



14th IAASS Conference

International Association for the Advancement of Space Safety

**CONFERENCE
PROGRAM**

***TOGETHER
FOR A SAFE
SPACE FRONTIER***

***20-22 OCTOBER 2026
ANTIBES (FRANCE)***

<https://iaassconference2026.org>

DRAFT 16-07-2026

**14TH IAASS CONFERENCE –TOGETHER FOR A SAFE SPACE FRONTIER****Tuesday, 20 October 2026****8:30am - 10:30am****P1: Plenary Session 1****Chair:** Russ DeLoach**Co-Chair:** Bernard Chemoul**General Info & Introduction of Speakers**

Paul Kirkpatrick

*Conference Organizing Committee***IAASS Welcome Address**

Paul Wilde

*IAASS President***Welcome Address****Benoit Hancart (TBC)***Pole de Competitivite SAFE Chairman***Keynote Speakers:****Lionel Suchet***CNES Director General***Rodolphe Munoz***European Commission**Head Sector Secure Connectivity & Space Surveillance***Nathan Vassberg***NASA Chief of Safety and Mission Assurance (Acting)***Shinichi Suzuki***JAXA Associate Director General***Herve Gilibert***ArianeGroup Chief Technical Officer***10:30am - 11:00am***Coffee Break***11:00am - 12:30pm****S-01: Re-entry Safety I****Chair:** Toru Yoshihara**Co-Chair:** Carmen Pardini**ID: 183**

Oral presentation

*Topics: Re-entry safety***Development of Reasonably Conservative Evaluation Guidelines Based on a Comparison of Single-Layer and Multi-Layer Models in Re-entry Survivability Analysis Tool****Tsutomu Matsumoto, Keiichiro Fujimoto, Kazuko Hagiwara, Shinjiro Tsuji, Kumi Nitta, Toru Yoshihara**
Japan Aerospace Exploration Agency, Japan**ID: 158**

Oral presentation

*Topics: Re-entry safety***BFS « Back From Space », an atmospheric reentry kit for Newspace applications****Stephane Heinrich**

eNOVA Aerospace, France

ID: 185

Oral presentation

*Topics: Re-entry safety***Validation Process Development for High-Fidelity Re-entry Safety Analysis Tool LS-DARC**



Keiichiro Fujimoto, Tsuji Shinjiro, Masatoshi Kodera, Shuto Yatsuyanagi, Takanobu Kamiya
Japan Aerospace Exploration Agency, Japan

ID: 239

Oral presentation

Topics: Re-entry safety

Spacecraft Reentries: Extending the Notion of Casualty Area to Air Traffic

Kristen Lagadec¹, Martin Weihreter², Mathias Marinoni¹

¹Airbus Defence & Space, Toulouse; ²Airbus Defence & Space, Friedrichshafen

11:00am - 12:30pm

S-02: Human Spaceflight Safety I

Chair: Michael Kezirian

Co-Chair: Rita Carpentiero

ID: 160

Oral presentation

Topics: Human spaceflight safety

Crew Survival Analysis: Standardizing Residual Risk

Kevin Tones, Erin Coscia, Marlei Walton

NASA/JSC, United States of America

ID: 195

Oral presentation

Topics: Human spaceflight safety

Safety Implications of Autonomous AI Assistants in Deep Space Exploration

Gaspard Thieulin¹, Mathéo Perrochaud¹, Julien Besson¹, Ugo Bonnet¹, Stéphanie Lizy-Destrez²

¹Spaceflight Institute, France; ²ISAE-SUPAERO, France

ID: 216

Oral presentation

Topics: Human spaceflight safety

Safety Architecture for Human-Centric Lunar Surface Operations: Mobility, EVA Contingency Support, Utilities, and Risk Assurance

Patrick Suen

eurus.space, United States of America

ID: 181

Oral presentation

Topics: Space Search and Rescue

Toward Resilient Emergency Communications for Lunar Operations: Planning a LEO Demonstration

Mark Rice^{1,2}, Anna Ma-Wyatt², Khoa Nguyen², Saeed Rehman³, Feng Rice¹, Kelly Yeoh⁴

¹Safety from Space, Australia; ²Adelaide University; ³Flinders University; ⁴Blue Dwarf

11:00am - 12:30pm

S-03: Space Debris Mitigation & Remediation I

Chair: Christophe Bonnal

Co-Chair: Jonathan McDowell

ID: 246

Oral presentation

Topics: Space debris mitigation & remediation

Uncertainty-Aware Guidance and Collision Risk Assessment for Spacecraft Formation Reconfiguration using Physics-Informed Neural Networks

Amanda Roman Navarro¹, Erwin Mooij¹, Daniel Piepenbrink²

¹TU Delft, Netherlands; ²OHB, Germany

ID: 186

Oral presentation

Topics: Space debris mitigation & remediation

Assessing the Observability of LEO Reentry Impacts on Night Sky Brightness



Aditya Rao¹, Divya Rao²

ID: 238

Oral presentation

Topics: Space debris mitigation & remediation

Validation of an Aviation Risk Assessment Method for Space Object Uncontrolled Re-entries

Paula Peña¹, **Gabriel Sebastián**¹, **Óscar González**¹, **Santiago Martínez**¹, **Silvia Sanvido**², **Jan Siminski**², **Cristina Pérez**³, **Katia Cáceres**³

¹GMV Aerospace & Defence SAU, Spain; ²European Space Agency, ESOC, Germany; ³Agencia Espacial Española, Spain

ID: 196

Oral presentation

Topics: Space debris mitigation & remediation

Debris Mitigation Status for Rocket Upper Stage in Japan

Masatoshi Kodera, **Takanobu Kamiya**, **Keiichiro Fujimoto**, **Shinjiro Tsuji**

Japan Aerospace Exploration Agency, Japan

11:00am - 12:30pm

S-04: Panel Session:

Space Traffic Management: From Situational Awareness to Verifiable Safety

Chair: Mark Skinner

Co-Chair: Rodolphe Munoz



12:30pm - 2:00pm	Lunch Break
2:00pm - 3:30pm	S-05: Safety Risk Management I Chair: Russ DeLoach Co-Chair: Zheng Liu

ID: 112

Oral presentation

Topics: Safety risk management

Space Industry Pressure Testing Safety Standards**Matt Edel**

BakerRisk, United States of America

ID: 128

Oral presentation

Topics: Safety risk management

From Reactive to Resilient: NASA's Supply Chain Visibility Initiative—A Proactive Framework for Strengthening the International Space Ecosystem**Valle Kauniste**

