International Conference

Training Courses



Training Classes for May 2026		
Class	Day	Instructor
Vendor Weight Control	Sunday, May 17	Rod VanDyk
Aircraft Fuel System Calibration	Monday, May 18 (morning only)	Rod VanDyk
Inertia Fundamentals ★NEW★	Monday, May 18	Damian Yañez
Developing Basic Parametric Methods	Tuesday, May 19	Andy Walker
Aircraft Weight and Balance	Tuesday & Wednesday, May 19-20	Errol Oguzhan
Automated Weight and Balance System (AWBS) Software	Thursday, May 21	Harold Smoot

Inertia Fundamentals



AWBS

Aircraft Weight and Balance



Sponsors & Exhibitors



Silver Corporate Sponsors



Company Members



Exhibitors



Events



Monday – California Science Center



Tuesday – Reagan Library and Museum



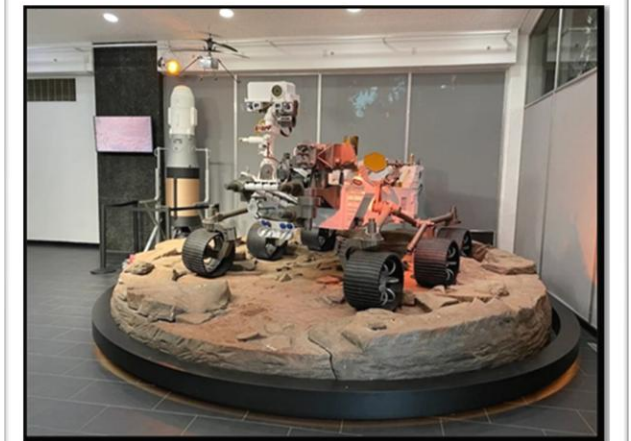
Tuesday – MB2 Entertainment



Wednesday – Vasquez Rocks and Wine Tasting



Thursday – Warner Brothers Tour and Griffith Observatory



Friday – NASA Jet Propulsion Lab Tour

Awards



Robert Zimmerman, Louis Lopez, Damian Yañez
Recertification Awards

L.R. "Mike" Hackney Best Paper

Paper 3842:
Modernizing SumMassProps



Robert Zimmerman

Best Journal Article

God, I Love Being an Engineer!



William Boze

Scholarship Winners

- Dylan Van Holton – Aviation Science
- Delaney Robertson – Biomedical Sciences
- Daisy Thies – Hospitality & Tourism Management
- Claire Moulton – Mechanical Engineering

President's Awards

- Damian Yañez – Conference IT Support
- Dr. Donna Gerren – VP Academic Affairs
- John Hargrave, Bill Boze, Nathan Rowley – Mass Properties Ethics Video
- Damian Yañez – Inertia Fundamentals Course
- David Hansch – SAWE/SNAME Joint Training
- Harold Smoot – AWBS Training Excellence
- Aleni Burcham – Conference Registration

Ed Payne Young Engineer



Aleni Burcham

New Fellows



Chris Wandell



Jorge Bes



Mark Beyer



Robert Hargrave

New Honorary Fellow



Greg Ray

Richard Boynton Lifetime Achievement



William Boze

2026 - 2027 Leadership Team



PRESIDENT Jason Booth The Boeing Company president@sawe.org 	EXECUTIVE DIRECTOR Bill Boze Society of Allied Weight Engineers, Inc. bill.boze@sawe.org 
EXECUTIVE VICE PRESIDENT Runar Aasen B&A Software executivevp@sawe.org 	SENIOR VICE PRESIDENT Karla Gregg Northrop Grumman Corporation seniorvp@sawe.org 
VP - PUBLICATIONS Aleni Burcham United States Air Force publications@sawe.org 	VP - TRAINING Darren Gamble Short Brothers, a Boeing Company sawetraining@sawe.org 
VP - TECHNICAL Amanda Cutright NASA Langley Research Center technical@sawe.org 	VP - CERTIFICATION Dirk Petersen Society of Allied Weight Engineers, Inc. cmpe@sawe.org 
VP - VENDOR RELATIONS Clint Stephenson The Boeing Company vendor@sawe.org 	VP - INFO TECHNOLOGY Greg Ray The Boeing Company webmaster@sawe.org 
VP - STANDARDS & PRACTICES Nick Thies Northrop Grumman Corporation standards@sawe.org 	VP - ACADEMIC AFFAIRS Donna Gerren PHD University of Colorado, Boulder academic.committee@sawe.org 

Questions?



Visit: sawe.org