



Volume 45 Issue 4
April 2025
A Publication of the Pine
Mountain Lake Aviation
Association, Inc.

Next Meeting

April 05, 2025
The Johanson's Hanger
20810 Elderberry Way-SW taxiway
Potluck social 6 pm dinner at 7

President's Message

By Bob Mackey

At the May membership meeting, I am looking forward to San Jose State University Professor of Geology Manny Gabet. This will be a Talk-Then-Do meeting, with discussion on Saturday evening, followed up by flying on Sunday morning to see the features in the real world. Professor Gabet will talk about some of his research on the formation of Table Mountain and other local geologic landmarks. Weather permitting, we will see those features Sunday morning with a flight eastward up the Stanislaus River Valley and then down the Tuolumne River back towards PML.

Table Mountain, near Knights Ferry



www.pmlaa.org

Some other features in the area:



In June, my friend Mike Friend will be here with stories of some of the more unusual aircraft he built at Boeing. Other speakers to look forward to include Prof. Paolo Iscold from Cal Poly Aeronautical Engineering, and Jan Johnson to talk about the history of the Women Airforce Service Pilots (WASPs) of WW2.

Hot August Nights and Airport Day are also coming up soon. We will be looking to all the usual suspects plus some new volunteers to carry out the planning and preparation.

Remember to renew your memberships!

Safety Corner

By Joe Sobczak

Single Pilot Resource Management

1972 was the worst year in history for commercial aviation with 72 accidents and 2,313 fatalities. While commercial aviation was, at that time, still considered the safest form of transportation, it was projected that by the year 2000 with the growth of the industry there would be a fatal airline crash every week if the accident rate did not decline. About 80% of all crashes were attributed to pilot causes.



Three crashes in the 1970's involving U.S. airlines highlighted the need for action. Eastern Airlines flight 401 crashed in the Everglades when the crew became preoccupied with a landing gear indication - here's a reenactment of that accident: a PanAm 747 and a KLM 747 collided on the runway at Tenerife, Spain, in 1977 resulting in the worst airline accident in history with 583 fatalities. The following year United Airlines flight 173 crashed near Portland due to fuel exhaustion while the

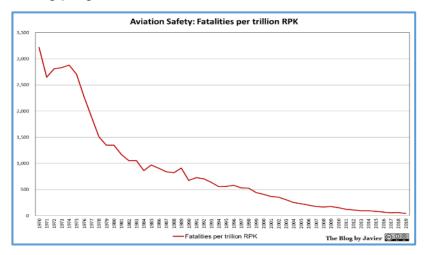
crew tried to resolve a landing gear problem. This video includes a recreation of that accident and how it led to CRM.

As a result of these crashes, engineer John Lauber of NASA developed the concept of Crew Resource Management, or CRM. CRM leveraged six elements involved in the conduct of a flight:

- 1. Communication
- 2. Leadership
- 3. Teamwork
- 4. Workload Management
- 5. Situational Awareness
- 6. Planning and Decision Making

If you view the above referenced videos you will see that effective implementation of these six elements was severely lacking in each of the crashes. The essence of CRM was to encourage the captain to use all available resources both inside and outside of the aircraft, to aid in decision-making. Did it work?

Did it ever! As the graph shows, the accident rate dropped precipitously over the next several decades as airlines and air traffic control agencies adopted the concept and developed training programs for crews.



Buoyed by the success of CRM in reducing airline accidents, in 2005 the National Business Aviation Association (NBAA) expanded the concept of CRM for single pilot jets. Much of the information is useful to all single pilot operations and the <u>latest version of the publication can be found here.</u>

The definition of Single Pilot Resource Management (SRM) is "The art and science of managing all the resources available to a single pilot to ensure a safe and successful flight." This includes resources in the aircraft as well as external resources both before and during the flight. SRM is essentially identical to CRM but without the elements involved when there is a multi-pilot crew.

