

May 2019

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Aeronautics and Astronautics,
Los Angeles-Las Vegas Section

AIAA Los Angeles-Las Vegas University Student Branches Mini-Conference 2019

Authors represent the Cal State University at Long Beach, UCLA, USC, and UNLV Chapters of AIAA, and the Los Angeles chapter of INCOSE



The Career Sharing Panel: top: Moises Seraphin (AIAA Los Angeles-Las Vegas Young Professionals Chair), Marc Leatham (Booz Allen Hamilton), and Alan Chan (Alan Chan Red Rover). Bottom from left Dr. Nahum Melamed (The Aerospace Corporation), Bill Kelly (Aerojet Rocketdyne), Dr. Rostislav Spektor (The Aerospace Corporation)
(Photos continued on page 4. Story starts on page 5.)

Photos courtesy of Kenneth Lui, Program/Events Chair, AIAA Los Angeles-Las Vegas Section

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Student-led Microsatellite and Micropropulsion Development

AIAA Los Angeles-Las Vegas March Dinner Meeting

By Douglas Ikemi
Aerospace Engineer, Retired

On Wednesday, March 20th, 2019 at the Manhattan Beach Library, Dr. Amelia Greig gave a presentation on Student-led Microsatellite and Micropropulsion Development as part of the AIAA LA-LV Section Dinner Meeting. Dr. Amelia Greig is Assistant Professor in the Aerospace Engineering Department, California Polytechnic State University, San Luis Obispo, California.

Dr. Greig's talk began with some background, especially about her home country of Australia. This was followed by an overview of the Cal Poly Cubesat Lab, also known as PolySat. I did find a corresponding web page at <http://www.polysat.org/>, but this website is not as comprehensive as the presentation. The Cal Poly cubesats do have a flight history, although the first two attempts, CP1 and CP2 were lost with the loss of the Dnepr flight 7 (per the Dnepr wikipedia article, although Dnepr 1 is referenced in the Polysat website). Polysat does fabricate two units of each build, which is a nice luxury you can afford with cubesats and I imagine is one of their advantages. It does allow them to recover quickly from a flight loss. Cubesats can be developed more quickly than full-sized satellites, but PolySat has had some units sit on the shelf for a while waiting for launch opportunities. The missions are described in the website.

We did get to see what their cubesat launcher looks like. I always wondered how you eject them. Multiple cubesats can be ejected from a spring-loaded (I think) launcher.

PolySat has a fairly sophisticated management structure that reminded me of a typical aerospace company. They are not just organized into a team. This is probably good preparation for joining the corporate world some-



From left: Seth Potter (AIAA LA-LV National Space Society Ambassador), Moises Seraphin (AIAA LA-LV Young Professionals Chair), speaker Amelia Greig, Dennis Wonica (AIAA LA-LV Enterprise Program Chair), Kenneth Lui (AIAA LA-LV Programs/Events Chair), Matthew Mundy (AIAA LA-LV STEM K-12 Chair).

Photo courtesy of Kenneth Lui

day. PolySat also has a complete test lab including shaker tables and environmental chambers. They do have a thermal vacuum chamber, but I didn't quite figure out if they have in-air thermal cycling. There are 3 ground stations on campus and they are working on or have cooperative agreements with similar facilities in other parts of the world.

The final part of Dr. Greig's talk focused on her specialty, which is propulsion. They currently have different approaches for the three different tasks of precision pointing, non-time critical orbital maneuvers, and

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Las Vegas' First Yuri's Night Was a Big Success!!

By Marty Waldman

Chair, Las Vegas Chapter, AIAA-Los Angeles Las Vegas



After years of wishing we had the 'critical mass' to hold the first Yuri's Night in Las Vegas, April 12, 2019 was the date that it finally happened.

Through alliances with the Nevada Aerospace Professionals Meetup Group and NDIA membership, we maintained an average of approximately 10-15 attendees as people came and went during the approximate 3 hours at a terrific local Italian Restaurant.

