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(2023 October 12) An Evening with Dr. Dan Raymer: Super Elliptical Wing Planforms for Induced Drag Reduction

(Photos Only) [https://www.aiaa-lalv.org/blogs/2023-blogs/2023-october/2023-october-12](https://www.aiaa-lalv.org/blogs/2023-blogs/2023-october/2023-october-12)

Dr. Daniel P. Raymer (Fellow, AIAA) gave an exciting talk on the Super Elliptical Wing Planforms for Induced Drag Reduction on October 12 in El Segundo, CA. It’s the first time ever he presented this topic/study. It’s based on a new / recent paper he was about to publish. He started the lecture by pointing out the importance and problem of 3-Dimensional Flow at the Tips. Attendees listened enthusiastically.

**The Problem: 3-Dimensional Flow at the Tips**

- Lift is the elliptical lift distribution that gives the minimum induced drag for a planar wing.
- Because of the local lift near the tips, the lift distribution of an elliptical wing is NOT elliptical.
- To get it back to elliptical, we need more lift near the tips.

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Disclaimer: The views of the speakers or authors do not represent the views of AIAA or the AIAA Los Angeles-Las Vegas Section. Advertising space is available in the AIAA Los Angeles-Las Vegas Newsletter: Business card, quarter page, half page, and full page, non-AIAA LA-LV 3rd-party business/issues. The newsletter has over 9,000 subscribers, and has been growing. To inquire about purchasing advertising or suggesting/providing articles, email Newsletter Editor at editor.aiaa@icloud.com, or, editor-newsletter@aiaa-lalv.org.
An Evening with Dr. Dan Raymer: Super Elliptical Wing Planforms for Induced Drag Reduction (Photos Only)

Dr. Raymer chatted with the attendees while waiting for the dinner boxes to arrive.

Dr. Raymer talked about his career and got acquainted with the attendees with his humorous styles.

(Left) Attendees smiled and laughed as Dr. Raymer was very humorous. (Right) Networking (Lynn Jenson (L) and Ian Marks (R)).
(2023 October 12) An Evening with Dr. Dan Raymer: Super Elliptical Wing Planforms for Induced Drag Reduction  

(Left) Dr. Raymer addressed a question from an attendee. (Right) Some AIAA Student members enjoyed the fun lecture very much.

(Left) Mr. Santosh Kumar couldn’t wait and asked a question. (Right) Dr. Raymer listened to a question from the back.

(Left) An experienced professional asked a sophisticated question. (Right) Attendees enjoyed the lecture and had a good time.
(2023 October 12) An Evening with Dr. Dan Raymer: Super Elliptical Wing Planforms for Induced Drag Reduction  *(Photos Only)*

(Left) Dr. Raymer gave more detailed description of the issue. (Right) Attendees paid great attention to the explanations.

This lecture was really fun and atmosphere in the room was scholarly with joy, from different angles.

(Left) Dr. Raymer explained the math for the Elliptical Wings. (Right) The speaker did the reality check and self-examined the concepts.
(2023 October 12) An Evening with Dr. Dan Raymer: Super Elliptical Wing Planforms for Induced Drag Reduction (Photos Only)

(Left) Dr. Raymer discussed the sweep of a SuperElliptical Wing. (Right) he also discussed the cases of Crescent Wings.

(Left) The Crescent Wings actually existed in mother nature. (Right) The lecture really caught the attention from the attendees.

(Left) The upcoming short courses by Dr. Raymer. (Right) The speaker actually also developed a user-friendly software RDS-Win as well.
An Evening with Dr. Dan Raymer: Super Elliptical Wing Planforms for Induced Drag Reduction (Photos Only)

The raffle winners were so happy and excited with big smiles on their faces.

Left: The RDS-Win demo was fun and fascinating. Right: The AIAA LA-LV Section expressed the gratitude with the appreciation certificate.

Left: Dr. Raymer made the drawing from the raffle tickets. Right: The raffle prizes were the most recent (6th) edition of Dr. Raymer's textbook.

The raffle winners were so happy and excited with big smiles on their faces.
(October 23-25) AIAA LA-LV Section Booth at the AIAA ASCEND, Las Vegas, NV


Mr. Luis Cuevas (standing, right) greeted a booth visitor and explained the AIAA / LA-LV activities and functions. He is the LA-LV Section’s Young Professionals Chair. Mr. Marty Waldman sat and listened to the conversations.

And educator visitor from Pakistan (left) joined the booth photo after a wonderful conversation. An AIAA Diversity Scholar and Student member (middle) helped explaining what AIAA was to visitors, along with a speaker from Stellar Solutions (right).
Hermosa Beach, CA

(October 23-25) AIAA LA-LV Section Booth at the AIAA ASCEND, Las Vegas, NV
(Photos Only)

The LA-LV Section is the C.G. (Center of Gravity) of fun and AIAA spirits! From the left to right: Meil, a student member from AIAA UNLV Student Branch; Ms. Andrea Diamond, a passionate AIAA Educator Member in LA-Las Vegas in space suit (we urged folks to wear space suits to attend ASCEND in the future!); Mr. Marty Waldman, our Las Vegas Chapter Chair; and Mr. Richard Kwan, our dedicated AIAA San Francisco Section Council Member.

Meil and Andrea chatted happily.
(October 23-25) AIAA LA-LV Section Booth at the AIAA ASCEND, Las Vegas, NV
(Photos Only)

The Boryung company from South Korea had a significant presence in ASCEND this year with a large booth. Prof. Madhu Thangavelu (left) and Dr. Ken Lui (3rd from right) joined Boryun people and had fun conversations. (Photo provided by Prof. Madhu Thangavelu)

A group student and young professional visitors were having fun conversations at the AIAA LA-LV Section booth/table, along with Prof. Madhu Thangavelu of USC (holding the chair). (Photo provided by Prof. Madhu Thangavelu)
(October 23-25) AIAA LA-LV Section Booth at the AIAA ASCEND, Las Vegas, NV

(Photos Only)

A group of students from AIAA University of Michigan Student Branch had a great time with us, also chatting with Ms. Merrie Scott (in yellow jacket) and Mr. Yen Do (in pink suit, AIAA Diversity Scholar).

(Left) Luis (Mr. Cuevas, right) chatted with Genaro, a former UNLV Student Branch Chair. (Right) Luis explained to an visitor about AIAA/LA-LV.

