

AIAA LA-LV Section Council Minutes 2022 December 13

Call to order 6:10 pm by Ken Lui, the Section Chair

Present (In-Person): Ken Lui; (K-12 Students Listen-in) Parish (7th grader), Kairo, Xxavier (14th grader), Victor.

Present (Online/Dial-in): Dean Davis, Marty Waldman, Courtney Best, Luis Cuevas; (non-voting) Ian Clavio, Seth Potter

Not Present: Lynn Jenson, Jennifer Fleming Perdigao (court deposition out of town), Roz Lowe, Arpie Ovsepyan (teaching), Sherry Stukes (end of year project), Daniel Robert Scalese (teaching)

*Note: The 4 K-12 students asked the council members a few questions before and during the council members. The Q&A is not recorded here in the meeting minutes, though those were very interesting questions and the council members provided very inspiring answers and comments / encouragements.

Secretary Report –Jennifer Fleming Perdigao (absent) - Ken Lui (on behalf of Jennifer)

- **Item #1: Minutes for the September 13 Council Meeting**
 - Yea: Dean, Gary, Luis, and Ken. Nay: None. Non-voting: Seth, Ian
 - (Courtney, Marty, and Luis joined later and didn't vote)
 - This item was passed.
- **Item #2: Minutes for the October 11 Council Meeting**
 - Yea: Dean, Gary, Luis, and Ken. Nay: None. Non-voting: Seth, Ian
 - (Courtney, Marty, and Luis joined later and didn't vote)
 - This item was passed.
- **Item #3: Minutes for the November 8 Council Meeting**
 - Yea: Dean, Gary, Luis, and Ken. Nay: None. Non-voting: Seth, Ian
 - (Courtney, Marty, and Luis joined later and didn't vote)
 - This item was passed.

Section Chair Report – Ken Lui

- **Newsletters**
 - November Newsletter was released on November 30. (Cover Story: NASA Artemis-1 / SLS / Orion launch on November 16)
 - Section Newsletters are integrations, and a report to the communities/reports about our activities, as well as a good platform for sharing and networking. Section newsletter contributions from the council are encouraged/welcome. Thanks to the volunteers who helped with this.
 - With the flipbook version as well since 2020/2021 on <https://aiaa-lalv.org/download>.
- **December 8 Section Councils (2021-2022 and 2022-2023) Dinner**
 - Attendees enjoyed the dinner and had fun. More selected photos are on <https://aiaa-lalv.org/blogs> and "Public Shared Files" on <https://www.aiaa-lalv.org/blogs/2022/december/2022-december-8>, or on <https://engage.aiaa.org/losangeles-lasvegas> (in Public Shared Files section)
 - The Section Chair will help the current council members to enhance the chances for next year's HQ Section Awards.
- **Special event – DC-X/XA on December 12**
 - December 12 – NASA DC-X/XA: The Genesis of Fully Reusable Access to Space (Dan Dumbacher et al): lots of fun and very inspiring. (Note on Dec. 22: the video recording, podcast, and select photos can be seen on <https://www.aiaa-lalv.org/blogs/2022/december/2022-december-12> or <https://engage.aiaa.org/losangeles-lasvegas/viewdocument/2022-dec-12-dc-x-dc-xa-the-gene>
- **AIAA HQ Finance deficit and 90% rebate reduction (not just 50% reduction) for local professional sections**

