Join AIAA!

Just go to aiaa.org and join today! The AIAA San Diego section offers new members who joined within the last 30 days a FREE event.

Just bring your new member ID and proof of new membership at the door and you get your free event!

UC San Diego Artemis Watch Party

NASA’s Artemis program aims to have the first woman and next man set foot on and explore the Moon by 2024, and establish sustainable exploration by 2028, all with the greater plan in mind of landing on Mars in the late 2030s.

In this extraordinary broadcasted event, a panel of NASA speakers will be sharing with us what WE can do to contribute to this revolutionary venture.

AIAA@UCSD is proud to present this event through NASA TV, where attendees will be allowed to ask questions in real time. Afterwards, speakers will come up on stage and share their own experiences with the Artemis program, space exploration, and Aerospace Engineering.

Get your FREE tickets today at tinyurl.com/AIAAUCSDtix, or via the QR code below.

See the flyer on the next page.

Upcoming Technical Event - Aircraft Tires

Keith Finch, from NAVAIR North Island, will tell you some surprising facts about where the rubber meets the carrier deck at our newest technical event!

**Thursday, October 17th**
6:00-8:00 pm
Filippis Pizza Grotto
1747 India St., San Diego, CA 92101
$12 AIAA Members | $15 Non-AIAA
$5 Students w/ ID | Free AIAA Students
AMERICAN INSTITUTE OF AERONAUTICS AND ASTRONAUTICS
UC SAN DIEGO
PRESENTS WITH SUPPORT FROM UNIVERSITY CENTERS

SPACE & STEM
WHERE DO YOU FIT IN?

NASA
ARTEMIS

23 OCT
PRICE THEATER
3 PM
Apollo 11 Moon Landing 50th Anniversary Celebration

July 20th was the 50th anniversary of the Apollo 11 Moon landing, the first time humanity touched another celestial body. At the suggestion of one of our members, AIAA organized a discussion panel about the Apollo 11 Moon landing and held it in the Pavilion of Flight at the San Diego Air and Space Museum (SDASM).

Our panel proved a good start to the evening, which finished with SDASM’s screening the Smithsonian film, “The Day We Walked on the Moon”. Guests were able to tour the museum and see the special exhibits, “Space: Our Greatest Adventure”, and “Eureka: An Interactive History of Science”.

Jim Kidrick President and CEO of SDASM welcomed an audience of 600 guests. Later, radio personality, Mark Larsen, introduced the film. Chris Root, AIAA’s distinguished Master of Ceremonies, introduced the panel and posed questions to them through the evening. The panel members ranged from engineers for the original Apollo program to researchers working on technologies that will assist our return to the Moon.

The panel discussed the effects of Apollo we see today, the prospects for returning to the Moon, going beyond, and how we might get there.

Learn more about our distinguished engineers on the next page!
Ahmad Bani Younes, Ph.D. -- San Diego State University
Dr. Ahmad Bani Younes spoke about his research at SDSU in Astronautics, Guidance Navigation and Control, and Space Robotics and Autonomous UAVs. He is advancing the state of the art with his Spacecraft Platform for Astronautics & Celestial Emulation (SPACE) laboratory at SDSU, which aims to be a 6 Degree Of Freedom facility supporting experiments for sensing, guidance, dynamics, and control of space operations in an operationally relevant environment.

D B Howes -- NASA Johnson Space Center (ret)
Mr. Howes has a long history in the aerospace industry dating back to development of the B-52H bomber. He worked on aerodynamics for the Gemini, Apollo and Space Shuttle programs and continues his post retirement career as a consultant.

Bill Rundle -- National Ignition Facility at Lawrence Livermore Laboratory (ret)
Bill Rundle started his career in the early 60’s in Santa Monica, California, at Korad, the laser company founded by the inventor of the laser, Ted Maiman. There he developed ruby lasers for use on laser ranging applications, such as satellite ranging and tracking. From 1969 to 1984, after overcoming various challenges, Mr. Rundle modified and operated lasers, which ranged to the retroreflector placed on the Moon by the Apollo 11 astronauts. Later Mr. Rundle designed “dye” lasers and a portion of the National Ignition Facility at Lawrence Livermore Laboratory for studying laser fusion.