(Left) Professional members from LA took pictures to post on social media. (Right) Luis chatted with 2 young professionals/students.
(October 23-25) AIAA LA-LV Section Booth at the AIAA ASCEND, Las Vegas, NV
(Photos Only)

(Left, photo by Prof. Madhu Thangavelu) visitors had fun together with Luis and Ken. (Right) Marty and Luis chatted in between visits.

(Left) The current and the former executive directors of AIAA: Mr. Dan Dumbacher (left) and Dr. Sandy Magnus (right). (Right) Exhibition floor.

(Left) We are a family together with Ms. Hemali Vyas, Chair, AIAA San Gabriel Valley Section. (Right) Lobby just outside the Forum.
COVER:

Project Artemis ‘Orion’ spacecraft leaves Earth orbit to catch-up with the Moon.

art work by: James Vaughan
https://jamesvaughanphotoillus.com/
As a youngster growing up in Montreal, Canada in the early 1950s, I was impressed by the seeming simplicity of Montreal’s weather. It appeared to me as though there were just two kinds of weather, in wintertime a grey sky, and in summertime a blue sky. I wasn’t completely wrong about this. In 1961, while trying to run a small astronomy club for young people, I counted an unbroken string of cloudy Friday nights that lasted for months. And sure enough, when the weather began to moderate the following spring, we were treated to, at last, a clear night.

As I grew older, my thoughts turned to finding a different locale where the sky would be clear more often. In September 1979, I packed my bags and telescopes and headed for the American southwest. I was rewarded immediately. My first season here, the Autumn of 1979, was punctuated by a virtually unbroken string of more than 50 clear nights in a row.
There was a specific reason for my wanting more clear nights. In the fall of 1965 I was planning a search program for comets, and it began on December 17 of that year, just before midnight. I used the largest telescope I had at the time, the 8-inch reflector named Pegasus. Less than a year later, Miss Isabel K. Williamson, director of observations of the Royal Astronomical Society of Canada’s Montreal Centre, wrote this in the November 1966 issue of the center’s newsletter Skyward: “The increase in the number of observations over the previous year can be attributed to David Levy who has made the search for and observation of comets and novae his main astronomical project. In addition to patrolling assigned areas, he has made a total of 360 observations of the dome, the twilight horizon and the sky in the sun’s vicinity, and on 33 nights spent a total of 48 hours at the eyepiece of his telescope, sweeping the sky for comets.”

Miss Williamson’s words from all those years ago remain among the highest compliment I have received from anyone. And I still use Pegasus for some of my comet hunting, including the evening of October 11, 1987, when I used Pegasus to find my third comet, 1987 T1. In fact, to celebrate the completion of this article, I went outdoors and used Pegasus for a short comet search this very evening.

I may have been right about my childhood weather forecast. Southern Arizona offers many more clear nights than one can appreciate from the frequently cloudy sky over Montreal, Canada. And from the Chiricuaha Astronomy Complex, a two-hour drive southeast of my Vail, Arizona home, observers are treated to one of the darkest sky locations in the world. It is well worth loading Pegasus into a van and using it at that wonderful CAC dark site. Whether I am down there or right here, placing my eye at the eyepiece of this beloved telescope warms my heart and pierces my soul.
The “Go for Launch” finally arrived on October 13, 2023! It was a long time coming. After not being ready for the previous launch window in August 2022 resulting in a “slip”, JPL had several challenges to overcome. The JPL Navigation team successfully computed new trajectories for an October 2023 launch window. At the same time, NASA was holding an Internal Review Board (IRB) Investigation determining whether the project would continue to be funded. Then as the launch data neared, there was another one-week slip due to an issue with a cold nitrogen gas thruster. Finally, the spacecraft was ready, but the sky clouded over with the possibility of an electrical storm, so there was another one-day slip. Friday the 13th turned out to be a lucky day for the Psyche launch.

I was an invited guest to the NASA Banana Creek viewing area, located 4 miles due west of the launch site (launches can be dangerous, so 4 miles is about as close as you want to be to the launch pad). It’s about a 15-minute bus ride from the NASA Kennedy Visitor Center. We were on one of the first buses to arrive as we wanted to get good seating. There was something exhilarating about sitting high up in the bleachers with my JPL colleagues and employees from other NASA Centers. The temperature was in the mid 80’s and the humidity was quite high. I was covered in mosquito repellant and sunscreen to protect against the elements. I was ready!

It was about 7:00am when I took this photo. The launch was scheduled for 10:19am, so I sat on the edge of my bleacher and waited.
In case you are curious about the mission’s name, Psyche is the Greek Goddess of the Soul which is what scientists are hoping to learn - how planets are formed, in other words the soul of our universe. It’s a little confusing that the asteroid that the spacecraft Psyche is visiting is also named Psyche.

Scientists have speculated that the metal asteroid, Psyche, could be the exposed core of a failed planet. They believe that 30 to 60 percent of the asteroid’s volume is a nickel-iron core. It is believed to be the remnant core of an ancient planetary body that existed during the initial formation of our solar system, and it could be similar to the mostly mysterious core of our own planet, but they won’t find out until they get there.

The Psyche asteroid is located in the main asteroid belt and orbits the Sun between Mars and Jupiter. Once the Psyche spacecraft arrives at the asteroid in August 2029, it will take high-resolution images, assess the asteroid's composition, take magnetic field measurements, and measure its gravity field. Scientists hope studying Psyche up close will reveal how it was formed and possibly offer insights into planetary evolution.

To tell you a little more about the launch, this was the first NASA interplanetary launch on a SpaceX Falcon Heavy and SpaceX's eighth launch of the Falcon Heavy from Kennedy Space Center Launch Pad 39A. It was a flawless launch at exactly 10:19am, the opening of the launch window.

There was a bright yellow-orange light several seconds before we heard the giant roar of the 27 Merlin engines that generated more than 5,000,000 pounds of thrust propelling the launch vehicle toward the sky. A short time later, we were able to see (and hear the sonic booms of) the two side boosters ascending to Landing Zone 1 and Landing Zone 2 at Cape Canaveral Space Force Station.

Just over an hour after the launch, the Psyche spacecraft detached from the upper stage of the Falcon Heavy rocket and was on its way. (As a side note, SpaceX launched a Falcon 9 rocket with a 22 Statlink internet satellite payload about nine hours later from Canaveral Space Launch Complex 40.)
Attending a launch is similar to attending a sporting event. You are far away from the action, you can’t see very well, and there are no high-definition views from multiple angles or instant replay, but you are there sharing the experience with other space enthusiasts.