One of the key components of SRM is Risk Management. This involved identifying hazards for the flight, assessing their risk level, and mitigating the risks to maximize the safety of the flight. Risk management is pretty straightforward, and I recommend that all pilots become familiar with the process and use it for every flight. NBAA has an excellent guide for implementing a risk management strategy using a flight risk assessment tool (FRAT) which is available here. There are also apps available that help you run through a risk management scenario and simplify the process.

Three step are		ev veet	or same or		
inree scop gre Conduct befor				E.	
TEP 1: IDENTIF	THE RISKS IN	nukranavi	color brise)		
HOLISTON V	BAZATO AND BIOL	Likelihood (periodile)	Severity toxonyamon(Owner Breed	ARRECT CRAMA ROLL 162 - 500 - Highs 103-04 - 500 Bridges
PLOT	BOXE NO BUIL	10010101	SEE OFFICE	601	VEN NO STREET, S.
Enifotion/ commodeficient					
de creettad large leder					
APERANT					
Lapuppyor					
Fraipopa Smili represive smili represive					
Fortimunos					
INTERNATED T					
Riberter					
Engage (C) Engage					
Terrain Day vs. right.					

Risk Assessment Matrix					
Likelihood	Severity				
LIKCIIIIOUU	Catastrophic	Critical	Marginal	Negligible	
Probable	High	High	Serious	Medium	
Occasional	High	Serious	Medium	Low	
Remote	Serious	Medium	Medium	Low	
Improbable	Medium	Medium	Medium	Low	



The FAA teaches the 5P approach to SRM: Plan, Plane, Pilot, Passenger, and Programming. You can find lots of information on the FAA website, www.faa.gov.

There is a lot that goes into SRM training and implementation, far too much to cover here. I encourage you to use the resources referenced in this article to expand your knowledge of SRM – it could even save your life!

To get you started, here are five SRM tools you can use for your next flight. This is just an exemplary list, it is not exhaustive.

- <u>ADS-B IN</u>. Helps you keep track of other traffic that could pose a midair collision hazard. This can be a double-edged sword – do not dwell on your traffic display at the expense of visual lookout for traffic.
- 2. <u>Passengers</u>. Your PAX can hold your iPad, take notes, assist with visual lookout, and help monitor flight and engine instruments. As a bonus, if you keep your passengers busy, they won't be as much of a distraction to you.
- 3. <u>Automation</u>. Know your systems well and let your autopilot be your co-pilot, especially when there is a high workload environment.
- 4. **FRAT**. Use the flight risk assessment tool or app before and during every flight.
- 5. <u>121.5 and 7700</u>. If you need assistance from ATC, you will get it fast if you squawk emergency. If you are not already talking to ATC on a discrete frequency 121.5 is always a good option.

Fly Often, Fly Safe! - Joe

2025 AVIATION (AND OTHER INFO) CALENDAR

Submitted by Janet Gregory

January	1 – New Year's Day
,	4 – Happy New Year! <u>NO</u> PMLAA Meeting in January
	4-5 – E45 Airport Display Day, 8:00-4:00, sign off at 12:00
	20 – Martin Luther King, Jr. Day & Presidential Inauguration
	29 – Chinese New Year – Year of the Snake (celebrate thru Feb 12)
February	1 – PMLAA Meeting, 6:00 potluck & speaker
	1-2 – E45 Airport Display Day, 8:00-4:00, sign off at 12:00
	2 – Groundhog Day
	9 – Superbowl Sunday
	13-14 – Blood Moon
	14 – Valentine's Day
	17 – President's Day
	28 – Planet Parade – Seven planets will align in the night sky
March	1 – PMLAA Meeting, 6:00 potluck & speaker
	1-2 – E45 Airport Display Day, 8:00-4:00, sign off at 12:00
	8 – Patriots Jet Team @ Ferrari Challenge, Sonoma Raceway, CA
	8 – Mercury will be at its farthest point from the Sun
	9 – Daylight Savings Time Begins (Clock springs forward)
	15 - Patriots Jet Team @ MCAS Yuma Airshow, Yuma, AZ
	17 – St. Patrick's Day
	20 – Vernal Equinox
	22 – Vicky Benzing @ Thunder & Lightning Over Arizona, Tucson, AZ

