



ISAM NEWSLETTER 2024

FROM THE PRESIDENT'S DESK

It is with immense pride and a deep sense of responsibility that I reach out to you through this year's edition of the ISAM Newsletter. As we embark on another year of progress and innovation, I am truly honored to serve as your President and lead our vibrant community of professionals dedicated to the advancement of aerospace medicine in India.



The Indian Society of Aerospace Medicine has a storied legacy of excellence in safeguarding the health and well-being of those who venture into the skies—and beyond. This year, as we continue our commitment to this vital mission, we have made significant strides in both consolidating our foundation and embracing the new challenges and opportunities that lie ahead. Our focus remains on pushing boundaries, strengthening our impact, and shaping the future of aerospace medicine in our country.

A key highlight of this year has been the outstanding contributions of our members to the Human Space Program. Our work in the critical areas of astronaut health, performance assessments, and specialized training has garnered recognition and respect both in India and globally. These efforts underscore our pivotal role in ensuring the fitness and readiness of astronauts, particularly as India prepares for its ambitious space exploration goals.

On the international front, the Society's growing presence was further solidified at prestigious forums such as the ASMA conference in the USA and the ICAM held in Lisbon this year. These platforms have not only allowed us to showcase our expertise but have also opened doors for collaboration with global leaders in aerospace medicine. I am proud to report that the international aerospace medicine community has taken note of our contributions, and our collective work is now influencing global standards and practices.



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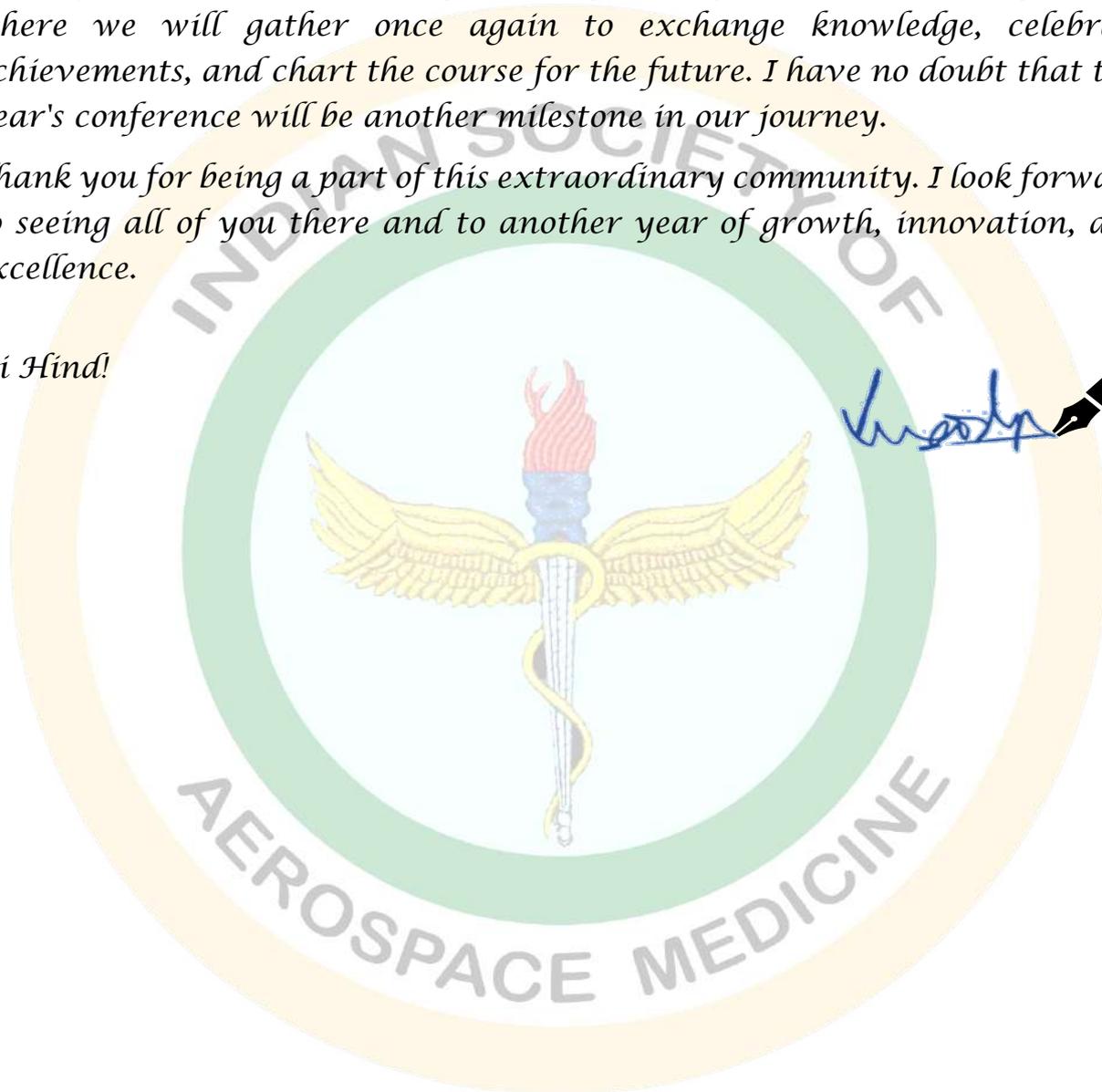
As we continue to make waves both at home and abroad, I want to take this opportunity to thank each and every one of you for your unwavering support and dedication. Your contributions—whether in research, education, or fieldwork—are what drive the continued success of our society.