I’m grateful for the professional pictures from the photographers at NASA as the quality of my iPhone photos at the distance of 4 miles was not very good. I did take a lot of pictures, but photography is not one of my strong skills.

The Psyche mission is a culmination of exceptional engineering and science activities performed by NASA Centers, European partners, industry contractors, and many academic institutions.

It was an experience I will always remember – viewing the Psyche launch from the NASA Banana Creek bleachers!

Ad Astra!

Sherry Stukes
Dr. Dominic Valentia (AIAA Associate Fellow) gave a talk about his studies on a Venus lander remotely from France on October 7.

(Left) Attendees in-person and on-line interacted with the speaker. (Right) Check-in table with AIAA brochures / fliers.

(Left) Integrating a refrigerator in the payload for the Venus lander. (Right) Attendees paid great attention to the presentation.
(2023 October 7) Long duration Venus’s lander concept
(Screenshots & Photos only)

(Left) Dr. Valentian concluded the presentation and opened to the floor for Q&A. (Right) On-line attendees also joined the heated discussions.

The in-person attendees interacted closely with the speaker and on-line attendees.

In-person attendees continued the networking after the Q&A session.
(2023 October 7) Long duration Venus’s lander concept
(Screenshots & Photos only)

Dr. Valentian explained the Venus’s characteristics.

Dr. Valentian analyzed the earlier works on long life surface landers with the NASA LLISSE platform concept.

The speaker summarized the key points and concluded the presentation.

(Upper) Mr. Dennis Leung talked about the incentives for spacefaring ecosystems and their importance. (Right) Welcome/Check-in.

(Left) Attendees on-site really enjoyed the fun talk, and smiled/laughed all the away. (Right) Mr. Dennis Leung was very good keeping attendees interested.
(2023 October 21) Spacefaring Ecosystems: Adapting Industries for the Future of Space Exploration (Photos only)

(Left) Attendees enjoyed the talk tremendously. (Right) Couples chose this event as their time together.

In-person attendees interacted with the speaker face to face.

(Left) On-line and in-person attendees joined together. (Right) A in-person attendee asked some questions.
(2023 October 21) Spacefaring Ecosystems: Adapting Industries for the Future of Space Exploration (Photos only)

Attendees really cared about the successes of the future space explorations, and the conversations were very enthusiastic and inspiring.

(Left) It appeared that attendees were really very interested in this topic. (Right) There was also a book sale next to the meeting room.

Attendees on site benefited further with the in-person networking and personal discussions with / advice from the speaker.
(2023 October 28) GITAI S2: Robotic Demonstration of On-Orbit Servicing Tasks on ISS (Photos and screenshots only) [https://www.aiaa-lalv.org/blogs/2023-blogs/2023-october/2023-october-28]

(Left) In-person attendees gather on listen to the exciting presentation by Mr. Seiya Shimiza (right) on Gitai S2 and on-orbit servicing.

(Left) Mr. Shimizu gave a fascinating talk, including several video demo. (Right) An attendee asked good questions.

(Left) Mr. Seiya Shimizu explained the Gitai’s efforts from S1 to S2. (Right) A short video demonstrated the Gitai S2 for ISS On-Orbit Servicing.
(2023 October 28) GITAI S2: Robotic Demonstration of On-Orbit Servicing Tasks on ISS *(Photos and screenshots only)*

(Left) Mr. John Collins from a local Lomita-based company, Microcosm, asked very good questions. (Right) Mr. Shimizu answered questions.

(Left) An attendee from USC asked interesting questions. (Right) Mr. Shimizu showed more demo for Gitai USA’s products and testings.

Attendees felt very excited and kept asking more key questions. (Left) Mr. Velimir Randic; (Right) Mr. Dennis Leung.
(2023 October 28) GITAI S2: Robotic Demonstration of On-Orbit Servicing Tasks on ISS (Photos and screenshots only)

(Left) Attendees on-site and on-line were very interested and kept asking good questions. (Right) In-person attendees continued to network.

Folks really had lots of fun and it's very fruitful, showing and demonstrating professionalism and fun networking.

Mr. Seiya Shimizu showed some more demo video clips for outdoor (left) and indoor (right, with a chamber of lunar fine sands) simulations, as Gitai USA has projects/products/services for those in addition to the those for on-orbit servicing.
Some student robot teams of local high schools gathered today for an off-season contest at the Da Vinci Schools in El Segundo, CA.

Even though it’s off-season, students were still very enthusiastic!

The judges interviewed the students in the teams assigned to each of them and evaluated them from various aspects.
(2023 October 8) AIAA LA-LV Section Outreach / Judge to 2023 SoCal Showdown High School Robotic Teams Contest at the Da Vinci Schools (Photos only)

(Left) Judges gathered together after interviewing the student teams to finalize the judging process. (Right) Ms. Joy Uehara (a university student member of AIAA), the mentor of the student First Robotics Team of the Da Vinci Schools, cheered for her team.

(Left) Mr. Ted Harder, the advisor for Team 678 First Robotics, cheered for his students/teams. (Right) The contest was fierce but fun.

(Left) A contest was about to start. (Right) Each team also brought in their machine shops for on-site repair and maintenance.
I decided about three years ago that the perfect spot to see the annular solar eclipse on 14 October 2023 would be in Bryce Canyon. Being off the centerline, we would not have a perfect annulus, nor the longest eclipse, but I thought that would be worth it because of the phantasmagorical setting. Apparently there were a lot of other people who felt the same way as the park was packed in the days leading up to the eclipse. We were there with friends, who had a great telescope setup for viewing and taking photos of the eclipse. We spent the day before the eclipse scoping out the perfect spot where Jerry could set up his equipment. He planned to leave at 6:00 am to get a parking spot at Bryce Point, and to set up his telescope. We had been hearing rumors about the crowds expected the next morning, so Cherie and I decided to leave at 7:00 am in order to meet up with he and his wife Sandie.

On the morning of the 14th, we were off before dawn, and it was already too late! All parking areas were already blocked because of the crowds, so we had no way to get to our friends. We were very worried that they had not gotten a spot early enough themselves, but kept our fingers crossed that all was well, as we raced back to our room at the lodge, hoping that the parking spot we had recently vacated would still be there. Luckily it was, but we were highly disappointed in not being with them. I also felt that we probably would not have the grand view over the canyon that we had envisioned all those years ago. (As we found out later that afternoon, they did indeed get their spot at Bryce Point, so all was well with them.)