Attendees simply ordered from the menu if hungry, and new professional alliances were built over the

continual networking while eating, or simply standing and chatting.

Andrea Diamond contributed one of her fantastic creative artistic aerospace tapestries to the event. This tapestry invited freehand space-themed art expressions (you can see one of the attendees in the bottom center with a paint marking pen in-hand).

We look forward to at least doubling the number of attendees next year. We didn't decide to hold this event until April 5th, but it all came together as a terrific success, despite the short 7 days of planning time!



Top: The CSULB Beach Launch Team.

Bottom left: The UNLV chapter of AIAA was represented. From left: Peter Bowles, member; Luis Cuevas, President; Donaji Jimenez, member; Louis Demola, member; Matthew Mundy, AIAA LA-LV STEM-K-12 Chair.

Bottom right: The CSULB Beach Launch Team information poster.

Photos courtesy of Kenneth Lui



AIAA LA-LV University Student Branches Mini-Conference 2019 *(continued from page 4)*

Karen Grothe, Membership Director, INCOSE Los Angeles: I was pleased to be invited by AIAA Los Angeles-Las Vegas Events Chair Kenneth Lui to be an exhibitor representing the International Council on System Engineering Los Angeles Chapter (INCOSE LA) at the AIAA University Student Branches Mini-Conference 2019, held at the Hawthorne Memorial Center on Saturday, March 2, 2019. I had been planning to attend the event anyway, so I accepted the opportunity to represent INCOSE LA and talk systems engineering with students from California State University Long Beach (CSULB); the University of Southern California (USC); the University of California, Los Angeles (UCLA); and the University of Nevada, Las Vegas (UNLV).

The Mini-Conference had a full day program, featuring the following presentations:

“Planetary Defense and Near Earth Objects (NEOs) Deflection Application” by Dr. Nahum Melamed of The Aerospace Corporation. In this overview of the threat of space debris and NEOs, Dr. Melamed discussed the work of the Aerospace Corporation’s

Center for Orbital and Reentry Debris Studies (<https://aerospace.org/cords>). He pointed out that deflection of a NEO in deep space requires long lead times on the order of decades. Extreme short warning objects can be intercepted with a missile. The NEO Deflection App (<https://cneos.jpl.nasa.gov/nda/>) simulates such interceptions, allowing the user to try out different types of missiles and trajectories.

“Plasma/Electric Propulsion” by Dr. Rostislav Spektor, also of The Aerospace Corporation. Dr. Spektor talked about the work going on at The Aerospace Corporation’s Propulsion Science Department in the Electrical Propulsion Section. He gave an overview of plasma propulsion systems, particularly Hall Thrusters and tiny thrusters that can be used in CubeSats.

“Mars/Planetary Driving Simulator” by Alan Chan. Mr. Chan gave a presentation about the planetary driving simulator, Red Rover, that he designed using actual Mars imagery from the Mars Reconnaissance

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Leo Aerospace has two current openings:

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Program Manager - click below for job description and to apply
<https://www.indeedjobs.com/leo-aerospace/jobs/60c1ff3e0be448f2be84>

For both positions: Contact: Bryce Prior – bryce@leo-aerospace.com
To learn more about Leo Aerospace, visit <https://www.leo-aerospace.com/>

Future AIAA Los Angeles-Las Vegas Section Events (and continued on page 11)

AIAA LA-LV Apollo 11 50th Moon Landing Anniversary and Lunar Exploration Event

Saturday, July 13, 2019

12 noon - 5:00 pm

Santa Monica Public Library

MLK Jr Auditorium (140-150 seats, with a small reception room)

(No food allowed in the room. No food will be offered)(\$5 max. if using their underground parking)

Watch your email for the announcement with the registration link

12:00 noon -12:30 pm Check-in

12:30 pm - 2:45 pm Moon Landing Anniversary Session

2:45 pm - 5:00 pm Lunar Exploration Session

Government, commercial, and academic lunar exploration efforts will be discussed in the lunar exploration session.