NASA, United States of America

ID: 219

Oral presentation

Topics: Safety risk management

Implementing Agile Mission Assurance: Balancing Class A–D Risk Tailoring with Global "Do No Harm" Compliance**Rocky Khullar**

The Aerospace Corporation, United States of America

ID: 124

Oral presentation

Topics: Organizational safety culture

Background and Framework Leading to the Development of the S&MA Standard Procedures Handbook for spacecraft systems**Takehiro Miyakawa, Masato Uesugi**

JAXA, Japan

2:00pm - 3:30pm	S-06: Launch Safety I Chair: Nathalie Dias Co-Chair: Ronen Ingbir
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ID: 136

Oral presentation

Topics: Launch safety

Risk Assessment of the Distant Focusing Overpressure (DFO) Phenomenon for an Orbital Rocket Launch**Matthes Müller, Philipp Schoch, Paolo Aime**

Isar Aerospace SE, Germany

ID: 145

Oral presentation

Topics: Launch safety

Impact of Debris Catalogue Fidelity on Public Risk Metrics Using the ASTRA Software Tool**Liam Ewen¹, Pavel Vleck¹, Dylan Wise¹, Andrew Hutchinson¹, Lewis McCluskey²**¹Praxis Aerospace, Australia; ²National Space Safety Office, Australian Space Agency**ID: 201**

Oral presentation

Topics: Launch safety

Weather-Based Launch Commit Criteria and Availability at Andøya Spaceport**Jan Hoogland, Øyvind Borthne, Piritta Varis, Mathilde Carbonnel, Kyle Lambert**

Andøya Spaceport, Norway



ID: 102

Oral presentation

Topics: Launch safety

Data-Driven Post-Mission Analysis for Sustainable and Resilient Space Operations

Jens Hampe

German Aerospace Center DLR e.V., Germany

ID: 190

Oral presentation

Topics: Launch safety

Fast, High-Fidelity Flight Safety Analysis for a High-Cadence Launch and Re-entry Market

Federico Toso

Indra Space, Italy

2:00pm - 3:30pm

S-07: Space Debris Mitigation & Remediation II

Chair: Jonathan McDowell

Co-Chair: Cristophe Bonnal

ID: 249

Oral presentation

Topics: Space debris mitigation & remediation

Overview of Ariane 6 first flights safety feedback

Nathalie Dias

ArianeGroup, France

ID: 194

Oral presentation

Topics: Space debris mitigation & remediation

The Appropriate Use Of Statistical Collision Models On Simulations Of The Orbital Debris Environment

Samuel Diserens¹, Hugh G. Lewis²

¹UK Civil Aviation Authority, United Kingdom; ²University of Birmingham

ID: 110

Oral presentation

Topics: Space debris mitigation & remediation

Distribution of GEO Ejecta Clouds and Secondary Collision Risk Assessment Using a Probabilistic Density Model

Ryusuke Harada¹, Ryuji Nakawatase¹, Satomi Kawamoto², Toshiya Hanada³

¹Japan Aerospace Exploration Agency, Japan; ²Institute of Science Tokyo, Japan; ³Kyushu University, Japan

ID: 140

Oral presentation

Topics: Space debris mitigation & remediation

Debris Mitigation Standard Support Tools (DEMIST): A Practical Tool for Debris Mitigation Compliance Assessment in Japan

Ibuki Iwasaki¹, Kenichi Sato¹, Kazuko Hagiwara¹, Toru Yoshihara¹, Toshiya Hanada²

¹Japan Aerospace Exploration Agency; ²Kyushu University, Japan

2:00pm - 3:30pm

S-08: Space safety governance, regulations and standards I

Chair: Andrea Jean Harrington

Co-Chair: Sven Kaltenhauser

ID: 235

Oral presentation

Topics: Space safety governance, regulations and standards

Evolution of the Australian Civil Space Regulatory Framework and Recent Experience



Alexandra Wickham, Adam Clash
Australian Space Agency, Australia

ID: 143

Oral presentation

Topics: Space safety governance, regulations and standards

The Rationale for An International Consensus Standard to Protect Aircraft During Launch and Reentry Operations

Paul David Wilde

Federal Aviation Administration, United States of America

ID: 187

Oral presentation

Topics: Space safety governance, regulations and standards

Developing a Common Framework for Space Applications

Shena Howell, Shaun Wilson, James Lee, Kristen Coles, Sam Randell

Shoal Group, Australia

ID: 199

Oral presentation

Topics: Human spaceflight safety

"Well, Now You Want to Become a Human Spaceflight Agency"

Tommaso Sgobba, Russ DeLoach

IAASS, Netherlands, The

3:30pm - 4:00pm

Coffee Break



4:00pm - 6:00pm

S-09: Space safety governance, regulations and standards II

Chair: Sanat Kaul

Co-Chair: Mark Glissman

ID: 105

Oral presentation

Topics: Space safety governance, regulations and standards

Mega Constellations & Space Sustainability: Exploring Space Governance Options

Kiran Krishnan Nair

ICAO/UN, Canada

ID: 111

Oral presentation

Topics: Space safety governance, regulations and standards

Recommendations for International Regulatory Regimes Governing Commercial Space

Margaret O'Brien, Trevor Simoneau

Embry-Riddle Aeronautical University, United States of America

ID: 163

Oral presentation

Topics: Space safety governance, regulations and standards

JAXA application status of Japanese Space Activities Act

Hirohisa ODA

JAXA, Japan

ID: 119

Oral presentation

Topics: Space safety governance, regulations and standards

Governance Lag as Safety Infrastructure Failure: Signal Detection and Decision Architecture in Commercial Space Operations

Theresa Quitto-Dickerson

Independent Practitioner-Scholar, United States of America

ID: 135

Oral presentation

Topics: Space safety governance, regulations and standards

Safer Space Frontier: Emerging Threats and the Limits of International Space Law

Nebile Pelin Manti

PIL Dept IU Faculty of Law, Türkiye

4:00pm - 6:00pm

S-10: Launch Safety II

Chair: Isabelle Rongier

Co-Chair: Tobias Rabus

ID: 130

Oral presentation

Topics: Launch safety

Estimation of Impact Probability through KDE for Asymmetrical Distributions of Debris