I then realized that we are near a place called Sunrise Point. In fact it was just a short trip up a trail from our lodge. I had no idea exactly how far it was, so I took a reconnaissance trip up the trail and found out that it was actually not far, and it was a spectacular view over the canyon. So I went back and grabbed my tripod, made a second trip to claim our spot, then went back for Cherie. It also had the added benefit of having a log seat, so we couldn't beat that!

So I slowly and carefully took Cherie up the trail, we got settled in, and had a truly wonderful annular eclipse. Got tons of great images and a really neat video as well. As with all great and detailed plans, in the face of reality, things can change, but in the end, I think we ended up at the perfect spot from which to view this eclipse. What a great prelude to the total solar eclipse coming up now in less than six months, on 8 April 2024. For that one, I have been planning even longer, all the way back to just after the August 2017 total eclipse that we saw in Oregon. This time around we'll be in Texas, so lets hope everything goes to plan.

https://www.youtube.com/watch?v=pgNt4I6iJ9Y&ab_channel=MichelleEvans
14 October 2023 Annular Eclipse at Bryce Canyon

09:52 Mountain Time

10:14 Mountain Time

10:27 Mountain Time

10:28 Mountain Time

10:29 Mountain Time

10:30 Mountain Time
14 October 2023 Annular Eclipse at Bryce Canyon

10:31 Mountain Time

11:28 Mountain Time

11:42 Mountain Time

11:56 Mountain Time
The AIAA LA-LV Section was recognized with the AIAA National Section Awards for 2022-2023
Certificates received on September 16, 2023 during AIAA Region VI RAC Meeting.

Thank you so much, AIAA!

- Outstanding Section, First Place
- Outstanding Activity, First Place Tie
- Communications Award, First Place, Kenneth Lui
- Membership Award, Second Place, Sherry Stukes
- Public Policy Award, First Place Tie, Kenneth Lui, Roz Lowe
- Section-Student Branch Partnership Award, Third Place Tie, Luis Cuevas
- STEM K-12 Award, Third Place, Arpie Ovsepyan
- Young Professionals Award, Second Place, Courtney Best
Certificates: AIAA National Section Awards for LA-LV Section (2022-2023)
Certificates: AIAA National Section Awards for LA-LV Section (2022-2023)

Presented by
The American Institute of Aeronautics and Astronautics

to
Arpie Owsepyan
For Outstanding Achievement

STEM K-12
THIRD PLACE
LOS ANGELES-LAS VEGAS
VERY LARGE

2023-2024 SECTION AWARDS

Presented by
The American Institute of Aeronautics and Astronautics

to
Roz Lowe
For Outstanding Achievement

PUBLIC POLICY
FIRST PLACE TIE
LOS ANGELES-LAS VEGAS
VERY LARGE

2023-2024 SECTION AWARDS

Presented by
The American Institute of Aeronautics and Astronautics

to
Kenneth Lui
For Outstanding Achievement

COMMUNICATIONS
FIRST PLACE
LOS ANGELES-LAS VEGAS
VERY LARGE

2023-2024 SECTION AWARDS

Presented by
The American Institute of Aeronautics and Astronautics

to
Kenneth Lui
For Outstanding Achievement

PUBLIC POLICY
FIRST PLACE TIE
LOS ANGELES-LAS VEGAS
VERY LARGE

2023-2024 SECTION AWARDS
Certificates: AIAA National Section Awards for LA-LV Section (2022-2023)

Congratulations! Thank you so much for all the council members and the support/participations from the members in LA-LV Section, members from other sections, and non-members. Look forward to engaging more with further networking. Please let us know if anything you need, or things you feel interested. Stay in touch.

For current officers / council members (2023-2024), please see: https://engage.aiaa.org/losangeles-lasvegas/about-us/officers, or https://www.aiaa-lalv.org/council
AIAA National Journals

50+ Years of AIAA Journal Archives Online
Current and back issues of AIAA journals are available online in Aerospace Research Central (ARC).

- **AIAA Journal** (1963–current): This online-only journal was launched along with AIAA in 1963, covering pioneering theoretical developments and experimental results across a far-reaching range of disciplines.

- **Journal of Air Transportation** (2016–current): AIAA’s newest online-only journal was originally published as Air Traffic Control Quarterly and is devoted to new developments in air traffic management and aviation operations of all flight vehicles, including unmanned aerial vehicles (UAVs) and space vehicles, operating in the global airspace system. The scope of the journal includes theory, applications, technologies, operations, economics, and policy.

- **Journal of Aerospace Information Systems** (2004-current): This online-only journal (formerly known as the Journal of Aerospace Computing, Information, and Communication) describes new theoretical developments, novel applications, and case studies of advances in aerospace computing, information, and communication systems.

- **Journal of Aircraft** (1964–current): Focusing on major advances in aircraft technology, this journal covers major development in general aviation, military and civilian aircraft, STOL and V/STOL aircraft, subsonic, supersonic, transonic, and hypersonic aircraft as well as applications on aircraft technology to related fields.

- **Journal of Energy** (1977–1983): You can now retrieve papers from this archived journal that was devoted to advancing the knowledge of terrestrial and space applications of all forms of energy, including its production, transformation, and conservation. propulsion, plus power generation and conversion, and terrestrial energy systems in the Journal of Propulsion and Power.
AIAA National Journals

- **Journal of Guidance, Control, and Dynamics** (1978–current): Keep pace with recent research and practical engineering applications that are guiding new generations of high-performance air and space vehicles — both manned and. This journal was originally published as the Journal of Guidance and Control.

- **Journal of Hydronautics** (1967–1980): Access archived articles from this retired journal to explore theoretical and experimental knowledge of hydrodynamics, including propulsion systems and the design of underwater vehicles, highlighting the intersection between ocean and aerospace science and engineering.


- **Journal of Spacecraft and Rockets** (1964–current): This journal features the best new work in spacecraft and missile systems (tactical and strategic), including subsystems, applications, missions, environmental interactions, and space sciences.


Out of the Past: AIAA’s Predecessor Society Journal Archives

Archive copies from AIAA’s predecessor society publications also are available online in ARC.

- **Bulletin of the American Interplanetary Society** (1930–1932): This bimonthly newsletter of the American Interplanetary Society (later known as the American Rocket Society) shared the wonders of space travel with the fledgling society’s members.