Dr. David Schrunk -- Author, Valley Radiology Medical Group (ret)
David G. Schrunk is an aerospace engineer and medical doctor specializing in nuclear medicine and diagnostic radiology. He worked briefly for the NASA Manned Spacecraft Center in 1967 and for McDonnell Douglas Astronautics in 1970. Dr. Schrunk practiced medicine in Escondido, California for twenty years and, upon retirement, became active in the space community. He has numerous papers and presentations and is lead co-author of, “The Moon: Resources, Future Development, and Settlement,.” In his book and papers, Dr. Schrunk describes the recent discovery of lava tubes on the Moon and how they could be used for permanent human settlement. Lava tubes are fortuitous geologic structures which would are large underground caves which could provide ready made shelter and more importantly, protection against space radiation, one of the biggest hurdles that must be overcome, before humans can settle beyond low Earth Orbit.
AIAA-SD Newsletter
October 2019

AIAA Trivia Night

AIAA SD hosted a Trivia Night at Attitude Brewing Company in Barrio Logan on September 5, 2019. The trivia was challenging and included historical facts about aviation, space exploration, aerodynamics outside of the aviation industry (e.g. in the automotive industry), and current technologies. The winner of the night was Nick Candrella -- who led by two questions -- with runner-up, Cesar Martin.

[Credit: Zachary Annala]

2019 AIAA Awards Banquet

Each year the AIAA San Diego section holds a gala Awards Banquet to recognize accomplishments by the local San Diego aerospace community. This year’s banquet was held on Thursday May 9, 2019, at The Butcher Shop Steakhouse. 86 guests were there to honor some of the best in San Diego aerospace.

Since 1983, 202 students have received the Reuben H. Fleet scholarship. The Reuben H. Fleet Foundation at The San Diego Foundation, along with member donations, make the scholarships possible.

AIAA national sponsors a yearly competition called Design Build and Fly (DBF). Teams from universities make remotely piloted aircraft, which compete at the national DBF fly-off. For making a higher standing at the fly-off, last year’s winner, UCSD, kept the San Diego Section perennial DBF trophy.

AIAA selected the best three aviation related projects from the 64th Annual Greater San Diego Science and Engineering Fair held March 15 through 17, 2019. Solaiman Alwazir, James Blue, and Ken Lew were awarded $200 for their projects, “Drone Disaster, First Responder”, “Quantifying Model Airplane RPM at Full and Half Throttle”, and “Graphene Composite Material and Heatsink Application in Fire Resistant Drone Design”, respectively.

[Credit: Keith Glassman]
The table below lists the recipients of awards given out by the AIAA San Diego section for accomplishments by local San Diego aerospace companies and individuals. Also listed are AIAA National Awards given to the San Diego Council for their efforts.

**Awards from the AIAA San Diego Section, Open to All**

<table>
<thead>
<tr>
<th>Award</th>
<th>Honoree &amp; Professional Affiliation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lifetime Achievement Award</td>
<td>Allen Plotkin, Ph.D. San Diego State Univ. Dept of Aerospace Eng</td>
</tr>
<tr>
<td>Outstanding Achievement by an Aerospace Organization</td>
<td>NAVAIR North Island E-2D Depot Standup at North Island FRCSW Sheri Villena Accepting for the Program</td>
</tr>
<tr>
<td>Outstanding Contribution to Aerospace Engineering</td>
<td>Claudia Moyer General Atomics Aeronautical Systems, Inc.</td>
</tr>
<tr>
<td>Outstanding Contribution to Aerospace Engineering</td>
<td>Brandon Suarez General Atomics Aeronautical Systems, Inc.</td>
</tr>
<tr>
<td>Outstanding Contribution to Aerospace Management</td>
<td>Chris Dusseau General Atomics Aeronautical Systems, Inc.</td>
</tr>
<tr>
<td>Outstanding Contribution to Aerospace Education</td>
<td>Gary Fogel Natural Selection, Inc.</td>
</tr>
<tr>
<td>Outstanding Enhancement of the Image of the Aerospace Profession</td>
<td>Tony Pacheco NAVAIR North Island, FRCSW</td>
</tr>
</tbody>
</table>

**Awards from the AIAA San Diego Section, for AIAA Members Only**

<table>
<thead>
<tr>
<th>Award</th>
<th>Honoree &amp; Professional Affiliation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outstanding Contribution to the AIAA San Diego Section by an AIAA Member</td>
<td>Keith Glassman NAVAIR North Island, FRCSW</td>
</tr>
<tr>
<td>Outstanding Contribution to AIAA at the National Level</td>
<td>Cesar Martin NAVAIR North Island, FRCSW</td>
</tr>
<tr>
<td>Outstanding Contribution to the AIAA San Diego Student Chapter</td>
<td>Nikola Draganic University of California, San Diego</td>
</tr>
<tr>
<td>Outstanding Contribution to the AIAA San Diego Student Chapter</td>
<td>John Andrew San Diego State University</td>
</tr>
</tbody>
</table>

