

Summer/Autumn 2024



ODYSSSEY

The official newsletter of the Space Science
& Engineering Foundation

SSEF (Space Science Engineering Foundation) Registered Charity 1170548

COMING UP IN THIS NEWSLETTER!

Partnership Launch; United Airlines.

ISSDC Finals; News from Kennedy Space Center, Florida.

TOP TIP; Skeleton slides enable better collaboration.

Team Africa; A note from Jagger Cooper on the African team.

STUDENT STORIES: An interview with Molly Dathan, who competed in this year's ISSDC finals in Florida.

In Memoriam: Anita Gale co-founder of ISSDC.

LATEST SPACE NEWS FROM AROUND THE WEB; #space and #enviro on social.

Our list of wonderful sponsors and supporters, past and present.

Get ready for the 2024-2025 season of SSEF competitions and challenges.

Find upcoming UK Space events- [Click Here](#)

Find upcoming UK Eco events- [Click Here](#)

FEATURE



United Airlines and Space Science and Engineering Foundation announce an exciting partnership

We are thrilled to announce an exciting new partnership between the Space Science and Engineering Foundation and United Airlines. Starting in 2025, United Airlines will be the official sponsor of the UK team's flights to the International Space Settlement Design

Competition (ISSDC) in Florida. This collaboration marks a significant milestone for our foundation, as it will help to ensure that more students can participate in this prestigious event.



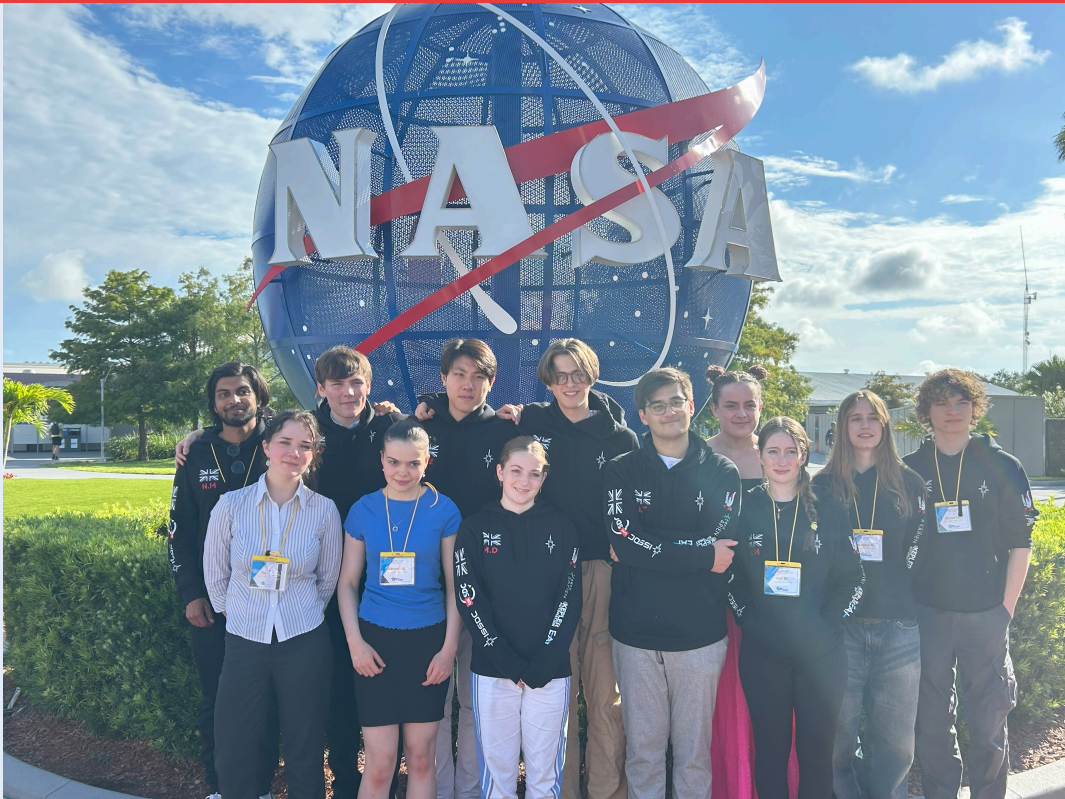
Our partnership with United Airlines is not just about flights; it's about a shared vision. Both SSEF and United Airlines are committed to inspiring the next generation of scientists, engineers, and innovators. By providing this invaluable support, United Airlines is helping to remove barriers for our students, allowing them to focus on what they do best—pushing the boundaries of space science and engineering.