- **Astronautics** (1932–1944): Published monthly by the American Interplanetary Society, this formal newsletter replaced the Bulletin of the American Interplanetary Society.


- **Journal of the American Rocket Society** (1945-1953): This journal published technical articles on experiments in rocketry and scientific research and engineering development of jet propulsion devices and their application to problems of transportation and communication.

- **Journal of Jet Propulsion** (1954–1958): This journal published by the American Rocket Society was devoted to the advancement of the field of jet propulsion through the publication of original scientific papers and also shared society news.

- **ARS Journal** (1959–1962): Originally published under the title Journal of Jet Propulsion the name change of this journal reflected the ever-broadening field of interest of the American Rocket Society. Papers were chosen for publication based on their pertinence to the general field of astronautics, the future significance of the research, and importance to the members of the society and the profession at large.
Build Skills with Online Courses

The Institute is offering 16 online short courses this fall to help you stay sharp and improve your knowledge base. These courses are taught by renowned industry leaders and experts. Special pricing is available for AIAA members and student members, as well as group discounts for five or more individuals from the same organization. Enroll in an upcoming course.

BROWSE CATALOG

UPCOMING COURSES
AIAA National 2023 Fall - Winter Course Catalog Released

Business Development for Aerospace Professionals – Online Short Course (Starts November 7, 2023) | View Details | Buy Now

Aircraft and Rotorcraft System Identification Engineering Methods for Piloted and UAV Applications with CIFER® - Online Course (Dec 4 – 7, 2023) | View Details | Buy Now

Mission-based Vehicle Design: Digital Mission Engineering for Advanced Air Mobility (Online Short Course – Starts Jan 29, 2024) | View Details | Buy Now

Fundamentals of Space Domain Awareness (European Offering) – Online Short Course (November 17, 2023) | View Details | Buy Now

Aircraft Maintenance Management – Online Short Course (Starts January 16, 2024) | View Details | Buy Now

Cryogenic Fluid Management for Storage & Transfer of Liquid Propellants in Space – Online Short Course (Starts Jan 30, 2024) | View Details | Buy Now

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Vibration of Periodic Structures – Online Short Course (Starts Feb 6, 2024)
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Fundamentals of Aeroelasticity: From Basics to Application – Online Short Course (Starts February 13, 2024)
View Details | Buy Now

Principles of Success in Spaceflight from Andrew Chaikin – Online Short Course (February 21-22, 2024)

Design of Space Launch Vehicles – Online Short Course (Starts February 26, 2024)

Financial and Business Acumen for Navigating the Aerospace Industry – Online Short Course (Starts March 5, 2024)

Turbomachinery for Emerging Space Applications: Liquid Rocket Propulsion – Online Short Course (Starts March 11, 2024)

Aircraft Reliability & Reliability Centered Maintenance – Online Short Course (Starts March 19, 2024)

Design Evolution of Aircraft Structures – Online Course (Starts March 19, 2024)

Test Foundations for Flight Test – Online Short Course (Starts April 8, 2024)

Human Spaceflight Operations: Lessons Learned from 60 Years in Space – Online Short Course (Starts May 7, 2024)
AIAA National 2023 Fall - Winter Course Catalog Released

Guidance and Control of Hypersonic Vehicles - Online Short Course (Starts May 14, 2024)

Spacecraft Lithium-Ion Battery Power Systems - Online Short Course (Starts May 21, 2024)

Safety Management System (SMS) in Aviation - Online Short Course (Sept 10 - 13, 2024)

Understanding Aircraft Noise: From Fundamentals to Design Impacts and Simulations - On-Demand Short Course

Design of Experiments: Improved Experimental Methods in Aerospace Testing - On-Demand Short Course

Launch Vehicle Coupled Loads Analysis: Theory and Approaches - On-Demand Short Course

Design of Space Launch Vehicles - On-Demand Short Course

Space Architecture: Designing a Lunar Habitation System - On-Demand Short Course

Hypersonic Flight Vehicle Design and Performance Analysis - On-Demand Short Course

Hypersonics: Test and Evaluation - On-Demand Short Course

Hypersonic Applications: Physical Models for Interdisciplinary Simulation - On-Demand Short Course

Hypersonic Propulsion Concepts: Design, Control, Operation, and Testing - On-Demand Short Course
AIAA National 2023 Fall - Winter Course Catalog Released

- Hypersonic Air-Breathing Propulsion - On-Demand Short Course
- Fundamentals and Applications of Pressure Gain Combustion - On-Demand Short Course
- Overview of Python for Engineering Programming – On-Demand Short Course
- Turbomachinery for Emerging Space Applications: Liquid Rocket Propulsion – On-Demand Short Course

- Liquid Rocket Engines: Emerging Technologies in Liquid Propulsion – On-Demand Short Course
- Rocket Testing - On-Demand Workshop
- Turbulence Modeling for Aerodynamic Flows – On-Demand Short Course
- Higher Fidelity Designs for the Aerospace Industry with Fluid-Thermal Structural Interaction (FTSI) – On-Demand Short Course

- Computational Aeroelasticity – On-Demand Short Course
- Trusted Artificial Intelligence – On-Demand Short Course
- AI for Air Traffic Safety Enhancement – On-Demand Short Course
- Machine Learning for Quantifying Uncertainties in Engineering Applications – On-Demand Short Course
AIAA National 2023 Fall - Winter Course Catalog Released

Fundamentals of Space Systems - On-Demand Short Course
Advanced Space Propulsion - On-Demand Short Course
Fundamentals of Thermal Vacuum Testing Science - On-Demand Short Course
Applications of Thermal Vacuum Testing - On-Demand Short Course

Introduction to Propellant Gauging - On-Demand Short Course
Satellite and SmallSat Thermal Control Engineering - On-Demand Short Course
Fundamentals of Space Vehicle Guidance, Control, and Astrodynamics - On-Demand Short Course
Designing Better CubeSats Using System-Level Simulations - On-Demand Short Course

Fundamentals of Classical Astrodynamics and Applications - On-Demand Short Course
Spacecraft Design, Development, and Operations - On-Demand Short Course
Fundamentals of Airplane Performance, Stability, Dynamics and Control - On-Demand Short Course
Announcement: Discord:
AIAA LA-LV Education/Collegiate: Section-University Student Branches Connect

Set up and managed by
Mr. Ian Clavio
(AIAA LA-LV Section / Collegiate Chair)