- The Section received only 10% of the annual rebate from HQ. Also received the rewards money. Totally around \$2.8k, way much less than the 50% previously mentioned.
 - Some other sections also asked why 10%, not 50%. HQ indicated the Region VI Director should have explained to us.
 - We have spent roughly this amount already so far since June. Will continue to save.
 - We saved \$700-\$800 for the www.aiaa-lalv.org website by migrating it to a free website service.
 - We saved \$600-\$700 for the www.aiaa-lasvegas.org Thanks to Marty's agreement. We will maintain it for him with this free website service.
 - Ken and Luis and asking CSULB, USC, UCLA, UNLV Student Branches and see if we could save their website expenses for them, though they could have benefited from their campus special deal.
 - Section Storage is \$62.5 / month, from ~\$150 /mo in 2019, huge savings. It will increase to \$79.50 /mo after July 31, 2023. Ken has been looking around for cheaper ones, but this existing place remains the cheapest one and it's clean and decent in this area.
 - It's important to retain, recruit, and help members / membership.
- **AIAA LA-LV Section and Las Vegas Chapter websites have been successfully moved to the free new Google Sites to save**
 - We saved \$700-\$800 for the www.aiaa-lalv.org website by migrating it to a free website service. More updates will be performed during the holidays.
 - We saved \$600-\$700 for the www.aiaa-lasvegas.org Thanks to Marty's agreement. We will maintain it for him with this free website service.
 - Ken and Luis and asking CSULB, USC, UCLA, UNLV Student Branches and see if we could save their website expenses for them, though they could have benefited from their campus special deal.
- **Economic nice meeting rooms and settings help saving**
 - Lawndale Library: Nov. 8, Dec. 13, Jan. 10 Council Meetings, Nov. 12 Section Meetings presentations etc.
 - Manhattan Beach Library: Dec. 12 DC-X/XA meeting
 - Lakewood Library: Nov. 19 and Dec. 17 Section Educators (K-12 STEAM Meetings)
 - Palos Verdes Peninsula Center Library: October 12, December 7 Meetings etc.; Sep/Oct Council Meetings.
 - Willowbrook Library: Sep. 26 DART Mission Watch Party
 - Cambria Hotel LAX / The Hangar Bar: Dec. 11 Artemis-1 Splashdown Watch Party
 - Gadena Library: Dec. 20 Virtual Reality Happy Hour: Space Settlement Aerospace Art Gallery
 - Lakewood Denny's: Jan. 19 YPs/ECPs Meeting "Dennis @ Denny's"
 - **The Council / some council officers are here to help for logistics and our mission**
 - Ken is trying to help the Officers with their bylaw functions and enhance their chances of winning the HQ Section Awards next year.

Vice Chair Report – Dean

- **Dean supported the Section (K-12 STEAM) Educators' Meeting on November 19**
 - Selected Nov. 17 Meeting photos: <https://www.aiaa-lalv.org/blogs/2022/november/november-19-aiaa-la-lv-educators-k-12-steam-meeting-11-19>, or <https://engage.aiaa.org/losangeles-lasvegas/viewdocument/2022-november-19-aiaa-la-lv-educa>
 - Dean brought large-sized models of SLS rocket, Orion spacecraft, and the Starship, and he used those models and did demo to explain the Artemis missions.
 - Dean's diverse experiences had inspired the students, also giving some suggestions for the Educators.
- **Dean spoke to the AIAA CSULB Student Branch December 1**
 - Selected Dec. 1 Meeting photos: <https://www.aiaa-lalv.org/blogs/2022/december/2022-december-1>, or <https://engage.aiaa.org/losangeles-lasvegas/viewdocument/2022-december-1-outreach-to-aiaa>
 - Dean shared his diverse experiences and inspired the students in the AIAA CSULB Student Branch.
 - A tour to the CSULB Student rocket shot was provided. It was very interesting, and they had a good facility, which they wanted to let more people know and potentially get some external donations.
- **Dean will support the Section (K-12 STEAM) Educators' Meeting on December 17**

- (Note on Dec. 22) Selected Dec. 17 meeting photos: <https://www.aiaa-lalv.org/blogs/2022/december/2022-december-17> or <https://engage.aiaa.org/losangeles-lasvegas/viewdocument/aiaa-la-lv-educators-meeting-k-12>

Treasurer's Report – Lynn (absent) - Ken Lui on behalf of Lynn

- Funding reserve is also healthy in November.
- \$86,682.81 is the overall balance in the Section on Dec. 5. (Note: HQ rebates/awards came in on Dec. 14 for \$2,888.82, and the total on Dec. 22 was \$88,868.36)
- As Ken explained earlier and previously, we actually had to spend almost around this amount before HQ notified us in October for the 50% reduction, and now it's 90% reduction (10% rebate), plus the awards.
- We will continue to be cautious / careful about financial issues and conserve.