We are particularly excited about having United Airlines involved in our upcoming events. Their presence will undoubtedly enhance the experience for our students, offering them unique insights into the aerospace industry and the chance to engage with industry professionals.

We look forward to a fruitful collaboration with United Airlines and are confident that this partnership will bring incredible benefits to our students and the broader space science community. Together, we are paving the way for the future of space exploration.

For the News Release direct from United Airlines [CLICK HERE](#)

News from the ISSDC



Team UK Triumphs at NASA

Congratulations to the [UKSDC](#) team who travelled to Kennedy Space Center at the end of July to participate in the International Space Settlement Design Competition (ISSDC).

NEWS FROM THE SSE²F

REGISTRATION FOR 2024-25 REGIONALS NOW OPEN

START GETTING A TEAM TOGETHER FOR THE UKSDC REGIONALS FOR 2024-25

DATES FOR SPECIFIC REGIONALS WILL BE ANNOUNCED SOON, SO KEEP AN EYE OUT FOR MORE INFORMATION.



REGISTER HERE!



SSEF Plans another Successful Year for UKSDC, EDC and Volunteers.

SSEF is looking forward to an exciting new season with more UKSDC events, EDC events and development of our wonderful corps of volunteers. We're looking forward to seeing designs that your teams create in the coming regionals. Open to UK students in Years 10 to 13, even if you have attended before.

The regional events for 2024-25 are open for registration. [CLICK HERE](#) to go to our dates and registration page.

EUSDC registration for 2024 - 2025 now open

The EUSDC 2024 regional events are open for registration.

[CLICK HERE](#) to go to our dates and registration page to express your interest in attending an upcoming event.

EUSDC REGIONALS FOR 2024/25

- ✓ ITSDC
- ✓ ROSDC
- ✓ SPSDC
- ✓ PTSDC



DIGITAL COMPETITIONS



FIND OUT MORE



Shoreham academy tells us about being the host of a Regional event.

In June we had the pleasure of hosting a phenomenal Galactic Challenge at Shoreham Academy, joined by students from PACA, Seahaven Academy, and Cardinal Newman Catholic School. Our talented Year 8 students formed three companies and were tasked with designing AXelerate, a Low Earth Orbit technology development settlement specialising in satellite communications and artificial intelligence.

For the whole article [CLICK HERE](#)

TOP TIP:

TOP TIP-

Creating Skeleton Slides

Communications team can create Skeleton slides immediately and share them to the whole team (to be fleshed out by the other departments).

Skeleton slides are a management-of-work tool, helping a large team to coordinate efforts to produce joined-up slides, showing designs serving the RfP.

The Business & Marketing team should start work on the 'bare bones' of the slide template (hence 'skeleton slides') immediately.

WHAT CAN GO ONTO SKELETON SLIDES BEFORE DESIGNS ARE AGREED? Slidemakers can create the full set of skeleton slides, each populated with company logo, big slide numbers, slot for authorship. On each slide, the slidemakers can use the RfP as a guide, "to make suggestions like 'show detailed sketch of (RfP 2.3 item) here' or 'indicate ideas about (RfP point 4.3 and 5.5) in a shared table here'.

Slidemakers can predict a need for a systems diagram, flowchart, Gantt chart etc. Slidemakers can create templates for CAPTIONS and CITATIONS for visuals.

Skeleton Slides

Skeleton slides (outline slides allocating connected RfP points onto shared slide, helping the President, VPs and designers to see the liaisonwork needed). A skeleton slide shows what needs to be 'fleshed out' with proper designs and which bits need to connect.