If any question, please contact:
education-chair@aiaa-lalv.org
AIAA LA-LV Section Social Media

Set up and managed by
(AIAA LA-LV Section Communications)

If any question, please contact:

contact@aiaa-lalv.org

AIAA National: Discord

AIAA LA-LV Section: Discord
AIAA LA-LV Section Social Media

Set up and managed by
(AIAA LA-LV Section Communications)

If any question, please contact:

contact@aiaa-lalv.org

X/Twitter: AIAA LA-LV Section [https://twitter.com/aiaa_lalv]

Instagram: AIAA LA-LV Section [https://www.instagram.com/aiaalalvsection]
AIAA LA-LV Section Social Media

Set up and managed by
(AIAA LA-LV Section Communications)

If any question, please contact:

contact@aiaa-lalv.org

LinkedIn: AIAA LA-LV Section [https://www.linkedin.com/company/aiaa-la-lv]

Facebook: AIAA LA-LV Section [https://www.facebook.com/AIAALALVSection]
Discussion Groups (Existing)

* General / Ask AIAA LA-LV
* AIAA Membership
* DC-X/XA
* Drones and UAV
* Astronomy / Astrophysics
* Educators (K-12 STEAM)
* NASA DIP NAS
* Young Professionals (YP/ECP)
* Space Settlement
* Career and Workforce Dev.
* Space Settlement
* Women and Minority
* Air Mobility
* Geoengineering (New !)
* Energy & Propulsion
* University and College
* UAP and UFO

Discussion Groups (TBA)

* Planetary Defense
* Moon and Mars, Artemis
* Space Architecture / Habitats / Hotels
* Sustainable Aviation / Electric & Hybrid Aircraft
* Education/Collegiate
* Career and Workforce Dev.
* Women and Minority
* Public Policy
* Aerospace Art
* Advanced Aircraft
* Aviation & Safety
* Atmosphere and Plasma
* Earth Planetary Sciences
* Energy and Propulsion
* Defense and Security
* Digital Transformation
* Aerospace History
(More TBD)
AIAA LA-LV Section Social Media

Set up and managed by
(AIAA LA-LV Section Communications)

If any question, please contact:

contact@aiaa-lalv.org

Useful links

YouTube AIAA LA-LV Channel:
https://www.youtube.com/channel/UCCJrx_vB7oxnU6T1yinEapg

Upcoming AIAA LA-LV Section Meetings:
https://www.aiaa-lalv.org/events/2023-events-program

Event Calendar
http://events.r20.constantcontact.com/calendar/monthview?eso=0010gqoU-jblZTmCh7qkkm8w%3D%3D&llr=p9tbt6cab

Join Mailing List
https://lp.constantcontactpages.com/su/FnG0zoy

Upcoming Events
https://engage.aiaa.org/losangeles-lasvegas/
(in Upcoming Events)

Join AIAA Membership
https://aiaa.org/membership
https://aiaa.org/join

------- AIAA LA-LV, Las Vegas, and National Websites
https://www.aiaa-lalv.org
https://www.aiaa-lasvegas.org
https://engage.aiaa.org/losangeles-lasvegas

https://engage.aiaa.org
https://aiaa.org
https://aiaa.org/contact
Welcome! New AIAA Members! (LA-LV Section)

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Brandon Barkey</td>
<td>Ms Angela Marin</td>
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<tr>
<td>Ms Angela Marin</td>
<td>Jalen Noel</td>
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<tr>
<td>Brandon Pacheco Rosales</td>
<td>Ernesto Williams</td>
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<tr>
<td>Nain Rodriguez</td>
<td>Francisco Arellano</td>
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<tr>
<td>James Austin</td>
<td>Allan Marin</td>
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<td>Dean Alexander Santos</td>
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<td>2nd Lt Maximus Villar</td>
<td>Taveen Coleman</td>
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<tr>
<td>Mr Owen Fileti</td>
<td>Michelle Correa</td>
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<tr>
<td>Mr Etan Grant</td>
<td>Branden Gardea</td>
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<tr>
<td>Kaley Akemann</td>
<td>Corey Burkhead</td>
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<td>Brandon Henry</td>
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<tr>
<td>Miss Nk Ofodile</td>
<td>Cesar Arredondo</td>
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<tr>
<td>Mr Andrew Purificacion</td>
<td>Mr Leonardo Casillas</td>
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<tr>
<td>Mr Danny Chmaytelli</td>
<td>Carlos Garcia III</td>
</tr>
<tr>
<td>Petr Tupitsyn</td>
<td>Aparna Venkatchalapath</td>
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<td>Alan Thomas Sharples</td>
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<tr>
<td>Mr Jason Paul Lopez</td>
<td>Mr Martin Wu</td>
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<tr>
<td>Mr Anthony Ramos</td>
<td>Alina Varentsova</td>
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<tr>
<td>Sinan Yalman</td>
<td>Mr Eric Schmidt</td>
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<tr>
<td>Mr Matthew Steiglitz</td>
<td>Jason Yuan</td>
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<tr>
<td>Mr Mark Horejsi</td>
<td>Mushfiq Mostafa</td>
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<tr>
<td>Mr Timone Weale</td>
<td>Miss Ana Lopez Gomis I</td>
</tr>
<tr>
<td>Miss Monique Sotelo</td>
<td>Ms Ericka Ontiveros</td>
</tr>
<tr>
<td>Mr Mark Lonner</td>
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</tbody>
</table>

Welcome, new members and Congratulations!
AIAA LA-LV Aerospace News Digests (by Dr. Ken Lui, AIAA LA-LV Section)

[Oct. 30] Space Force to begin procurement of missile-tracking satellites for medium Earth orbit constellation

[Oct. 31] Vietnam’s ‘Bikini Airlines’ Gets $100 Million Funding Commitment As Earnings Soar

[Oct. 27] Chinese fighter jet came within 10 feet of US bomber, Pentagon says

Oct. 30) Cosmonaut told to leave area immediately after discovering blob growing outside International Space Station

[Oct. 31] Will $1 billion Air Force deal boost Lockheed Martin stock?