UNION BANK ENDING BALANCE

Ending Bank Balance as of 12.5.22

- Cash box =\$ 150.00
- Checking = \$13,176.44
- Savings = \$ 5,005.53
- CD = \$68,350.84
- **TOTAL = \$86,682.81**

Ambassador's Report –Seth

- NSS: US-based, with chapters all over the world, particularly the US, India, South Africa, Germany, Australia, Greece, Ecuador, Japan. Future ISDCs: 2023 in Frisco, TX (near Dallas); 2024 in Los Angeles
- The OASIS, Los Angeles chapter of NSS, has had limited activity recently, but hopes to resume soon.
- A-MAN Inc., a STEM International Science Center: leaders Hal and Bettye Walker have returned to Los Angeles after extending their annual visit to Cape Town due to COVID travel restrictions.
- ALF: Efforts to restore the Space Shuttle mockup Inspiration from the former Rockwell Boeing site in Downey, CA are stepping up.

Public Policy – Roz (absent) – Ken Lui on behalf of Roz

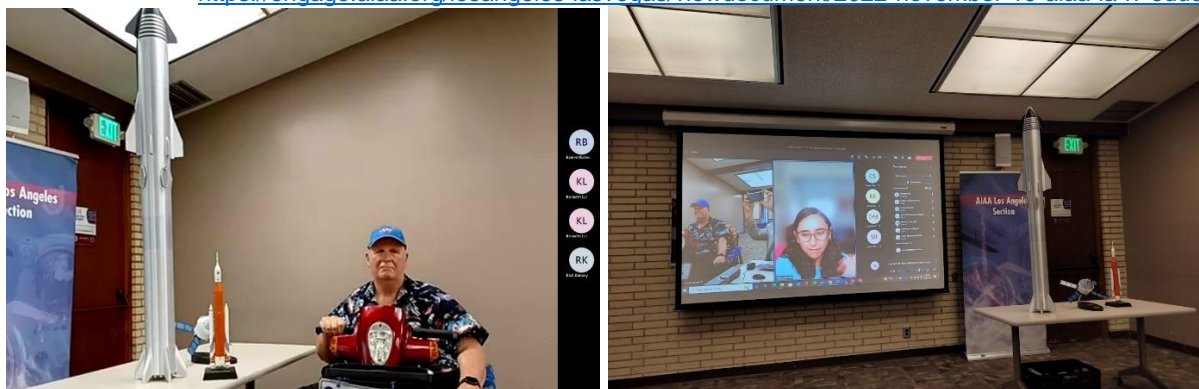
- Roz has been busy recently and has not been reachable in the past 2 months.
- In September-October Roz mentioned she would be working on AIAA CVD 2023 and reaching out to local political leaders.
- Ken indicated he had been working on the Manufacturing and Supply Chain Section meeting/event, coordinating with the panelists. Ken tried to get a good schedule for Roz, but could not get the response, but would keep trying.