HOW TO MAKE SKELETON SLIDES? The RfP tells the Business & Marketing team (slidemakers) what the CLIENT asks to see on the slides. After the RfP has been read carefully by slidemakers and by VPs, they can identify likely headings and subheadings that would align to the RfP points. Skeleton slides thus help VPs to refine allocation of related tasks across departments.

Skeleton slides are a management-of-work tool, helping a large team to coordinate efforts to produce joined-up slides, showing designs serving the RfP.

Skeleton slides enable the departments to 'see, share, shape' the designs, faster.

Team Africa

Jagger Cooper from Team Africa

The International Space Settlement Design Competition (ISSDC), is an interdisciplinary engineering simulation challenge where students work in a company of over 50 people to design, cost and pitch to a panel of judges a settlement that meets the requirements of a request for proposal given 36 hours prior. I joined the 2024 competition as a part of Team Africa, and we were placed within the company "Grumbo Aerospace", a combination of teams from the UK, India, Pakistan and Europe. At 62 'employees' total, teamwork, communication and leadership skills were necessary on top of the engineering and design skills already required. Our settlement named 'Balderol', the 'ol' denoting 'on-lunar' and 'Balder' referencing the Norse god, son of Odin, said to be brave and invulnerable. Like Balder, our settlement was designed to be invulnerable to the harsh lunar environment and was located in the Peary crater, a potential area of interest for future NASA missions. This was an experience of a lifetime and I am incredibly grateful to have been selected to compete.



Above photo- The Grumbo Aerospace Operations Department

A meeting of the Grumbo Aerospace Operational Engineering department at ISSDC 2024. I led the team's selection of the settlement location within the Peary crater and communicated with the structural department about necessary requirements for the settlement.

If I am so fortunate to get to compete again in 2025 I will endeavour to win!

STUDENT STORIES

Student name: Molly Dathan

We asked student Molly Dathan some questions about her experiences of taking part in the UKSSDC.

Molly tells us what she was expecting before her first competition, right up to her competing in the international finals, and the friends she has met along the way.

To read about her journey, [CLICK HERE](#)



If you want your experiences to be featured in our Newsletter, then let us know by contacting us at b.mann@ssef.org.uk

IN MEMORIAM

SSEF Mourns the Passing of ISSDC CEO Anita Gale

In May, SSEF were saddened to hear of the passing of Anita Gale, co-founder of ISSDC.

Anita spent her career not only as a Space Engineer but inspiring young people around the world to pursue careers in science and space. She especially helped thousands of young girls discover their potential in technical fields. Anita will be greatly missed and her legacy of the ISSDC will continue to have a lasting impact on young people for years to come.

To read about her life, please [click here](#)



VOLUNTEERING

Gain work experience, have fun, and support the Space Science and Engineering Foundation, (SSEF), by becoming a volunteer. Our volunteers help with both our senior and junior Space and Environmental challenges. Modes are online or in person, weekends or in the summer.

Volunteers are essential to the SSEF to enable us to run our free-to-enter events in the UK and EU .

[CLICK HERE](#) to read more about the benefits of volunteering, the modes of volunteering, what you do/do not do as a volunteer, and how you can have impact, fun and learn.

NEWS

We look at the latest space and environmental news from around the world.



Inside Science

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Space News

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UN Environmental news

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#SPACE & #ENVIRO ON SOCIAL



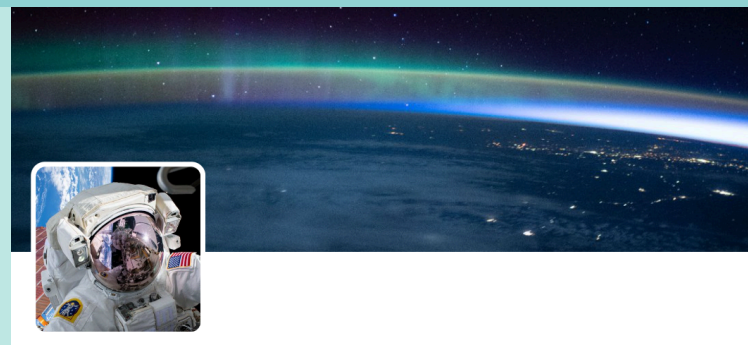
If you're interested in learning more about space then there is so much information out there on social media. Below is a selection of some recent #space tweets and videos. Why not follow some of the sites to keep up to date with all the latest news?