Apollo 11/Moon Landing Anniversary Session

Carl Stechman, Michelle Evans, Robert Norcross Jr., more TBD

Lunar Exploration Session

Prof. David Barnhart, Dr. Jeffrey Puschell, more TBD



Top left and right: USC Aero Design Team members.

Top left: Queenique Dinh, Randi Arteaga - Chair - USC AIAA Propulsion Lead of USC's Design/Build/Fly Team sponsored by AIAA.

Top right: from left, Chentao Yu, Industry Representative; Emma Morrissey, Vice President; Randi Arteaga.

Bottom: Marc Leatham showing an example of astrophotography, also shown in his talk.

Photos courtesy of Kenneth Lui





From left: Eric Wong, Assistant Airframe Director and Sponsorship and Outreach Liaison in Unmanned Aerial Systems at UCLA (UAS@UCLA); Gavin Moss, an active member of UCLA's Design Build Fly (DBF) club; Oliver Lam, External Vice President of AIAA UCLA, active member of DBF; David Thorne, Airframe Director and Treasurer in UAS@UCLA. The person sitting down is Thinh Tu, an active member of DBF.

Photo courtesy of Kenneth Lui

Orbiter's High Resolution Imaging Science Experiment (HiRISE) instrument. Red Rover uses stereo pairs of nearly identical pictures to generate 3D images to allow the user to experience what it might be like to drive an ATV-inspired vehicle over the surface of Mars. Red Rover is available on Steam, a video game distribution platform (<https://bit.ly/2Yk00SX>).

"Mars, Robots, and Fellowships" by Bob Barboza of Barboza Space Center. Mr. Barboza gave an overview of the Barboza Space Center's efforts in robotics and Science, Technology, Engineering, Arts, and Mathematics (STEAM) education. The Center offers internships, fellowships, and prototyping opportunities for middle school, high school, and university students.

The CSULB Beach Launch Team presented their latest test results from their static test on February 15 and 16 of their B1-B launch vehicle, describing the problems they encountered and their lessons learned. The B1-B has a LOX and Jet-A kerosene pressure-fed propulsion system.

"Astrophotography: The Dark Arts" by Marc Leatham, a systems engineer at Booz Allen Hamilton. Mr. Leatham described how he learned astrophotography and what equipment he recommends for wide field astrophotography. His presentation featured many beautiful space images he has taken over the last few years.

In addition, the student chapters each had fifteen minutes to present about their student chapter activities and the aerospace projects going on at their schools. The students at CSULB can participate in Design, Build, Fly (DBF) remote-controlled (RC) aircraft designs (via the Long Beach Aviation (LBA) team), Beach Launch Team (BLT), and Long Beach Rocketry projects. Students at UCLA have three student projects available: DBF, the Rocket Project at UCLA (URP), and Unmanned Aerial Systems (UAS). Students at USC can participate in the AeroDesign Team, which competes in the DBF competition. Although UNLV does not have an aerospace engineering major for undergraduates, students in UNLV's AIAA Student Branch can participate in DBF and 3D

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Student-led Microsatellite and Micropropulsion Development *(continued from page 2)*

time critical orbital maneuvers. They have a lab model of an electrospray thruster which is in test with the electronics under development. There is an integrated model of an electrothermal plasma thruster in ground test. A monopropellant thruster is in the design phase only and they are restricted to only safe propellants on campus. Propulsion can be packaged as standalone boxes which are volume inefficient or integrated into the main structure which is more efficient but more complex (same trade-off we had in general with big satellites). The goal is to provide an educational opportunity for students to integrate and test a design.

The summary of the talk noted that micro-propulsion for small satellite missions is student led. Students have been involved with and led launch of 10 micro-satellites with 3 more in development. Integration and testing is important for the mission and student learning.