Paolo Aime, Matthes Müller

Isar Aerospace SE, Germany

ID: 161

Oral presentation

Topics: Launch safety

Bounding Internal LOX/LNG Mixing Scenarios for TNT Yield Equivalency Determination on New Glenn

Emily Klonicki-Ference, Timothy Monk, Darren Grove, Andre Weil

Blue Origin, United States of America

ID: 131

Oral presentation

Topics: Launch safety

TNT Yield Estimates for Cryogenic Propane-Oxygen Mixtures



Paolo Aime¹, Matthes Müller¹, Vincent Bertrand-Noel²

¹Isar Aerospace SE, Germany; ²former Isar Aerospace SE, Germany

ID: 157

Oral presentation

Topics: Launch safety

Probabilistic Reliability Modeling Of Low Cycle Fatigue Crack Growth For Space Components

Gistin Thomas Kuthukallumkal¹, Giuliano Acampa¹, Federico Pasciuti¹, Marco Cinque¹, Alessandro Scolaro¹

Avio S.p.A., Italy

ID: 141

Oral presentation

Topics: Launch safety

Uncertainty Quantification of Weibull-Based Reliability Predictions for Improving Early-Stage Design of Cryogenic Propulsion Systems Components

Simone Mangano¹, Gianpietro Di Rito¹, Giuliano Acampa², Federico Pasciuti², Luca Troisi³

¹Università di Pisa, Italy; ²Avio SpA, Colleferro, Italy; ³European Space Agency (ESA), Paris, France

ID: 144

Oral presentation

Topics: Launch safety

A Comparative Evaluation of Grid-Based and Trajectory-Based Expected Casualty Calculation Methods for Aircraft Risk Assessment of Orbital Launch Operations

Pavel Vlack¹, Liam Ewen¹, Dylan Wise¹, Andrew Hutchinson¹, Lewis McCluskey²

¹Praxis Aerospace, Australia; ²National Space Safety Office, Australian Space Agency

4:00pm - 6:00pm

S-11: Human Performance

Chair: Cynthia Null

Co-Chair: Nikolay Osetskiy

ID: 224

Oral presentation

Topics: Human performance and health in space

AI Tools in Support of Commercial Space Transportation Medical Safety

Melchor Antunano

Center for Aerospace and Extreme Environments Medicine, College of Medicine, University of Central Florida, United States of America

ID: 204

Oral presentation

Topics: Human performance and health in space

Medical and Psychological Training for Analogue Spaceflight Missions

Ambre Bexter¹, Matthew Acevski², Sungyoon Hong³, Vivien Simon⁴, Michelle Pahud⁵, Arsham Karapetyan⁶

¹Imperial College London, Department of Microbiology; ²Imperial College London, Department of Physics; ³University of Bristol, Department of Aeronautics; ⁴Semmelweis University, Faculty of Medicine; ⁵University of Lausanne, Institute of Psychology; ⁶Embry-Riddle Aeronautics University, Department of Human Factors and Behavioral Neurobiology

ID: 106

Oral presentation

Topics: Human performance and health in space

Volumetric Absorptive Microsampling During Spaceflight for Analysis of Acetaminophen Pharmacokinetics in Whole Blood

David Mampre^{1,2}, Robert Guttendorf^{1,3}, Jennifer Zimmer^{1,5}, Brooke Whitson^{1,5}, James Huggins^{1,5}, Chad Christianson^{1,5}, Erik Burns^{1,5}, Nicolas Heft^{1,4}, Marissa Rosenberg^{1,2}, Amran Asadi^{1,2}, Jaime Mateus², James Rudge^{1,6}, Takako Mizuno^{1,6}, John Donehoo¹

¹Space Team, USA; ²Space Exploration Technologies Corporation, Hawthorne, CA; ³Acclairo Pharmaceutical Development Group, Inc. Sterling, VA; ⁴The University of Texas Health Science Center at Houston, Houston, TX; ⁵Alturas Analytics, Inc. Moscow, ID; ⁶Trajan Scientific and Medical, Ringwood, Australia

ID: 108

Oral presentation

Topics: Human performance and health in space

Group Dynamics as a Safety Determinant in Long-Duration Human Spaceflight

James Kass

James R Kass Space Consulting, Netherlands



ID: 244

Oral presentation

Topics: Human performance and health in space

Mars Transit Bone Density Exercise Countermeasure System Design Concept

Kory Menke

University of Houston, United States of America

4:00pm - 6:00pm

S-12: Panel Session:

International Space Governance: The Case for a Unified Regulatory Framework

Chair: Bernard Chemoul

Co-Chair: Mark Glissman

Wednesday, 21 October 2026

8:00am - 10:00am

S-13: Human spaceflight safety II

Chair: Fabrizio Festa

Co-Chair: Ramona Gaza

ID: 225

Oral presentation

Topics: Human spaceflight safety

Artemis II: Product Assurance and Safety Aspects

Raffaele Campagnuolo, Marco Chiaradia, Martin Born, Enrico Parisio, Guillaume Schang

ESA - European Space Agency, Netherlands, The

ID: 234

Oral presentation

Topics: Human spaceflight safety

A Preliminary Analysis of Post Abort Trajectory and Landing Zones for the Safety of Crewed Capsules Under Launch Conditions from Japan

Cody Clements¹, Norio Ebisu¹, Nobuo Sugimura¹, Kazuhisa Fujita¹, Yuki Tomita², Keiichiro Fujimoto², Yoshitsugu Suzuki², Takashi Uchiyama², Toshinori Kuwahara³, Takumi Saito³

¹ElevationSpace, Japan; ²Japan Aerospace Exploration Agency; ³Tohoku University

ID: 215

Oral presentation

Topics: Human spaceflight safety

Orion Program Ground Processing Leadership and Risk Decision-Making Strategy for Artemis II

Paul Collier

NASA Johnson Space Center, United States of America

ID: 209

Oral presentation

Topics: Human spaceflight safety

Vehicle Fire during Exploration Missions: Standardization of Crew Survival Residual Risk

Erin Coscia, Kevin Tones, Marlei Walton

NASA, United States of America

ID: 138

Oral presentation

Topics: Human spaceflight safety

Artemis-2 In-Flight Anomaly Resolution Tool Development, Utilization and Observations for Future Missions

Darcy DeAngelis¹, Carrie Green¹, Klara Carbone¹, Ellyssa Purdy², Sophie Diccox³, Brandon Rodriguez⁴

¹NASA Glenn Research Center, United States of America; ²University of Minnesota, United States of America;

³Virginia Polytechnic Institute and State University, United States of America; ⁴Texas A&M University, United States of America

8:00am - 10:00am

S-14: Safety Risk Management II

Chair: Harmony Myers

Co-Chair: Paul David Wilde



ID: 142

Oral presentation

Topics: Safety risk management

Supply Chain Confidence Through Structured Assurance: Integrating Quality Assurance Cases Into Safety Risk Management

Robert Lange, Jr.