April	2 – Peanut Butter and Jelly Day
	5 – PMLAA Meeting, 6:00 potluck & speaker
	5-6 – E45 Airport Display Day, 8:00-4:00, sign off at 12:00
	5-6 – Vicky Benzing @ Aviation Nation Airshow, Las Vegas, NV
	12 – Young Eagles at O22, Columbia Airport, 9:00-Noon
	12-13 – Vicky Benzing @ Southern California Airshow, Moreno Valley, CA
	12 – Passover begins
	20 – Easter Sunday
	22 – Earth Day
	28 – Superhero Day
<mark>May</mark>	3 – PMLAA Meeting, 6:00 potluck & speaker
	3-4 – E45 Airport Display Day, 8:00-4:00, sign off at 12:00
	4 – Star Wars Day – "May the fourth be with you."
	5 – Cinco de Mayo
	11 – Mother's Day
	16-18 - Patriots Jet Team @ Oregon Int'l Airshow, Hillsboro, OR
	17-18 - Vicky Benzing @ Oregon Int'l Airshow, Hillsboro, OR
	22 – Road Trip Day
	26 – Memorial Day

	31 - Vicky Benzing @ Kirtland Air Fiesta, Albuquerque, NM				
June	1 - Vicky Benzing @ Kirtland Air Fiesta, Albuquerque, NM				
	7 – PMLAA Meeting, 6:00 potluck & speaker				
	7-8 – E45 Airport Display Day, 8:00-4:00, sign off at 12:00				
	7-8 – Vicky Benzing @ Beale Air & Space Expo, Marysville, CA				
	10 – Moon rise to its highest point and sink to its lowest – Lunar Standstill				
	12 – National Flip Flop Day				
	14 – Columbia Airport (O22) Father's Day Fly-In				
	15 – Father's Day				
	20 – Summer Solstice				

July	4 – Independence Day					
	5 – Happy Independence Day! <u>NO</u> PMLAA Meeting in July					
	5-6 – E45 Airport Display Day, 8:00-4:00, sign off at 12:00					
	12-13 – Vicky Benzing @ Bremerton Airshow, Bremerton, WA					
	13 - Patriots Jet Team @ NASCAR Sonoma Raceway, Sonoma, CA					
	17 – National Hot Dog Day					
	19 – Vicky Benzing @ Boundary Bay Airshow, Delta, BC Canada					
	21-27 – EAA AirVenture, OSH, WI					
	21-27 – Vicky Benzing @ EAA AirVenture, Oshkosh, WI					
August	2 – PMLAA Taxiway Party, Hot August Nights					
	2-3 – E45 Airport Display Day, 8:00-4:00, sign off at 12:00					
	9-10 – Vicky Benzing @ Humboldt Airshow, Humboldt, CA					
	13 – National Left-Handed Day					
	16-17 – Vicky Benzing @ Wings Over Camarillo Airshow, Camarillo, CA					
	22-23 - Patriots Jet Team @ Airshow of the Cascades, Madras, OR					
September	1 – Labor Day					
	6 – PMLAA Meeting, 6:00 potluck & speaker					
	6-7 – E45 Airport Display Day, 8:00-4:00, sign off at 12:00					
	6 – National Root Beer Float Day					
	7-8 - Blood Moon					
	10-14 – National Championship Air Races, Roswell, NM (First Annual!)					
	10-14 – Vicky Benzing racing at the National Championship Air Races, Roswell, NM					
	22 – Autumnal Equinox					
	20-12 – Vicky Benzing @ Central Coast AirFest, Santa Maria, CA					

