

Space Debris, 2020 Vision?

Speakers

Professor Quintin McKellar CBE, Vice-Chancellor and Chief Executive of the University of Hertfordshire.

Martin Coleman, Advisory Board, Satcoms Innovation Group (SIG). Martin regularly addresses the industry on the management of Spectrum and Space, including Radio Frequency Interference (RFI), at global industry events and facilitates SIG workshops throughout the year.

Dr. Moriba Jah, University of Texas at Austin Cockrell School of Engineering Aerospace Engineering and Engineering Mechanics Department. Dr. Moriba Jah has served there since 2017. His research interests are in non-gravitational astrodynamics and advanced/non-linear multi-sensor/object tracking, prediction, and information fusion. His expertise is in space object detection, tracking, identification, and characterisation, as well as spacecraft navigation.

Jonas Radtke, OKAPI:Orbits OKAPI:Orbits is an innovative startup dedicated to enabling safe and secure satellite operations through Collision Avoidance Software for satellites.

Harriet Brettle, Head of Business Analysis at Astroscale is working to develop commercial solutions to the threat of space debris. She is a co-founder of the London Space Network and co-chair of the Space Generation Advisory Council (SGAC).

Valentin Eder, founded Space Analyses in Vienna in 2014, aiming to bring the know-how of satellite communication and Earth observation together in one structure. Since 2018 the activities have evolved to space debris data.

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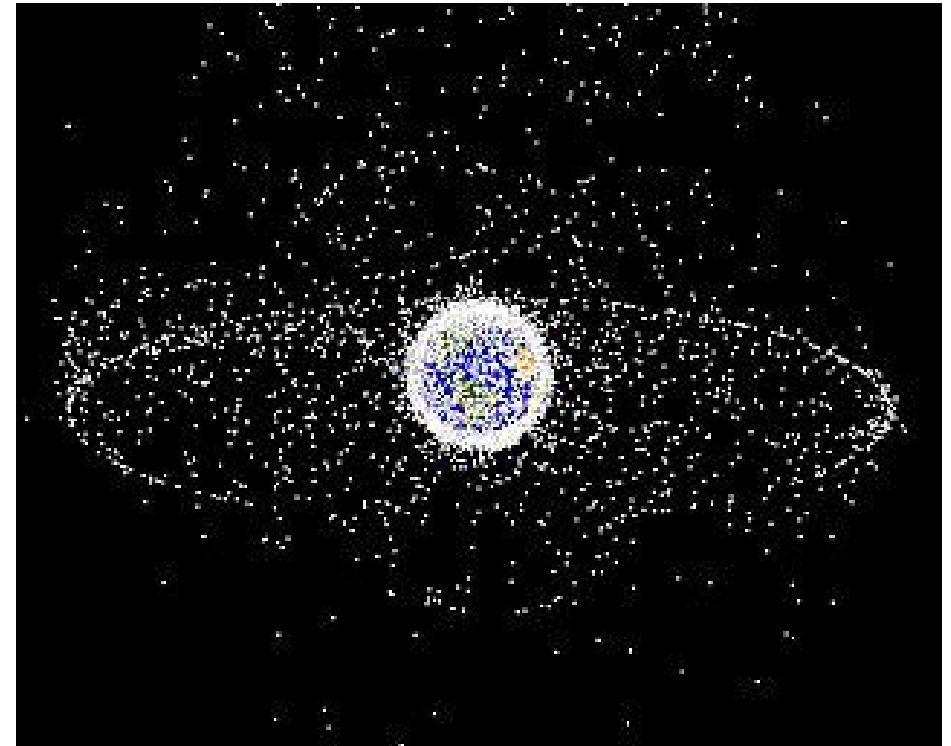


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Space Debris, 2020 Vision? Causes, Consequences, Solutions



EMSTA's 21st Prestige Seminar - Online

Wednesday 18th November, 14:45 to 17:30

Registration opens 14:15

Book at: <http://emsta.org.uk/wp/seminarregistration>

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EMSTA Prestige Seminar 2020 - Online

Synopsis

We know that more than 100,000,000 bits of junk, ranging from flakes of paint to 4+ tonne satellite & launch parts drifting out of control, are up there travelling at 17,500 mph in a band of altitudes between 200 to 22,300 miles above our planet. All accumulated since the 1950s! More satellites are planned in low & medium earth orbit! Comparing space debris to Blue Planet's "plastic in our oceans" the picture is very clear! **So, how do we solve it?**

The Seminar is organised in two main sessions, Presentations by keynote speakers, and an Open Forum, Audience Q&A. There will be a short break between the main sessions for announcements and awards.

After the Welcome from Professor Quintin McKellar CBE, University of Hertfordshire, Martin Coleman, Seminar Chairman, will introduce the Session and Speakers.

In his eye-opening talk, **Setting the Space Debris Scene**, Moriba Jah draws attention to the overcrowding of orbital space and suggests that international legislation is need prevent the traffic jam from reaching critical mass.

Jonas Radtke, will talk about **Space Situational Awareness (SSA)**, ie how we monitor objects in space and use AI & Deep Learning to predict and speed up reporting incidents, as well as the effects of any recent collisions.

Harriet Brettle will be **Addressing the Challenge of Space Debris**, and finally Valentin Eder will discuss whether **To Fix or not To Fix?** or even whether it now may be too late.

An important element of the prestige seminar is the chaired discussion when the audience can put forward their questions to the speakers and debate some of the issues discussed.

This seminar will be the 21st annual prestige seminar organised by EMSTA CIC as a joint event with the Satcoms Innovation Group and various professional engineering and science Institutions.

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Programme

14:15 Registration Opens

14:45 Welcome: Professor Quintin McKellar CBE, UoH

14:50 Session Introduction:

Chair: Martin Coleman

15:00 Speakers: (Subject Experts)

Setting the Space Debris Scene

Dr. Moriba Jah, University of Texas...

Space Situational Awareness (SSA)

Jonas Radtke, OKAPI:Orbits

Addressing the Challenge of Space Debris

Harriet Brettle, Astroscale

To Fix or not To Fix?

Valentin Eder, Space Analyses...

16:00 Awards & Announcements: Live

16:15 Open Forum: Audience Q&A

17:15 Closing Remarks: Chair

17:25 Vote of Thanks: Roger Boddy – EMSTA Chair

CPD: This event can contribute two hours to your continuing professional development (CPD) as part of your institution's CPD monitoring scheme.