NASA, Kennedy Space Center, Florida, U.S.A.

ID: 228

Oral presentation

Topics: Safety risk management

Vulnerability of Ground Vehicles to Inert Debris

Ryan Schnalzer¹, Erik Larson²

¹Arctos Technology Solutions, United States of America; ²Federal Aviation Administration, United States of America

ID: 198

Oral presentation

Topics: Safety risk management

Safety First At A Rapid Developing Spaceport In The Remote Arctics

Thomas Melkeraen, Lukas Adam Kruk, Gina Granum

Andøya Space, Norway

ID: 188

Oral presentation

Topics: Safety risk management

An Integrated PRA–PML Method for Business Risk Assessment of Cargo Resupply Missions to Commercial Space Stations

Naoki Okamoto¹, Ryosuke Kajiwara¹, Shohei Kawahara², Masami Miki², Kenji Aoshima³, Kota Kobayashi⁴, Nobuhiro Yoshii⁴, Takashi Uchiyama¹

¹Japan Aerospace Exploration Agency, Japan; ²Japan Manned Space Systems Corporation; ³Tokio Marine & Nichido Fire Insurance Co., Ltd.; ⁴Tokio Marine dR Co., Ltd.

ID: 192

Oral presentation

Topics: Organizational safety culture

Improvement Activities in Range Safety Management Operations at the JAXA Kagoshima Space Center

Kei Nishida, Hiroaki Sakai

Japan Aerospace Exploration Agency, Japan

ID: 129

Oral presentation

Topics: Organizational safety culture

Operationalizing Proactive Safety Culture: Strategic Prevention Capability as an Organizational Mechanism for Space Sector SMEs

Michał Szwajewski¹, Katarzyna Malinowska², Alicja Stepaniuk-Szwajewska¹, Bartosz Malinowski¹

¹Space Entrepreneurship Institute, Poland; ²Kozminski University, Poland



8:00am -
10:00am

S-15: Space safety governance, regulations and standards III

Chair: Liu Hao

Co-Chair: Douglas Ligor

ID: 171

Oral presentation

Topics: Space safety governance, regulations and standards

OceanGate Titan And The Boundary Between Public Protection And Informed Consent: A Case Study For The Space Sector

Quentin Guého¹, Michael Kezirian²

¹Université Paris-Saclay, France; ²University of Southern California

ID: 180

Oral presentation

Topics: Space safety governance, regulations and standards

Standards Roadmapping for Mission Assurance

Frances Heinlein

The Aerospace Corporation, United States of America

ID: 240

Oral presentation

Topics: Space safety governance, regulations and standards

Space Debris Credits: A Market-Based Framework For Governance And Environmental Stewardship In Orbit

Maxime Kadri

Celestia Dynamics, France

ID: 241

Oral presentation

Topics: Space safety governance, regulations and standards

The World Space Agency: Toward Federated Governance of the Orbital, Lunar, and Martian Commons

Maxime Kadri

Celestia Dynamics, France

ID: 117

Oral presentation

Topics: Space safety governance, regulations and standards

Efficiency Options for Federal Aviation Administration Licensed Launches from Federal Ranges in the United States

Timothy Monk, Elyse Procopio

Blue Origin, United States of America

ID: 147

Oral presentation

Topics: Space safety governance, regulations and standards

Are We Waiting For A Catastrophic Event In LEO Before Regulating Space?

Sanat Kaul

IFFAAD, India

8:00am -
10:00am

S-16: Safety of nuclear space systems

Chair: John Matchett

Co-Chair: Nora Bougharouat

ID: 150

Oral presentation

Topics: Safety of nuclear space systems

Design, Development And Qualification Activities For The Americium-Based Radioisotope Power Systems

Alessandra Barco

Perpetual Atomics, United Kingdom

ID: 149

Oral presentation

Topics: Safety of nuclear space systems



Development of European RPS Safety Testing Capabilities

Andrea Cambriani¹, Karin Popa¹, Jeremie Manaud¹, Flavia Digiacoimo¹, Marc Barrachin²

¹European Commission Joint Research Center, Karlsruhe, Germany; ²French Authority for Nuclear Safety and Radiation Protection, ASNR, France

ID: 200

Oral presentation

Topics: Safety of nuclear space systems

ESTE4Space Tool for Nuclear Safety Analyses PRA Level 3.

Ludovit Liptak, Michal Marcisovsky, Maria Marcisovska, Eva Fojcikova, Peter Carny, Monika Krpelanova

ABmerit-nuclear and space, Slovak Republic

ID: 126

Oral presentation

Topics: Safety of nuclear space systems

To What Extent Can Terrestrial Nuclear Regulatory Frameworks be Harmonized with the Outer Space Treaty to Establish a Codified 'Lunar Nuclear Stewardship' Model?

Alicia Hölttä¹, Evandros Theodosiou²

¹Space Generation Advisory Council, Finland; ²Space Generation Advisory Council, United Kingdom

ID: 173

Oral presentation

Topics: Safety of nuclear space systems

Nuclear Power Systems In Space: A Comparative Analysis Of United States And European Union Governance — Liability, Compensation, And Strategic Autonomy

Michaela Stessl

DLA Piper, Slovak Republic

ID: 118

Oral presentation Topics: Safety of nuclear space systems

Governing Lunar Nuclear Power Systems: Filling the Regulatory Gaps for Fission Systems on the Moon

Sanchi Dhamija

Business Contract Advisor, Bombardier Inc.; LLM, Institute of Air and Space Law, McGill University; Research Associate, Alliance for Collaboration in the Exploration of Space (ACES) Worldwide.