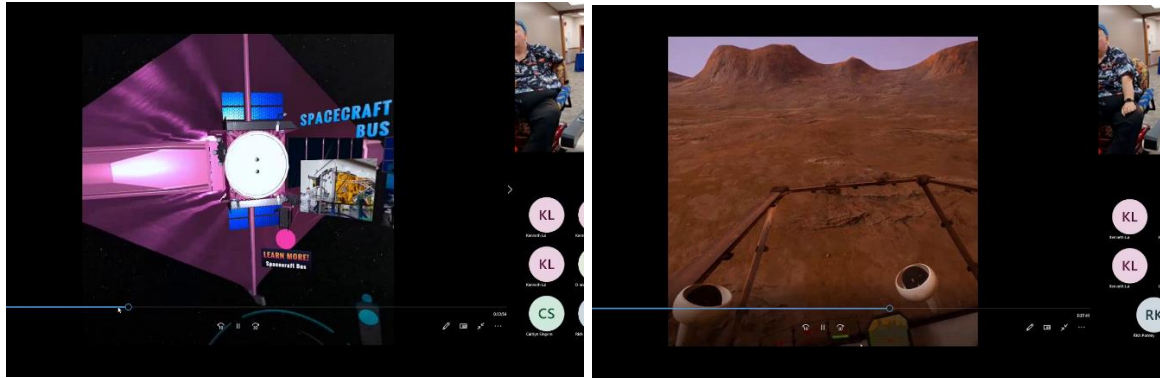
Membership – Sherry (absent) – Ken Lui on behalf of Sherry

- Sherry had been busy in December due to JPL's end-of-year project.
- Sherry indicated no updated Section Membership charts, as HQ hadn't updated the data.
- Sherry and Ken had been working on several issues about membership, including the proper categorization and promotion of the various membership categories, without complicating the existing HQ promotions for the HQ products and services. Ken would continue to look into it and work with Sherry to refine Sherry's proposals. Ken pointed out that HQ has been reluctant to clearly list in simple words about certain things, like 50% off of the retiree rates, as there could be some complications like the gaps in membership before retirement etc., and always preferred people to contact HQ directly via custserv@aiaa.org, or call the number on aiaa.org/contact
- Ken checked with HQ about the question raised by UNLV Student Branch Chair, Jacqueline, and Sherry, about the 50% discount for the Young Professional rate for the AIAA Professional Membership. It would not be automatically renewed. The student needs to enroll in the Professional Membership and benefit from the 50% YP discount themselves. The student membership is independent and could co-exist for short periods of time. They would need to inform HQ so they could merge both into the Professional membership.
- Another thing Ken indicated was that actually some middle school students joined the AIAA High School membership. Even the AIAA SSTC openly advertised it as one of the awards (free anyway) for the winning students for their annual Middle School essay contest.

K-12 STEAM Outreach – Arpie (absent) – Ken Lui on behalf of Arpie

- Arpie needs to teach at the community college tonight. December is a very busy time for her.
- Report on 11/19 "AIAA LA-LV Educators (K-12 STEAM) Meeting / event"
 - Partial video recording and selected photos can be found on <https://www.aiaa-lalv.org/blogs/2022/november/november-19-aiaa-la-lv-educators-k-12-steam-meeting-11-19> or <https://engage.aiaa.org/losangeles-lasvegas/viewdocument/2022-november-19-aiaa-la-lv-educators-k-12-steam-meeting-11-19>.





- Arpie agreed with the email flyer for the December 17 Section Educators (K-12 STEAM) Meeting email notice. She said she would provide another pre-recorded message for it. (Note: It turned out she was too busy and could not provide it.)
- For Saturday, December 17, those volunteered to demo/speak:
 - Joan Horvath: 3D Printing and Learning Calculus
 - Dean Davis: Artemis missions
 - Dr. Susan Ip-Jewell and Emmy Jewell (MMAARS, A Mars simulator / analog in Mojave Desert as a STEM Academy)
- More volunteered to support and demo in the upcoming Educators (K-12 STEAM) meetings with the Section.
- Ken has been contacting some local K-12 schools / educators and trying to get their participation, so we could know more about their needs and demonstrate our values and capabilities / care.