Author bio: Douglas Ikemi is retired from 39 years in the aerospace industry, primarily thermal design, analysis, and test of earth orbit satellites for commercial and government applications. He has a BS from Harvey Mudd College and an MS in mechanical engineering from Caltech.

AIAA LA-LV University Student Branches Mini-Conference 2019 *(continued from page 8)*

Printed Aircraft competitions, Spaceport America Cup Rocket Competition, and RC airplane projects for beginners. Both CSULB's BLT and UCLA's URP rocket launch teams are participating in the FAR-Mars Launch Contest (<https://bit.ly/2WAZ879>).

The event ended with a panel of several of the speakers, the AIAA LA-LV Young Professionals Chair, and the representative from Aerojet Rocketdyne discussing their careers and answering the students' questions.

Karen Grothe has 16 years of experience working in the aerospace industry as a systems engineer at McDonnell Douglas, Boeing and Raytheon. She has a passion for planetary science, astronomy, and space exploration, and in particular how small spacecraft (like Cubesats) can facilitate more of that. She is currently serving as the Membership Director for the INCOSE LA chapter and the President of Westside Toastmasters club.

Oliver Lam, UCLA AIAA: The AIAA Student Branch at the University of California, Los Angeles attended the AIAA Los Angeles-Las Vegas Mini-Conference in Hawthorne, California on March 2nd, 2019. We had 5 members, representing our various technical projects, participating in the conference. The experience

was both fun and educational as we shared and learned about what our counterparts do at other universities. We noticed that Design/Build/Fly and Rockets teams were common across the other AIAA chapters, and it was interesting to see how each university managed their club and the projects they worked on. Furthermore, the numerous companies that came out that day to present gave us a broad view of the aerospace industry and how it relates to and impacts other industries. From tackling space junk to designing a game to simulate Mars, from satellite technology to astrophotography, the entire conference was filled with excitement and interesting topics.

Oliver Lam is a sophomore this year at UCLA. He is also on the Design Build Fly team at UCLA.

Abel Rodriguez, CSULB AIAA: There was an interesting variety of topics presented at this event! You can really tell that every guest speaker who presented was passionate about what they spoke about. I didn't realize how difficult it was to photograph the night sky (nor how expensive it is!) before this event. There was another very interesting presentation done by an extremely driven fellow who developed a video game in which you're able to drive
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AIAA LA-LV University Student Branches Mini-Conference 2019 *(continued from page 9)*

along the Mars terrain! What's truly amazing is how intrinsically detailed it is, and it's apparent to anyone how much work was required to make something like that a reality. It gave everyone who attended a nice opportunity to experience what it may be like to drive on Gale Crater, although we hope to do that soon in real life.

The AIAA Student Branches were also in attendance and gave their own presentations of their respective chapters within the AIAA LA-LV section. It appears all chapters are making great efforts to provide their members opportunities to develop themselves as professionals within the aerospace field. The student projects are giving members valuable hands-on experience, allowing them to learn and apply concepts they're being taught in their classes. The mini-conference was a great opportunity to meet new people who were all interested in different things within the aerospace field. Events like these provide good opportunities to meet people who are as interested in aerospace as you are.

Abel Rodriguez is the Co-Chair of the AIAA student chapter at California State University, Long Beach. He studies aerospace engineering with a focus in astronautics. Abel is also the lead for propulsion development at the student liquid rocket development program, Beach Launch Team at CSULB.