10:00am - 10:30am	Coffee Break
10:30am - 12:30pm	S-17: Human Spaceflight Safety III Chair: Richard Chase Co-Chair: Adrian Mora

ID: 179

Oral presentation

Topics: Human spaceflight safety

Establishing Minimum Training Standards for Commercial Human Spaceflight Participants: Approach, Framework, and Progress of the IAASS Training Working Group

Simon Evetts¹, Vladimir Pletser¹, Edward Salas², Chanda Sanders³, Walter Sipes⁴

¹Nautex Global, United Kingdom; ²Rice University, USA; ³FAA, USA; ⁴Axiom Space, USA

ID: 229

Oral presentation

Topics: Human spaceflight safety

A Multi-source Data Fusion-based Safety Assessment Method for Manned Space Systems

Shucheng Gao, Shanshan Zhang, Yizhao Li, Kanglun Liu, Liming Ren, Xiaopeng Li

China Astronautics Standards Institute, China, People's Republic of

Oral presentation

Topics: Human spaceflight safety

Probabilistic Risk Analysis Enhanced With Artificial Intelligence Methods

Emilien Genet

Thales, France



ID: 139

Oral presentation

Topics: Human spaceflight safety

Evolving Mission Assurance in a Commercial World

Michael Graybill¹, **Elizabeth Blome**¹, **Erin Waggoner**²

¹NASA Johnson Space Center, United States of America; ²NASA Armstrong Flight Research Center, United States of America

10:30am -
12:30pm

S-18: Space safety governance, regulations and standards IV

Chair: Taro Kuusiholma

Co-Chair: Giovanni Di Antonio

ID: 203

Oral presentation

Topics: Space safety governance, regulations and standards

The Evolving Role of the ITU in the “Megaconstellation” Era

Audrey Allison

The Aerospace Corporation, United States of America

ID: 220

Oral presentation

Topics: Space safety governance, regulations and standards

The Need For Adequate Safety Margins In Low Earth Orbit Populations

Stuart Eves

SJE Space Ltd, United Kingdom

ID: 223

Oral presentation

Topics: Space safety governance, regulations and standards

Analysis Of Safety Standards And Requirements For Payloads And Ground Operations In Emerging Spaceport Using New Launch Vehicles

Agnese Fiocchi, **Adele Fulco**

Thales Alenia Space, Italy

ID: 182

Oral presentation

Topics: Space safety governance, regulations and standards

Possible Approach to Establish International Rules of Emerging Space Activities - Introduction of Technology-based Approach

Koichi Kikuchi

Japan Aerospace Exploration Agency, Japan

ID: 122

Oral presentation

Topics: Space safety governance, regulations and standards

Supervising the Debris Future: IADC Environmental Reporting and the Legal Governance of Orbital Safety

Daniel Morgan

University of Wolverhampton, United Kingdom

10:30am - 12:30pm

S-19: Launch Safety III

Chair: Paul Wilde

Co-Chair: Tobias Rabus

ID: 167

Oral presentation

Topics: Launch safety

Optimizing Launch Window

Nir Moshe Levy, **Vladislav Komarnitski**, **Alon Eliraz**, **Shai Karolinsky Davidovich**

IAF, Israel

ID: 151

Oral presentation

Topics: Launch safety

**TRSAT Risk Assessment Module**

Ronen Ingbir, Mark (Moty) Harmats, Asaf Schuldenfrei, Leonid Elkind
Rafael, ADS, Israel

ID: 202

Oral presentation

Topics: Launch safety

Safety Criteria for Advanced Integration Concepts of Space Operations in Europe

Tobias Rabus¹, Lorenz Losensky¹, Nicolas Fota², Maria Buzatu², Augustin Udristioiu²

¹German Aerospace Center (DLR), Germany; ²EUROCONTROL

ID: 242

Oral presentation

Topics: Launch safety

Ignition Physics and Yield Limits of LOX/LNG Launch Vehicle Fallback Accidents

Reema Reveles, Mike Bangham

Bangham Engineering, United States of America

ID: 156

Oral presentation

Topics: Launch safety

FAA Efforts to Better Integrate Launch and Reentry Operations into the National Air Space

Paul David Wilde

Federal Aviation Administration, United States of America

ID: 146

Oral presentation

Topics: Launch safety

An Expected Casualty Analysis in Low-Density Airspace Using ASTRA

Pavel Vlcek¹, Liam Ewen¹, Dylan Wise¹, Andrew Hutchinson¹, Lewis McCluskey²

¹Praxis Aerospace, Australia; ²National Space Safety Office, Australian Space Agency

ID: 127

Oral presentation

Topics: Space safety governance, regulations and standards

Modernizing Public Safety Criteria for Commercial Space Transportation

Erik Larson

Federal Aviation Administration, United States of America

10:30am - 12:30pm	S-20: Panel Session: Safety on Long Duration Missions Chair: Nikolay Osetskiy Co-Chair: Melchor Antunano
12:30pm - 2:00pm	<i>Lunch Break</i>
2:00pm - 3:30pm	P2: Plenary Session - Keynote Addresses Chair: Bernard Chemoul Co-Chair: Russ DeLoach Stephane Beaudry <i>Canadian Space Agency (CSA) Executive Director Programs and Integrated Planning</i> Roberto Battiston (TBC) <i>Chair European Space Sciences Committee (ESSC)</i> Mark Glissman <i>United States Air Force Executive Director Space Risk Assessment</i>



|and Mitigation

FAA/AST?

ICAO?

EUSPA?

3:30pm -
4:00pm

Coffee Break

4:00pm -
5:30pm

S-21: Space Traffic Coordination I

Chair: Mark Skinner

Co-Chair: Christophe Bonnal

ID: 217

Oral presentation

Topics: Space debris mitigation & remediation

Collision Avoidance Maneuver Optimization Under Spatial Neighborhood Constraints

Guilherme Marcos Neves, Luis Felipe Alves de Oliveira

Safe on Orbit, Brazil

ID: 184

Oral presentation

Topics: Space weather forecast

Storm-Time Space Weather Forecasting in Low Earth Orbit: Machine Learning Approaches and Implications for Collision Risk

Divya Rao¹, Aditya Rao²

¹Amazon Leo (Project Kuiper), United States of America; ²Carnegie Mellon University, United States of America

ID: 132

Oral presentation

Topics: Safety risk management

Forecasting the Evolution of Satellite Conjunction Event Parameters with Physics-Informed Transformers

Vincent Chirio², Fabio Chiappina^{1,3}, Jeffrey Small⁴, Alinda Mashiku¹

¹NASA Goddard Space Flight Center; ²Argonne National Laboratory; ³a.i. solutions; ⁴Intuitive Machines

4:00pm - 5:30pm	S-22: Panel Session: Space Nuclear Reactors: Launch Approval and State Competence Chair: Amber Armstron-Chang Co-Chair: Sam Harbison
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4:00pm - 5:30pm	S-23: Safety critical software design, security, and IVV Chair: Florian Bittner Co-Chair: Harmony Myers
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ID: 207