Oct. 30) New B61-13 nuclear gravity bomb to enter the US arsenal

[Oct. 31] Israel says it thwarted missile attack by Yemen’s Houthi rebels

[Oct. 24] 5 Cool Things About The Honda MH02

[Oct. 25] China continues remote-sensing buildup with new launch of Yaogan satellites (video)

[Oct. 29] U.S. Revives World’s Strongest Bomber in Bid to Counter China

[Oct. 15] Space insurers take cautious approach to satellite servicing

[Oct. 21] SpaceX fires up Starship prototype in deorbit burn test (video)


[Oct. 31] NASA's Lucy probe will fly by asteroid 'Dinkinesh' on Nov. 1. Here's what to expect

[Oct. 31] FAA wraps up safety review of SpaceX's huge Starship rocket

[Oct. 12] Asteroid 33 Polyhymnia May Contain Elements Outside The Periodic Table

[Oct. 4] Northrop Grumman to join Voyager Space commercial space station project

[Oct. 6] Amazon launches first Project Kuiper satellites with goal of creating a megaconstellation

[Oct. 5] Why NASA building houses on the moon may be a bad idea

[Oct. 5] CesiumAstro, Hughes and SES demonstrate active phased array terminal

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RSVP and Information: ([https://conta.cc/3Zk0YKM](https://conta.cc/3Zk0YKM))

**AIAA LA-LV 11/4 Section (Town Hall, Hybrid) Meeting**
Saturday, November 4, 2023, **10:30 AM PDT (GMT -0700) (US and Canada)**

**Navigating the Digital Frontier:**
Capitalizing on Digital Transformation in the Space Industry

*Presenter:*
**Mr. Dennis Leung**

Founding partner of Dibashi Consulting
Formerly with Northrop Grumman Space Divisions
Formerly with NASA Dryden Research Center (Hypersonic Vehicle Division)

(The speaker will present in person.)

**Physical Location**
Lawndale Library (Meeting Room)
14615 Burin Ave., Lawndale, CA 90260
(South of 105 Hwy and East of 405 Hwy/Pacific Coast Hwy (1))
(Near SpaceX Hawthorne, and close to Northrop Grumman Space Park)
(also on-line for a hybrid event)
(This event is not sponsored by the Lawndale Library)

**Online on Zoom**
(Please register /RSVP and you will receive the ticket with the Zoom link. Please check Spam or Junk folder shortly after registration to make sure. If not, please try using an alternative email address.)

**Tentative Agenda: (All Time PDT (GMT -0700))**
10:00 am: Check-in, Networking (for in-person attendees)
10:30 am: Introduction and welcome
10:35 am: Presentation + Q/A
12:05 pm: Networking, Adjourn.
02:00 pm: Leave Meeting Room by 2 pm PDT.

**Disclaimer:** The views of the speakers do not represent the views of AIAA or the AIAA Los Angeles-Las Vegas Section.

Contact: General Contact: [contact@aiaa-lalv.org](mailto:contact@aiaa-lalv.org), Events/Program [events.aiaalalv@gmail.com](mailto:events.aiaalalv@gmail.com)
AIAA LA-LV 11/8 Section Aero Alumni (Hybrid) Meeting

Wednesday, November 8, **11 AM - 1 PM PST** (GMT -0800) (US and Canada)

**Aero Alumni Meeting**

*Zoom on-line meeting and in-person as well.*

Our monthly Aero Alumni Zoom meeting is at 11 am PST (on-line and in-person) on November 8 (The 2nd Wednesday of November). It will be a hybrid meeting. "Aero Alumni" are retirees from aerospace industries. All public are welcome to attend. Open to public with free admission. Please Contact Mr. Gary Moir for your attendance, on-line or in-person.

**In-Person in:**

*A C Bilbrew Library*  
*150 E. El Segundo Blvd, Los Angeles, CA 90061*

(This meeting is not sponsored by the A C Bilbrew Library Library)  
(South of Hwy 105, East of Hwy 110, North of Hwy 91, and West of Hwy 710)

No lunch will be provided by the AIAA LA-LV Section.

**Online on Zoom:**


**Meeting ID:** 894 7671 4987  
**Passcode:** 581654

One tap mobile +1 669 444 9171 US, +17193594580 US, +1 309 205 3325 US  
[Dial by your location](https://aiaa.zoom.us/u/ksxCaN16c)

Meeting ID: 894 7671 4987  
+Find your local number: **[https://aiaa.zoom.us/u/ksxCaN16c](https://aiaa.zoom.us/u/ksxCaN16c)**

**Please contact Mr. Gary Moir** (gary.moir@ingenuir.com)
AIAA LA-LV 11/14 Section Happy Hour / Young Professionals

Tuesday, November 14, 2023

5:00 - 7:30 PM PST (GMT -0800) (US and Canada)

Young Professionals Happy Hour!

Please join us for a relaxing Young (Early Career) Professionals Happy Hour with the AIAA LA-LV Section on Tuesday, November 14, 2023, at the popular bar "Common Space Brewery" in their "Launch Pad" area, right in the heart of the aerospace community in the South Bay / Los Angeles area, next to SpaceX. (Free admission. No AIAA Membership is required for attendance. No payment needed for AIAA / LA-LV Section. RSVPs / Registrations are needed for chairs/logistics.)

A minimum order of at least a drink from the bar on-site is required. No outside food is allowed in the bar area. There are foods on-site available for order.

Alcoholic consumption is optional. All attendees are encouraged to drink responsibly.

Physical location:
Common Space Brewery, Launch Pad area. 3411 W EL SEGUNDO BLVD., HAWTHORNE, CA 90250
https://maps.app.goo.gl/onckMNRjekyY1B7m6

Disclaimer: The views of the speakers do not represent the views of AIAA or the AIAA Los Angeles-Las Vegas Section.
Contact: Luis Cuevas, Young Professional Chair: young-professionals-chair@aiaa-lalv.org. General Contact: contact@aiaa-lalv.org.
RSVP and Information: [https://conta.cc/3s4gGNT](https://conta.cc/3s4gGNT)

AIAA LA-LV 11/18 Section (In-Person) Meeting

Saturday, November 18, **12:30 PM PST** (US and Canada) (GMT -0800)

(An in-person meeting)

The Future of U.S. Robotic Planetary Exploration

**Dr. Randii R. Wessen**

Project Manager of the Science Understanding through Data Science effort  
Proposal Manager, X-Ray Telescope (HEX-P)  
NASA’s Jet Propulsion Laboratory  
Fellow, Royal Astronomical Society  
Fellow, British Interplanetary Society  
Associate Fellow, American Institute of Aeronautics & Astronautics (AIAA)  
Asteroid 31664 (Randiiwessen) is named in his honor.  
(The speaker will present in person.)