Luis Cuevas, AIAA UNLV: Attending the LA-LV Mini Conference on March 2nd was an awesome experience as an undergraduate. Despite having driven 5 hours in the rain and dark, my classmates and I had a blast at this event. We met a variety of people connected to the industry and sat on some very interesting discussions and presentations. As president of UNLV AIAA, I have always stressed how important it is to network and talk to individuals from the industry to gain perspective and insight into one's own career. This mini conference is such a perfect event to do just that. Another big reason why UNLV enjoyed the mini conference this year was due to our interactions with the different AIAA chapters from the California universities. This was

our first year competing in Design, Build, Fly, so listening to how universities tackle the competition in terms of technical details and competition metrics was very insightful. It was really humbling to see our university is on the right track to continue competing in DBF every year. Competitions aside, it was nice meeting and talking with everyone from student chapters. UNLV AIAA is extremely grateful to our local LA-LV section for putting on such a great event and not forgetting about us in Sin City.

My name is Luis Cuevas, and I am a senior mechanical engineering student at UNLV. I have been involved with my student chapter for three years now, and I am very glad I did because since then I have never looked back. I enjoy learning about aviation history and building RC aircraft.

Randi Arteaga, USC AIAA: The student branch mini-conference was an enriching experience, leaving student members with lasting connections among each other as well as among industry professionals. This event provided us the opportunity to present on our branch activities and gain inspiration from our fellow branches. The various exhibitors seemed to cover everyone's interest, ranging from astrophotography and Mars driving simulators to presentations on space debris and plasma propulsion. At the end of the event a panel was organized featuring some of the presenters, where students were free to ask whatever lingering questions we still had and welcomed any advice these experienced professionals had to offer. This panel was one of the more memorable parts of the event for our branch, giving us the advice of those who have once before been in our shoes. Overall, the event was well-suited to the needs of the student branches and the friendly environment allowed us all to make lasting, worthwhile connections.

Randi Arteaga is a second-year undergraduate studying Aerospace Engineering at the University of Southern California. She is the Branch Chair of the USC AIAA student branch, and is the Propulsion Lead of USC's Design/Build/Fly Team, sponsored by AIAA.

AIAA LA-LV Section Dinner Meeting

Thursday, May 23rd, 2019

Remotely Piloted / Unmanned Aircraft: A Pilot's Perspective on Flying Drones

Mark Pestana

Colonel, USAF (ret)

Research Pilot and Spaceflight Operations Engineer



Colonel Mark Pestana, USAF (ret), presents a short history and recent developments in the revolution of remotely piloted, or unmanned, aircraft systems. He served as a NASA research pilot, in collaboration with the FAA, and helped develop and test advanced drone capabilities for safe and efficient flight in the National Airspace System.

Katy Geissert Civic Center Library (Next to Torrance City Hall)

(aka. Torrance Public Library (Main Library))

Meeting (Community) Room (on the left right after entering the Library)

3301 Torrance Blvd, Torrance, CA 90503

(South of 105 and 405 Hwy and West of 110 Hwy, North / East of Pacific Coast Hwy (1))

Parking

Parking lot next to the Library

Thursday, May 23, 2019, 5:00PM - 8:30PM (Presentation starts at 6:45 PM)

(Ticket sale will end after Tuesday, May 21, 2019)

Dress Code - Business Casual

Contact events.aiaalav@gmail.com or (949)426-8175 if any questions

RSVP & Information

<https://events.r20.constantcontact.com/register/eventReg?oeidk=a07eg701a26c37c232f&oseq=&c=&ch=>

AIAA Los Angeles-Las Vegas Section Dinner Meeting

Tuesday, June 18th, 2019

Astrophotography: The Dark Arts

Marc Leatham

Space Systems Engineer

Booz Allen Hamilton



Marc Leatham is a new career Space Systems Engineer working for Booz Allen Hamilton in El Segundo. His work tasks focus on modeling The Gateway Spacestation for NASA, but his true love for science and space stems from the unique hobby of taking pictures of nebulae and galaxies with his backyard telescope. In recent years his work has begun to gain more attention, resulting in it being hung in establishments around the world. When possible, Marc travels the western states presenting the story of finding a love for engineering through discovering the cosmos, and how you can too.