Oral presentation

Topics: Safety critical software design, security, and IVV

From Silos to Systems: Integrated Mission Risk Management for Space Cybersecurity, Safety and Resilience

PakHo Chan

HephaX, Australia

ID: 109

Oral presentation

Topics: Safety critical software design, security, and IVV

Reducing Risk in Software Driven Hazards Across NASA Programs Through Cross Program Hazard Insight, Generative AI, Software Assurance, and IV&V

Tim Crumbley

NASA, United States of America

ID: 155

Oral presentation

Topics: Safety critical software design, security, and IVV

Data-Driven Analysis of TID-Induced MOSFET Degradation for Space Applications

Florian Lumpe¹, Stephan Poßberg², Hans- Juergen Sedlmayr³

¹DLR e.V., Germany; ²Hochschule Ruhr West (HRW); ³DLR e.V., Institute of Robotics and Mechatronics

ID: 247

Oral presentation

Topics: Safety critical software design, security, and IVV

The use of Product Service History as Supplementary Element of Certification for Safety Critical Software in EGNOS

Alexandru Adrian Prodan

EUSPA, France

4:00pm – 6:00pm	S-24: Human Spaceflight Safety IV Chair: Paul Kirkpatrick Co-Chair: Shinichi Suzuki
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ID: 165

Oral presentation

Topics: Human spaceflight safety

Resilient System Safety Architecture for Human Spacecraft Based on ARP4754 and DEOS

Takuya Hasegawa¹, Kazuaki Hirakawa¹, Kenichi Amma¹, Seiko Shirasaka², Kohei Tanaka², Fumihito Oura²

¹Innovative Space Carrier Inc., Japan; ²Keio University, Japan

ID: 169

Oral presentation

Topics: Human spaceflight safety

Integrated Anomaly Detection and Emergency Abort Systems for Next-Generation Human Spacecraft

14th IAASS Conference – Program

Kazuaki Hirakawa¹, Takuya Hasegawa¹, Kenichi Amma¹, Tomohiro Ichinose¹, Soichiro Kato¹, Hideki Nomoto²

¹Innovative Space Carrier Co, Inc.; ²Japan Manned Space Systems Corporation

ID: 206

Oral presentation

Topics: Human spaceflight safety

What Endures--Mission Control and the Problem of Reliable Operations Across Technological Change

Steven Hirshorn¹, Marie Bengtsson², Erik Herzog³

¹NASA, United States of America; ²Linköping University, Sweden; ³Saab Aeronautics

ID: 232

Oral presentation

Topics: Human spaceflight safety

Study on an Evaluation Method of Safety for Long-Term On-Orbit Space Vehicles

Kanglun Liu, Yizhao Li, Shucheng Gao, Shanshan Zhang, Liming Ren, Xiaopeng Li

China Astronautics Standards Institute, China

6:00pm - 6:15pm

Buses Depart to Conference and Awards Gala Dinner at Hotel Le Negresco in Nice



Thursday, 22 October 2026

9:00am - 10:30am

S-25: Regulations

Chair: Andrea Jean Harrington

Co-Chair: Bernard Chemoul

ID: 120

Oral presentation

Topics: Space debris mitigation & remediation

French Space Operations Act implementation to develop safe and sustainable In-Orbit Servicing operations

Florent Lacomba, Olfa El Jed, Grégoire Laur, Guilhem Soulier

CNES, France

ID: 227

Oral presentation

Topics: Space debris mitigation & remediation

Impact On Orbital Systems Of The New International Regulations

Christophe Bonnal

Maia Space, France

ID: 222

Oral presentation

Topics: Space safety governance, regulations and standards

Reviewing the Scope and Effectiveness of Current International Legal Obligations for Emergency Assistance, Rescue, and Repatriation of Spacefarers of Private Human Spaceflight

Ricky J. Lee¹, Sarah L. Steele²

¹University of Notre Dame Australia and Nirma University (India); ²University of Essex, Jesus College at University of Cambridge, Bocconi University, and University of Maryland Global Campus

ID: 166

Oral presentation

Topics: Space safety governance, regulations and standards

China, Russia, and Europe in Lunar Exploration: Scientific Cooperation and International Relations

Anna Yuschenko¹, Bernard Foing²

¹Tsinghua University, China, People's Republic of; ²ILEWG LUNEX EuroMoonMars

9:00am - 10:30am

S-26: Safety Risk Management III

Chair: Michael Kezirian

Co-Chair: Zheng Liu

ID: 221

Oral presentation

Topics: Safety risk management

CALLISTO – Getting Ready For Safe Operations In CSG

Coralie Outin

CNES, France

ID: 230

Oral presentation

Topics: Safety risk management

Safety Assurance Strategies for Autonomous Robot-Human Interaction for Space Exploration: Mars Helicopter-Astronaut Collision Avoidance Case Study

Shaun Ryan, Alessandro Pinto

NASA Jet Propulsion Laboratory, California Institute of Technology, 4800 Oak Grove Dr. Pasadena, CA United States

ID: 248

Oral presentation

Topics: Safety risk management

From Orbital History to an Auditable Decision: What Can Be Inferred from Measured Orbital Behavior — and Where Scientific Evidence Ends.

Shimrit Shapir Moisi¹, Yossi Dekel²

ID: 250

Oral presentation

Topics: Safety risk management

Helix Optical Network Contribution to the EU SST Commercial Data Procurement: Operational Results from the ITT1 and ITT2 Surveillance Baselines

Paul Torrente¹, Theo Dorlin², Thibault De La Villegeorges³, Anne-Sophie Magnin⁴

¹ArianeGroup, France; ²ArianeGroup, France; ³ArianeGroup, France; ⁴ArianeGroup, France

9:00am - 10:30am

S-27: Space Safety Governance and Standards V

Chair: Liu Hao

Co-Chair: Taro Kuusiholma

ID: 205

Oral presentation

Topics: Space safety governance, regulations and standards

Comparison of Regulations for Commercial Space Activity

Masako Kikuchi

JAMSS, Japan

ID: 125

Oral presentation

Topics: Space safety governance, regulations and standards

French Space Operations Act rationale and conformity methods for Launch Operations

Michal Kurela, Marine Viaud, Maxence Malherbe, Stéphanie Dargon

CNES, France

ID: 243

Oral presentation

Topics: Space safety governance, regulations and standards

The Need for Global Higher Airspace Operations (HAO) Governance and Strategy Alignment