October	4 – E45 PMLAA Airport Appreciation Day, 11:30-3:00
	4 – PMLAA Meeting, 6:00 Catered Dinner
	4-5 – E45 Airport Display Day, 8:00-4:00, sign off at 12:00
	4-5 – Vicky Benzing @ California International Airshow, Salinas, CA
	11 – Young Eagles Rally @ E45 Pine Mountain Lake Airport 9:00-Noon
	11 – Vicky Benzing @ Apple Valley Air Show, Apple Valley, CA
	11-12 - Patriots Jet Team @ Fleet Week, San Francisco, CA
	13 – Columbus Day
	18-19 - Patriots Jet Team @ Amigo Airshow, El Paso, TX
	31 - Halloween
November	1 – PMLAA Meeting, 6:00 potluck & speaker

	1-2 – E45 Airport Display Day, 8:00-4:00, sign off at 12:00			
	2 – Daylight Savings Time Ends (Clocks fall back)			
	11 – Veterans Day			
	11 – North Taurids meteor shower peak			
	16 – Leonidas meteor shower peak			
	27 – Thanksgiving Day			
December	6 – PMLAA Holiday Party, Catered Dinner			
	6-7 – E45 Airport Display Day, 8:00-4:00, sign off at 12:00			
	7 – Pearl Harbor Remembrance Day			
	14 – Hanukkah begins			
	21 – Winter Solstice			
	25 – Christmas Day			
	31 – New Year's Eve			

② Check Vicky Benzing website for schedule changes and updates https://www.vickybenzing.com/schedule.html

② Check Patriots Jet Team website for schedule changes and updates https://patriotsjetteam.com/air-shows/

2025 Calendar

Filled with everything you love Pairplanes, Yosemite, and PML Photos by PMLAA member Frank Leung













Only \$20
Buy them from Rob Compton or Janet Gregory or at the next PMLAA meeting.





⊙ Pine Mountain Lake Aviation Association

Membership Application, Renewal and Update



() New Member	Date:	
() Renewal – no changes		
() Renewal – with changes		
	Orde	er Publish on
		<u>ge</u> <u>Member List</u>
Name 1:		
Name 2:		
Child Name:		
Child Name:		□ Yes □No
Mailing Address:State:Zip:		□ Yes □No
Phone 1:		□ Yes □No
Phone 2:		☐ Yes ☐ No
Email 1:		☐ Yes ☐ No
Email 2:		☐ Yes ☐ No
Mountain Lake Airport, and the general community, educational activities. Monthly Meetings: Held the first Saturday of each m 6:00, check the PMLAA Newsletter or website www. Annual membership dues are \$25.00 per Please make check payable to: PMLAA. Bring to monthly meeting or remit to: PN	nonth (no meeting in Januar pmlaa.org for details. household.	y or July), usually at
 Membership includes: 	ilaa, FO BOX 131, GIOVE	ianu, CA 95521
 Monthly electronic newsletter. 		
 Access to member directory (avai Invitation events.to monthly mee 		
Annual dues \$25.00 per year	\$	
Badges @ \$15.00 each	\$	
Donation (\$25-\$100 suggested)	\$	
Scholarship Fund Donation	\$	
TOTAL enclosed	\$	

Board of Officers & Committee Chairs - 2025				
OFFICERS President, Bob Mackey	707-622- 5392	COMMITTEE CHAIRS Property, Ed Peters	209-962-6267	
VP, Airport Affairs, Dan Anema	209-406- 9236	Multimedia, Phil Hickerson	209-962-6714	
VP, Social Affairs, Open		Membership/Rstr, Bob Mackey	707-622-5392	
Secretary, Phil Boortz	805-944- 0148	Airports Manager, pending		
Treasurer, Ralph McLaughlin Email: president@pmlaa.org	408-520- 8209	Display Day Coordinator Dan Anema Safety, Mike Gustafson & Joe	209-406-9236	
or board@pmlaa.org		Sobczak Newsletter, Julie Anema Webmaster, Jeremy Zawodny	209-614-7606 408-685-5936	