Manhattan Beach Library
1320 Highland Avenue
Manhattan Beach, CA 90266
(South of 105 Hwy and West of 405 Hwy/Pacific Coast Hwy (1))

Parking

<http://www.cityymb.info/home/showdocument?id=7678>

(Lot 8 - Free - 10 hour limit, Lots 5, 6, 14, & 15 - \$.75 per hour - 2 hour limit)

Tuesday, June 18, 2019

Part I: 5:30PM - 8:00PM: Indoor Presentation (Presentation starts at 6:45 PM)

Part II (clear sky) 8:00PM - 11:30PM (Outdoor telescope demo and sky-viewing)

Part II (cloudy) 8:00PM - 9:00PM (Indoor Presentation/demo)

(Library closes at 9:00 PM. Outdoor telescope demo (sky-viewing) in the patio.)

(Ticket sale will end after Sunday, June 16, 2019)

Dress Code - Business Casual

Contact events.aiaalav@gmail.com or (949)426-8175 if any questions

RSVP & Information

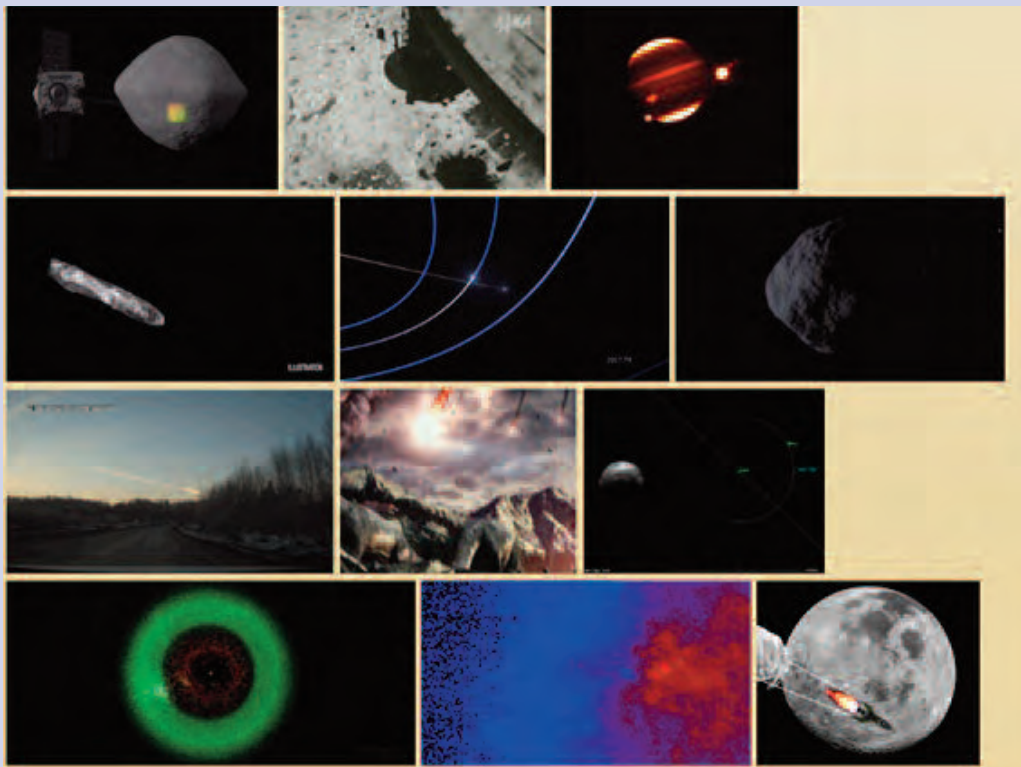
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(No Refund within 7 days of the event or afterwards)

An AIAA LA-LV Section Mini-Conference

Saturday, June 29, 2019

Planetary Defense and Asteroid Exploration 2019 Mini-Conference



With featured speakers (in alphabetical order) Planetary Defense (Morning) Sessions

Dr. William H. Ailor (The Aerospace Corporation)