Education / Collegiate – Luis

- Luis talked about the Section's University Student Branches mini conference in March '23. He and Ken had been working on the possible rescheduling for it from March 4 to March 11, as SpaceX would not be able to participate on March 4. March 11 is possible for them. CSULB Branch had agreed to change it to March 11 is needed. Checking with the other branches and speakers. (Note on Dec. 22: Dr. Paul Bevilaqua (Keynote speaker), Dr. Nahum Melamed, and Mr. Dennis Leung, had all said OK for them on March 11 as well. Still waiting for USC, UCLA, and UNLV to confirm.)
- Luis is also helping Jeff (Dr. Puschell) for the Region VI Student Conference in late March '23.
- UNLV has a new Branch Chair, as Jacqueline's term was only till December 16. The new UNLV Student Branch Chair has not been responding. Luis is trying to get in touch with him.

Young Professionals (YP) / Early Career Professionals (ECP)

- Courtney mentioned the January YP Meeting that she had been discussing with Ken. She mentioned some of the places Ken suggested were interesting, especially the Denny's in Lakewood, the speaker's name is Dennis, and it would be "Dennis @ Denny's". Ken indicated he would secure the logistics/venue and assist. (Note on Dec. 22: Courtney and Ken had finalized the plan, and the first

email flyer/notice was sent out on Tuesday, December 20, for January 19 at Denny's Restaurant in Lakewood at 605 Hwy and Carson St.

- Courtney mentioned 2 possible occasions for future YP/ECP Meeting with Women as the theme. One would be in March for the International Women's Day, and in May for a Women Aviation occasion. Ken indicated the one in May related to aviation could be a good one to work on for a Section YP meeting/event with that theme / topic.

Las Vegas Chapter – Marty

- Marty mentioned he had been busy dealing the politics in the Las Vegas Chapter. He has also been trying to engage in a grassroot momentum there.
- A possible Las Vegas Section event for 30-40 people could be arranged, which will engage the Nellis AFB and Creech AFB. It will be multifaceted, including the Tech communities.
- Dean asked about the recent news about the Nuclear Fusion breakthrough in LLNL and asked about the micro nuclear reactor efforts Marty had been talking about. Marty explained it had been going on, but some politics needed to be dealt with. Ken mentioned the Section had been having several nuclear energy and nuclear propulsion meetings/events in the past few years, and he had been trying to arrange more. Ken mentioned he contacted LLNL for a presentation / meeting 2-3 months ago, when some news about a major breakthrough there in LLNL was reported. LLNL didn't reply or commit, and Ken will keep trying to arrange at least a Section meeting about it and the nuclear propulsions.

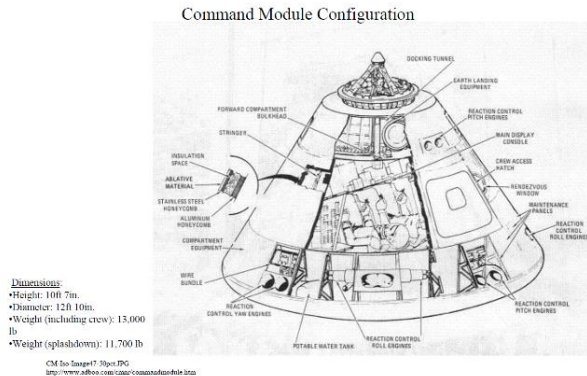
Career and Workforce Development – Daniel (absent) – Ken Lui on behalf of Daniel)

- Daniel sent a message shortly before the meeting, as he was assigned to teach tonight and could not make for the council meeting
- Ken mentioned the aircraft collision in TX to Daniel separately, and had been trying to arrange at least 2 Section meetings on the Career and Workforce, one on starting a business, and one on the supply chain etc. Ken would check with Daniel for his schedule, maybe some Saturdays, and see if it would be convenient for Daniel.