Taro Kuusiholma

IAASS/Tabear Consulting Ltd., Finland

ID: 191

Oral presentation

Topics: Space safety governance, regulations and standards

Technical Assessment Framework for Orbital Safety and Sustainability Risks under the Space Industry Act 2018

Parth Upadhyay, Samuel Diserens

UK Civil Aviation Authority, United Kingdom

9:00am - 10:30am

S-28: Space Traffic Coordination II

Chair: Tommaso Sgobba

Co-Chair: Mark Skinner

ID: 178

Oral presentation

Topics: Space Traffic Coordination

Differential Drag Efficacy for Close Approach Remediation

Dolan Highsmith¹, James Clark¹, Eliot Toumey²

ID: 172

Oral presentation

Topics: Space Traffic Coordination

A Risk-Informed Predictive GNSS & SST Framework For Cislunar Custody And Distress Support

Gabriele Impresario, Elena Vellutini, Antonio Vricella, Luca Salotti, Mario Musmeci

Agenzia Spaziale Italiana, Italy

ID: 197

Oral presentation

Topics: Space Traffic Coordination

Analytical Comparison of the NASA Spacecraft Conjunction Assessment Handbook and Other Best Practice Documents



Miles Lifson¹, Hunter Morris¹, Lauri Newman²

¹The Aerospace Corporation, United States of America; ²National Aeronautics and Space Administration, United States of America

ID: 218

Oral presentation

Topics: Space Traffic Coordination

Impact of Uncertainty Propagation Methods on TCA Prediction and Collision-Risk Assessment in Space Debris Environments

Erwin Mooij, Emma Pignacca

Delft University of Technology, Netherlands, The

10:30am - 11:00am	Coffee Break
11:00am - 1:00pm	S-29: Launch Safety V Chair: Isabelle Rongier Co-Chair: Ronen Ingbir

ID: 152

Oral presentation

Topics: Launch safety

Risk Reduction Mission Termination Method

Ronen Ingbir, Asaf Schuldenfrei, Leonid Elkind

Rafael, ADS, Israel

ID: 153

Oral presentation

Topics: Launch safety

RSO Role in Modern Times

Ronen Ingbir¹, Nir Levy², Asaf Schuldenfrei¹, Leonid Elkind¹, Alon Binyamin²

¹Rafael, ADS, Israel; ²IAF

ID: 154

Oral presentation

Topics: Launch safety

Space Transport Operations Safety Impact On Air Traffic - Methodology Investigations And Tactical Response Study

Leonard Buchailot¹, Thelma Lestage¹, Laurenz Klein², Romain Rousselet³, Octave Suter³

¹CNES (Centre National d'Etudes Spatiales), Kourou, French Guiana; ²RWTH Aachen University, Aachen, Germany;

³French Air and Space Force Academy, Salon-de-Provence, France

ID: 174

Oral presentation

Topics: Launch safety

An Experimental Study of LOX/LNG and Surrogate Fluid Mixing to Inform Launch Vehicle Accident Environment Models

Shervin Taghavi¹, Elan Borenstein¹, Don Li¹, Felix Liu¹, Noelle Wells¹, Noah Brown¹, Matthew Devost¹, Ilse Reyes², Javier Telles², Dax Rios², Charline Fouchier³

¹NASA/JPL, United States of America; ²NASA/WSTF, United States of America; ³California Institute of Technology, United States of America

ID: 148

Oral presentation

Topics: Launch safety

Optimizations in Safety Regulation for Launch Site Operations of JAXA Kagoshima Space Center

Takafumi Endo, Kenich Sato, Toru Yoshihara, Takeru Yamagami

Safety and Mission Assurance Department, Japan Aerospace Exploration Agency, Tsukuba, Japan

ID: 193

Oral presentation

Topics: Launch safety

Bridging JARUS SORA 2.5 and 14 CFR Part 450 for the Safety Assessment of Cross-Regime Launch and Reentry Operations

Christina Dunker¹, Mike Shanaher²

¹Nova Systems, New Zealand; ²Dawn Aerospace Ltd., New Zealand

11:00am - 1:00pm	S-30: Space Traffic Coordination III Chair: Christophe Bonnal
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Co-Chair: Tobias Rabus

ID: 226

Oral presentation

Topics: Space Traffic Coordination

Operational Experiences of Collision Risk Mitigation for Chandrayaan-2 in Lunar Orbit

Bulbul Mukherjee, Madhav Nakani

Indian Space Research Organisation, India

ID: 208

Oral presentation

Topics: Space Traffic Coordination

Learning-Based Calibration of Drag-Conditioned Covariance for Dependable LEO Conjunction Assessment

Álvaro Piccini Romero, Aleksandr Artemov, Leonidas Askianakis

Project-S Space and Beyond Technologies UG (haftungsbeschränkt)

ID: 189

Oral presentation

Topics: Space Traffic Coordination

A Framework for Space Traffic Coordination: How to Determine Who Gives Way in Orbit.

Maria Antonia Ramos Prada, Diego Escobar Antón, Alfredo Antón

GMV, Spain

ID: 168

Oral presentation

Topics: Space Traffic Coordination

Space Traffic Management: From Situational Awareness to Verifiable Safety

Tommaso Sgobba, David Flinkeman

IAASS, Netherlands, The

11:00am - 1:00pm

S-31: Re-entry Safety II

Chair: Carmen Pardini

Co-Chair: Tobias Lips

ID: 175

Oral presentation

Topics: Re-entry safety

Assessing the Impact of Actual Re-entry Locations on the Global Casualty Risk from Uncontrolled Atmospheric Re-entries

Tobias Lips, Patrik Kärräng, Andreas Breslau

HTG - HypersonicTechnology Göttingen GmbH, Germany

ID: 113

Oral presentation

Topics: Re-entry safety

The Orbital Reentry Ledger

Jonathan McDowell^{1,2}

¹Center for Space Environmentalism; ²Durham University SPARC

ID: 114

Oral presentation

Topics: Re-entry safety

Ground Casualty Risk From Uncontrolled Reentries: Assessment Of Existing Models Using The French Satellite Database

Myrtille Monclin

CNES (Centre National d'Etudes Spatiales), Space Safety Office, Orbital Systems Directorate, 18 av. E. Belin 31400 Toulouse, France