"Overview and Summary of the 2019 IAA Planetary Defense Conference"

Dr. Davide Farnocchia (Solar System Dynamics Group, NASA's JPL)

"Orbit determination and impact hazard assessment for near-Earth objects"

Dr. Nahum Melamed (The Aerospace Corporation)

"Introduction and NEOs Deflection App Workshop"

(Attendees need to bring own's laptop with WiFi capabilities)

Prof. Madhu Thangavelu (USC)

"Evolving A Planetary Defense Capability through Orbital Debris Mitigation"

"Establishing An Earth-Moon Planetary Defense Architecture"

Asteroid Exploration (Afternoon) Sessions

Dr. Niraj K. Inamdar (RAND Corporation)

"Visitors from Our Solar and Galactic Neighborhood: 'Oumuamua and the Possibility of Visits by Rocks from Exoplanetary Systems"

Eric Mahr (The Aerospace Corporation)

"OSIRIS-REx Sample Return Mission Overview"

James Soroka (Law Offices of J W Soroka)

"Space Laws and Legal Aspects of Planetary Defense and Asteroid Exploration"

It is the International Asteroid Day again! In previous years, the AIAA LA-LV Section has held the Planetary Defense and Asteroid Exploration (PDAE) Mini-Conference, supported the Near Earth Objects (NEOs) Deflection App Hands-on Workshop, or supported solo presentations on this special date. This year on June 29 in this PDAE mini-conference, we will discuss the various aspects of Planetary Defense and Asteroid Exploration to bring more public attention to this important subject. The recent exciting news about discovery of the first interstellar "asteroid" and the OSIRIS-REx and JAXA's Hayabusa2 missions will also be discussed. The legal aspects / space laws will be discussed.

More and more of these objects are being discovered and monitored daily, dramatically updating our view of the solar system in this regard thanks to dedicated efforts by planetary scientists, engineers, and support from the society.

This mini-conference will introduce the NEO (and other possible) threats, covering past events, real-time close approaches and Earth impact risk, NEO discovery, tracking, and mitigation concepts. Recent advances, progress, and updates in the related efforts, including the NEO Deflection App, various approaches and issues for Planetary Defense (for instance, once built and deployed, how to keep the very complex system of Planetary defense radars, controls, interceptors, and etc. working forever with constant but timely technology updates, and the directed energy approaches), and Asteroid Exploration (mining and economics etc.), will be discussed. This important subject not only has great impact on the aerospace community, but also the survival, civilization, prosperity, sustainment, and continuation of humanity.

Please join us and bring your questions or suggestions to participate in this important and interesting event.
Palos Verdes Peninsula Center Library (Community (Meeting) Room, 3rd Floor)
701 Silver Spur Road
Rolling Hills Estates, CA 90274
(South of 405 Hwy / PCH 1 Hwy, West of 110 Hwy, and North/East of the Pacific Ocean)
(In between Hawthorne Blvd. and Crenshaw Blvd., on Silver Spur Road)

Parking is located on the roof of the Peninsula Center Library (accessed from Deep Valley Drive) and the second floor garage (limited) for underground parking (accessed from Silver Spur Road).

Saturday, June 29, 2019, 9:10 AM - 4:00 PM
Presentation starts at 9:30 AM, with Lunch break around 12 PM Noon.
(Seats/Tickets are limited. RSVP will end after Friday, June 28, 2019, or whenever all seats are filled.)

Dress Code: No open-toe shoes

Contact:
events.aiaalv@gmail.com or (310) 742-4212 / (949) 426-8175 (phone/text ok)
(AIAA LA-LV Events/Program Chair)

RSVP & Information
<http://events.r20.constantcontact.com/register/event?oeidk=a07eg9ymv3a5f68a88&llr=p9tbt6cab>

A free event but RSVP is required/preferred
(Food/lunch, snacks and beverages are NOT included or provided)
(Only coffee and bottled water will be provided.)