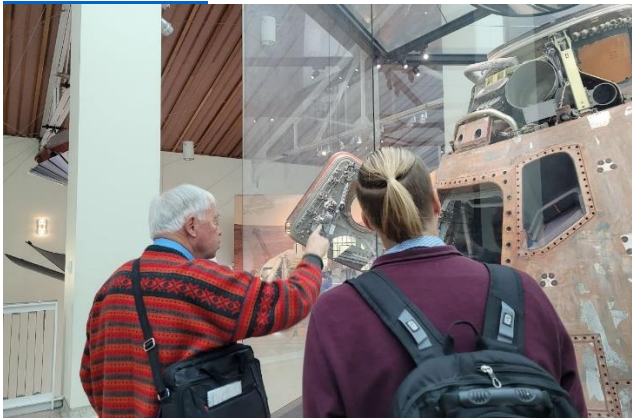
Technical – Gary

- Gary reviewed the November Aero Alumni Meeting.
- Gary talked about the Dec. 7 Section Apollo 17 50th Anniversary event in the Palos Verdes Peninsula Center Library, in which he, William Whittenbury, and Bob Anderson, a geologist from JPL, talked about the Apollo 17 geology exploration by Astronaut-Geologist Harrison Smith.
- Gary mentioned the great moment and statement/announcement for the Apollo Missions by Pres. J.F. Kennedy in Congress on May 26, 1961. And many people in that generation went through that great moment. Very inspiring.
- Gary worked on the Apollo Command Module, and he showed the sketch of it. And he planned to be the guide in the December 14 (next day of this council meeting) Aero Alumni Meeting in the California Science Center. He planned to include a tour of Wright Glider, Apollo-Soyuz command module, Viking, & Space

Shuttle etc., with also discussion of Artemis 1 Mission, and the Comparison to Apollo. He may include Lunar Geology from JPL. Another topic for Aero Alumni could be Mike Ciminera's new AIAA book on Northrop Grumman Engineers.

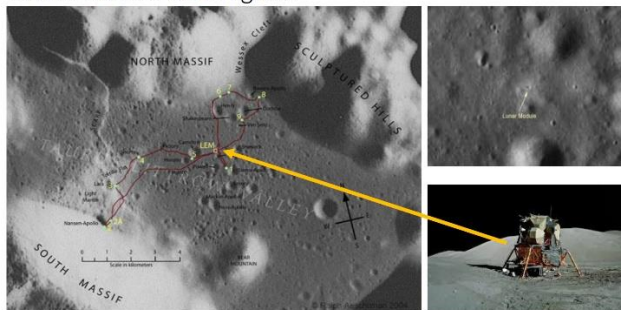


(Note on Dec. 22) A picture of Gary explaining the Apollo-Soyuz Command Module in CSC on Dec. 14 is posted here, with more on <https://www.aiaa-lalv.org/blogs/2022/december/2022-december-14> or <https://engage.aiaa.org/losangeles-lasvegas/viewdocument/2022-december-14-aiaa-la-lv-aero>



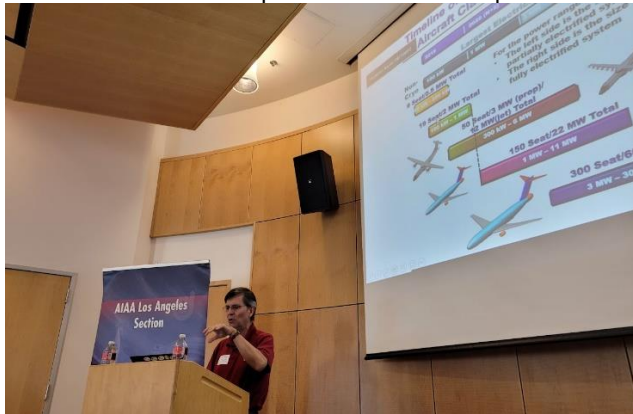
- Gary also talked about the Taurus Littrow Landing Site for Apollo 17.