ID: 137

Oral presentation

Topics: Re-entry safety

Uncontrolled Orbital Re-entries: The Evolving Risk to Ground and Airspace

Carmen Pardini¹, Luciano Anselmo²

¹ISTI-CNR, Italy; ²ISTI-CNR, Italy

ID: 210

Oral presentation
Topics: Re-entry safety

Random Reentry Hazard Determination and Communication

Lisa Rosenblum Loucks¹, Michael Kezirian²

¹Ascendant Spaceflight Services, LLC; ²University of Southern California

11:00am - 1:00pm

S-32: Human Spaceflight Safety V

Chair: Ramona Gaza

Co-Chair: Adrian Mora

ID: 159

Oral presentation

Topics: Human spaceflight safety

Independent Technical Authority from Challenger to Artemis: How Safety Governance Must Evolve Without Losing Its Independence

Johnny Nguyen, Steven Hirshorn

NASA, United States of America

ID: 214

Oral presentation

Topics: Human spaceflight safety

Space Rendezvous & Proximity Operations – Safety Critical Lessons

Brian Rochon

NASA Johnson Space Center, United States of America

ID: 231

Oral presentation

Topics: Human spaceflight safety

Robotic Scouts for Future Safe Human Planetary Exploration: Skyfall Mission to Mars and Moonfall Lunar Drones

Shaun Ryan

NASA Jet Propulsion Laboratory, California Institute of Technology, 4800 Oak Grove Dr. Pasadena, CA United States

ID: 233

Oral presentation

Topics: Human spaceflight safety

Safety Engineering Challenges for Long-Duration Human Missions in Deep Space

Shaun Ryan¹, Michael Kezirian²

¹NASA Jet Propulsion Laboratory, California Institute of Technology, 4800 Oak Grove Dr. Pasadena, CA United States; ²University of Southern California, Los Angeles, CA United States

ID: 133

Oral presentation

Topics: Human spaceflight safety

The Holy Grail: An AI-Agent Framework for Cross-Domain Risk Integration in Human Spaceflight

Jason Scott

NASA, United States of America



1:00pm - 2:30pm	<i>Lunch Break</i>
2:30pm - 3:30pm	P3: Plenary Closing Session Part I Chair: Russ DeLoach Co-Chair: Bernard Chemoul Taro Kuusiholma <i>Aviation Safety at Space Interface</i>
3:30pm - 4:30pm	P4: Plenary Closing Session Part II Chair: Bernard Chemoul Co-Chair: Russ DeLoach Liu Zheng <i>Artificial Intelligence in Space Safety: Applications, Limits, and Governance</i>
4:30pm - 5:00pm	P5: Conference Wrap-Up & Announcements

Conference Agenda

Session

Virtual: Virtual Presentations

Time: Thursday, 22/Oct/2026: 11:00am - 1:00pm

The following presentations will be pre-recorded and scheduled for presentation during the sessions:

Presentations

Analysis of Collision Warning Results Based on Different Data Sources of Starlink Satellites

Ronglan Wang, Minyu Shi

National Space Science Center, Chinese Academy of Sciences, China, People's Republic of

Assessing The Solvency of Insurers Which Underwrite Satellite In-Orbit Insurance: A Monte Carlo Simulation Approach

Yuechen Dai, Richard Watt, Kuntal Das

University of Canterbury, New Zealand

Establishing A Space Search And Rescue System

Rick Button

U.S. Coast Guard, United States of America

From Paper Reactor to Flight Hardware: Disciplined Ground Testing as the Decisive Factor in Safe and Reliable Space Nuclear Power

Matthew Forsbacka

Retired NASA, United States of America

Investigating the Autonomy Safety Gap in Long-Duration Space Healthcare and the Need for a Spaceflight Medical Specific Regulatory Framework

Nicole Vliet¹, Micheal Kezirian¹, Lee Stone²

¹University of Southern California, United States of America; ²National Aeronautics and Space Administration (Retired)

Navigating the Regulatory Frontier: An Integrated Nuclear–Aerospace Safety Framework for Commercial Nuclear Thermal Propulsion Systems

Florian Massol

Massol Beyond Engineering, Australia

Protecting the Space Environment During a Space Nuclear Systems Renaissance

Katrina Moon, Mark Glissman, John. Matchett

Air Force Safety Center, United States of America

Rapid Warning of Satellite Streak Contamination with Neuromorphic Sensing

James Blake¹, Lily Beesley², James McCormac¹, Phineas Whitlock¹

¹Centre for Space Domain Awareness, University of Warwick, United Kingdom; ²School of Metallurgy and Materials, University of Birmingham, United Kingdom

Reducing Human Error in Satellite Operations through Procedural Standardization and Safety Culture: A Framework for Space Operations Centers

Luiz Gustavo Torresan

Brazilian AirForce, Brazil

Towards Safer Rendezvous and Proximity Operations: Standardized Communication and Procedures for Close Approaches in Orbit

Augusto Feldberg Martins

CEUB, Brazil

Uncertainty-Aware Safety Corridor Assessment for Skip-Glide Atmospheric Re-entry

Aneesh Kukreti

BISV, United States of America

To Be Assigned

ID: 237

Oral presentation

Topics: Space safety governance, regulations and standards

From Airspace to Orbital Space: The case for extending the ICAO mandate to Geostationary Orbits

Tommaso Sgobba¹, Sanat Kaul²

¹IAASS, Netherlands, The; ²IFFAAD – India

ID: 211

Oral presentation

Topics: Safety risk management

Analysis and Risk Assessment, systems design in detail and systems Architecture for the Mexican Moon Base Habitat for Analog Missions

Omar Ariosto Niño Prieto, Vicente Guevara Ayala, Eduardo Ulises Sánchez Sánchez, Cuauhtemoc Covarrubias Carranza

OneSide Tech, Mexico

ID: 116

Oral presentation

Topics: Human spaceflight safety

Crisis Management in Commercial Human Spaceflight: Lessons from Aviation Emergency Response

Adele Gammarano

UK CAA, United Kingdom

ID: 251

Oral presentation

Topics: Human spaceflight safety

Demonstrating Medical Preparedness in Commercial Human Spaceflight: A Regulatory Perspective

Anderton, Ryan

Organization(s): UK Civil Aviation Authority--, United Kingdom

ID: 245

Safety And Sustainability Benefits For The CisLunar Environment by M.A.C.E.D.O.N.A.S. Landing System

Charalampos Kosmas

LUNAR CARGO PC, Greece;