@Spacegovuk

We inspire and lead the UK in space to benefit our planet and it's people.

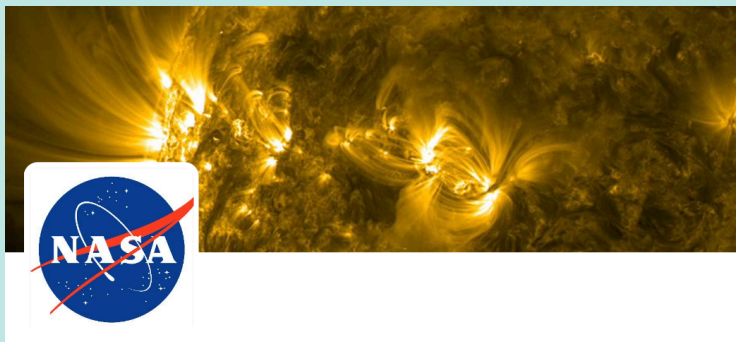
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@Space_Station

NASA's page for the latest updates from the International Space Station.

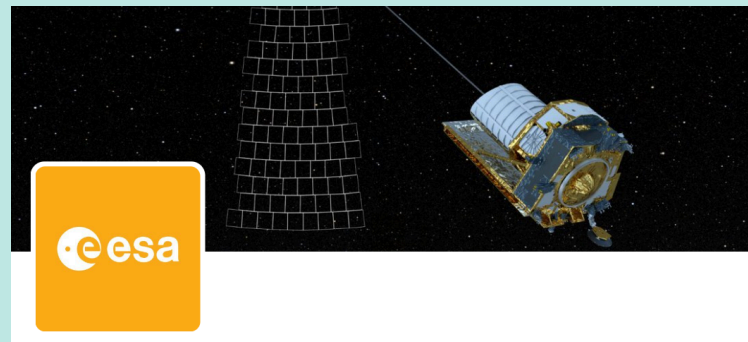
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@NASA

There's space for everybody. ✨

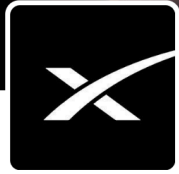
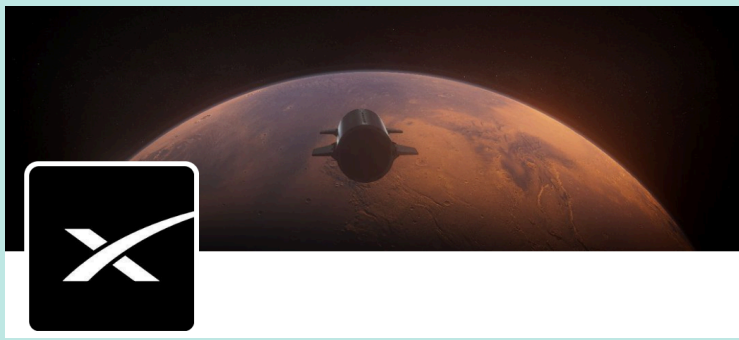
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It's our job to look after your environment and create better places for people and wildlife.

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@UNEP

Official account of @UN Environment Programme. Updates on triple planetary crisis.

[Click Here](#)

WANT MORE INFORMATION?

If your school would like more information on any of SSEF's programmes, please contact Jenny Lyons at j.lyons@ssef.org.uk or Sam Hession at s.hession@ssef.org.uk

Other ways to get involved with the SSEF

[Become a Sponsor](#)

[Volunteer](#)

SPONSORS AND SUPPORTERS

Students will never forget the people they meet, the friends they make, or the supporters who help them. Backing the SSEF is not a one-way street. Sponsorship is as advantageous for you and your future as for the young designers and explorers of tomorrow.





Thanks for reading.
Have you benefitted from taking part in SSEF events?
If so, please consider a [donation to SSEF](#).

Space Science & Engineering Foundation

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