Taurus-Littrow Landing Site

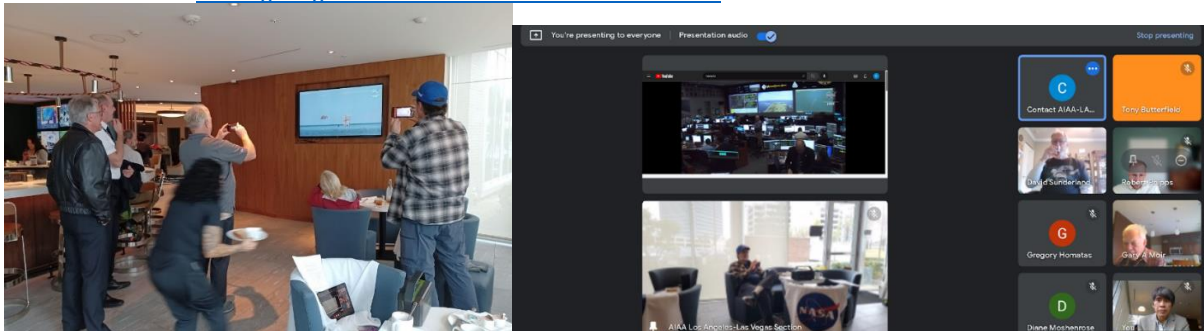


Ken – Events/Program (Acting)

- The public Section meetings/events we have been doing have networking / social, and recruitment / membership / values introductions built in / designed.
- Events/Program Officer also for venues/logistics/social meetings/field trips etc., while coordinating the activities / events / programs. If not, it would be coordinated by the Section Chair. This was what mentioned by Jeff previously.
- Report on 11/12 Section Meeting/event: Introduction to Sustainable Aviation, and Design of Electrified Propulsion Aircraft, by Dr. Marty Bradley
 - Video recording, podcast, and selected photos are on <https://www.aiaa-lalv.org/blogs/2022/november/2022-november-12-special-lecture-1-introduction-to-sustainable-aviation-an> or <https://engage.aiaa.org/losangeles-lasvegas/viewdocument/2022-november-12-introduction-to>
 - It was very insightful and inspiring. Very good lecture. Dr. Marty Bradley condensed from his AIAA online paid course for a free public lecture. Interesting Q&A.



- Report on 12/11 AIAA LA-LV Section Watch Party for Artemis-1 Splashdown
 - It was fun. Please see the selected photos on <https://www.aiaa-lalv.org/blogs/2022/december/2022-december-11>



- Report on 12/12 “DC-X/XA – The Genesis of Fully Reusable Access to Space” Section Meeting
 - Video recording, podcast, and selected photos can be found on <https://www.aiaa-lalv.org/blogs/2022/december/2022-december-12>, or <https://engage.aiaa.org/losangeles-lasvegas/viewdocument/2022-dec-12-dc-x-dc-xa-the-gene>
 - It was fun and many people didn't know about this effort 20 years ahead of SpaceX or Blue Origin. AIAA Executive Director Dan Dumbacher was the Mission Manager / Director of DC-X/XA at that time. People enjoyed it.



- Upcoming Section meetings/events in November-December.
 - (January 10) Section Council Meeting
 - (January 11) Section Aero Alumni Meeting
 - (January 14) (TBD, possible) Deployable Space Systems (Section Town Hall Meeting)
 - (January 19) Satellite 101 and How to Build Successful Work Relations in Early Career for Young Professionals (Section YPs/ECPs Meeting:) (RSVP and Information: <https://conta.cc/3HL0pCT>)
 - (January 21) NASA's Digital Information Platform (DIP) to Accelerate NAS Transformation, by Dr. Swati Saxena (Section Town Hall Meeting) (RSVP and Information: <https://conta.cc/3GyXc94>)
 - (January 28) (TBD, possible) Section Educators (K-12 STEAM) Meeting
 - (February) (TBD) Space Architecture Meeting with AIAA LA-LV Section
 - (March 4 or 11) (TBD) Section Student Branches mini-Conference 2023



Final comments:

Ken –

- Thank you so much for each of your great efforts. Keep the great efforts.

- Happy Holidays!

7:58 pm Meeting adjourned (Motion by Gary, seconded by Luis, Called for Adjourn by Ken)