----------------------------------------

**moderator**  
**Dr. Jeff Puschell**  
AIAA Region VI Director of Education, AIAA Fellow, SPIE Fellow  
Consulting Engineer in the Office of the Chief Architect for OPIR & Geospatial Systems  
Northrop Grumman Corporation | Space Systems

Physical Location  
Billie Jean King Main Library  
Main Library Meeting Room A  
200 W Broadway, Long Beach, CA 90802  
(This event is not sponsored by the Billie Jean King Main Library)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>12:30 pm PST</td>
<td>Check-in, Networking.</td>
</tr>
<tr>
<td>12:55 pm PST</td>
<td>Welcome and Introduction</td>
</tr>
<tr>
<td>01:00 pm PST</td>
<td>Presentations and Q&amp;A</td>
</tr>
<tr>
<td>02:30 pm PST</td>
<td>Adjourn. Networking. Wrapping up.</td>
</tr>
</tbody>
</table>

Disclaimer: The views of the speakers do not represent the views of AIAA or the AIAA Los Angeles-Las Vegas Section.

Contact: General Contact: [contact@aiaa-lalv.org](mailto:contact@aiaa-lalv.org), Events/Program [events.aiaaalv@gmail.com](mailto:events.aiaaalv@gmail.com)
AIAA LA-LV 12/13 Section Aero Alumni (Hybrid) Meeting

Wednesday, December 13, 11 AM - 1 PM PST (GMT -0800) (US and Canada)

Aero Alumni Meeting

Zoom on-line meeting and in-person as well.

Our monthly Aero Alumni Zoom meeting is at 11 am PST (on-line and in-person) on December 13 (The 2nd Wednesday of December). It will be a hybrid meeting. "Aero Alumni" are retirees from aerospace industries. All public are welcome to attend. Open to public with free admission. Please Contact [Mr. Gary Moir](mailto:gary.moir@ingenuir.com) for your attendance, on-line or in-person.

**In-Person in:**
A C Bilbrew Library
150 E. El Segundo Blvd, Los Angeles, CA 90061

(This meeting is not sponsored by the A C Bilbrew Library)

(South of Hwy 105, East of Hwy 110, North of Hwy 91, and West of Hwy 710)

No lunch will be provided by the AIAA LA-LV Section.

**Online on Zoom:**

Join Zoom Meeting: [https://aiaa.zoom.us/j/83901842953?pwd=ZDVlcn0NNUVZszZehQO3NsTmJzNVZmdz09](https://aiaa.zoom.us/j/83901842953?pwd=ZDVlcn0NNUVZszZehQO3NsTmJzNVZmdz09)

**Meeting ID:** 839 0184 2953  
**Passcode:** 687375

One tap mobile [+16694449171,,83901842953#](tel:+16694449171) US, [+13462487799,,83901842953#](tel:+13462487799) US (Houston)

Dial by your location
+1 669 444 9171 US
+1 346 248 7799 US (Houston)
+1 719 359 4580 US
+1 720 707 2699 US (Denver)
+1 253 205 0468 US
+1 253 215 8782 US (Tacoma)
+1 507 473 4847 US
+1 564 217 2000 US

Meeting ID: 839 0184 2953

Find your local number: [https://aiaa.zoom.us/u/kygelM7k3](https://aiaa.zoom.us/u/kygelM7k3)

Please contact Mr. Gary Moir (gary.moir@ingenuir.com)
RSVP and Information: (To Be Announced)

Please join us for a warm and impressive meeting with the AIAA LA-LV 2023 Public Space Architecture Gathering on Saturday, December 16th, on-line, or in Lomita Library (in the Los Angeles area of Southern California, USA).

The event will start at 10:00am PST ONLINE, continuing HYBRID and available on-line afterwards. AIAA members (and non-members) are invited to join on-line or in situ and to meet with and listen to the leaders and practitioners in Space Architecture.

Tentative Agenda: (All Time PST (GMT -0800)) (US and Canada)
10:00 am: Welcome and Introduction
10:10 am: (Session I & II) AIAA SATC Presentations
13:10 pm: Panel Discussion and Q&A
14:10 pm: (Session III) Non-AIAA SATC invited Presentations
15:00 pm: Networking, Adjourn. (Meeting Room closes at 17:00 pm)

PRESENTERS: (On-line and in-person) (To Be Announced)

Disclaimer: The views of the speakers do not represent the views of AIAA or the AIAA Los Angeles-Las Vegas Section.
Contact: General Contact: contact@aiaa-lalv.org, Events/Program events.aiaalalv@gmail.com

aiaa-lalv.org | aiaa-lasvegas.org
engage.aiaa.org/losangeles-lasvegas
RSVP and Information: [https://conta.cc/3tX2WoX](https://conta.cc/3tX2WoX)

AIAA LA-LV 1/27 Section Meeting
Saturday, January 27, 2024, 11 AM PST (Check-in) / 1 PM PST (Talk)

In the Line of Duty:
Michael Adams and the X-15

by

Ms. Michelle Evans
Author, Bestseller "The X-15 Rocket Plane, Flying the First Wings into Space" Founder and President, Mach 25 Media (www.Mach25Media.com) AIAA Distinguished Speaker
Writer, Photographer, and Communications Specialist in aerospace
(The speaker will present in person.)

Location
Norwalk Regional Library, in the Meeting Room
12350 Imperial Hwy
Norwalk, CA 90650

Google Maps: [https://maps.app.goo.gl/41e8HHfPZd7EavSE6](https://maps.app.goo.gl/41e8HHfPZd7EavSE6)
(This event is not sponsored by the Norwalk Library)

(Tentative Agenda: (All Time PST (GMT -0800)) (US / Canada)
11:00 am: Check-in, Networking.
11:30 am: Documentary film "Research Project X-15" (25m)
12:00 pm: Lunch for those who bring own’s lunch. Networking. Book-signing
12:55 pm: Welcome and Introduction
01:00 pm: Presentations and Q&A
02:30 pm: Documentary film "The Rocket Pilots" (75 min), commentary/further Q&A
04:00 pm: Adjourn. Networking.
05:00 pm: Leave meeting room by 5 pm.

Disclaimer: The views of the speakers do not represent the views of AIAA or the AIAA Los Angeles-Las Vegas Section.
Contact: General Contact: contact@aiaa-lalv.org, Events/Program events.aiaalalv@gmail.com

aiaa-lalv.org | aiaa-lasvegas.org
engage.aiaa.org/losangeles-lasvegas