**Awards from AIAA National**

<table>
<thead>
<tr>
<th>Award</th>
<th>Honoree, Position &amp; Professional Affiliation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outstanding Section - 1st place</td>
<td>Ioana Broome Section Chair General Atomics ASI</td>
</tr>
<tr>
<td>Career &amp; Professional Development - 1st place</td>
<td>Ioana Broome Section Chair General Atomics ASI</td>
</tr>
<tr>
<td>Communications - 2nd place</td>
<td>Jin Oh Secretary General Atomics ASI</td>
</tr>
<tr>
<td>Membership - 1st place</td>
<td>Kathy Kucharski Membership Development Coordinator General Atomics ASI</td>
</tr>
<tr>
<td>Public Policy - 2nd place</td>
<td>John Kucharski Public Policy Officer NAVAIR North Island, FRCSW</td>
</tr>
<tr>
<td>STEM K-12 - 2nd place</td>
<td>Cristian Paunescu K-12 STEM Outreach Officer Northrop Grumman Aerospace Systems</td>
</tr>
<tr>
<td>Young Professional Activity - 1st place</td>
<td>Lindsey Sweeney Young Professional Officer Northrop Grumman Aerospace Systems</td>
</tr>
<tr>
<td>Outstanding Activity</td>
<td>Atlas First Launch Pioneers Celebration - 60 Year Anniversary Ioana Broome &amp; Keith Glassman</td>
</tr>
</tbody>
</table>
AIAA San Diego Invites You to a Technical Lecture on

AIRCRAFT TIRES

With Guest Lecturer Mr. Keith Finch
NAVAIR Fleet Readiness Center Southwest

The pneumatic tire is something most of us are familiar with, or so we think...

Did you know there are two major structural designs for tires?

Which design is used on aircraft, and why?

When a navy pilot experiences a tire blow-out, what are the stakes?

Learn the answer to the above questions and more by attending this lecture focused on tires in aerospace applications.

Keith Finch is the U.S. NAVY’s aircraft tire support team lead, and premier tire expert, dealing with all of the fleet’s tire failure investigations, maintenance procedures, redesigns and retread escalations. During his 25+ year tenure at the Aircraft Tire Fleet Support Team he has helped reduce catastrophic tire failures by over 90%.

Date: Thursday, October 17th
Time: 6:00-8:00 pm
Location: Filippis Pizza Grotto Little Italy
1747 India Street
San Diego, CA 92101

Pizza, salad and soft drinks will be served!

Click here for tickets:
https://squareup.com/store/aiaa-san-diego-section/item/aiaa-technical-lecture-on-aircraft-tires

**50 people MAX attendance**

AIAA Members: $12
Non-AIAA Members: $15
Students w/ ID: $5
AIAA Students: Free

RSVP by October 16th
Questions about this event? E-mail: communications@aiaa-sd.org
Meet the Council
Chair
   Kimberly Painter
Vice Chair LRP
   Chris Root
Vice Chair Technical
   Joel Perez
Secretary
   Nick Candrella
Treasurer
   Lindsey Sweeney
Webmaster/Social Media
   Jin Oh
Newsletter Editor
   Sean Angelo Delos Santos
Young Professionals
   Zachary Annala
Region VI Delegate
   Kim Painter
Program Arrangements
   Bao Phan
K-12/STEM
   Rick Kenney
   Col. John Telles
Membership
   Abigail Cruz
Public Policy
   Cesar Martin
RHF Coordinator
   Keith Glassman
Honors & Awards
   Keith Glassman
Professional Liaison
   Byron Lowry
History & Bylaws
   Kevin Burns
SDSU Faculty Advisor
   Allen Plotkin
SDSU Chair
   Diego Chavez
UCSD Faculty Advisor
   Mark Anderson
UCSD Chair
   Laura Morejon Ramirez

Aircraft Tires
with Keith Finch
Thursday, October 17th
6:00-8:00 pm
Filippis Pizza Grotto
1747 India St., San Diego, CA 92101
$12 AIAA Members | $15 Non-AIAA
$5 Students w/ ID | Free AIAA Students

UC San Diego
Artemis Watch Party
Wednesday, October 23rd
3:00-6:30 pm
UCSD Price Center
9500 Gilman Dr., La Jolla, CA 92023
Get your free ticket at
tinyurl.com/AIAAUCSDtix

Editor: Sean Angelo Delos Santos, (818) 205-8670 or e-mail at sangelosantos98@gmail.com
Mailing address: AIAA San Diego Section, P.O.Box 3898, SanDiego, CA 92163-1898