Looking ahead, I am excited for the upcoming 63rd Annual Conference, where we will gather once again to exchange knowledge, celebrate achievements, and chart the course for the future. I have no doubt that this year's conference will be another milestone in our journey.

Thank you for being a part of this extraordinary community. I look forward to seeing all of you there and to another year of growth, innovation, and excellence.

Jai Hind!

[Signature]





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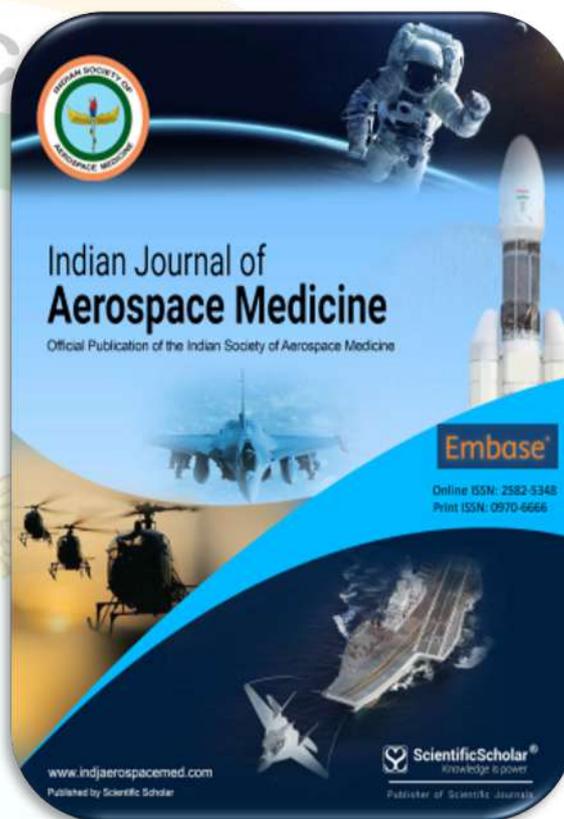
SALIENT ACTIVITIES OF THE SOCIETY

- **EX-OFFICIO ANNUAL MEMBERSHIP OF AsMA**

Commandant IAM and Secretary ISAM were made Ex-Officio annual members of AsMA for academic benefits. The same has been renewed for one more year.

- **INDIAN JOURNAL OF AEROSPACE MEDICINE (IJASM)**

The IJASM is indexed with **EMBASE/ Excerpta Medica**. This achievement not only reflects the high-quality research and scholarly content published in the journal but also enhances its global visibility and accessibility to researchers and professionals worldwide. The EMBASE coverage will start from January 2025 onward, ensuring that all articles published from this date will be available in the EMBASE database. With this inclusion in EMBASE, IJASM now fulfills the criteria set by the National Medical Commission (NMC) for recognized medical journals. This is an important milestone, ensuring the journal is aligned with the standards required for academic recognition and credibility within the medical community. The Journal is available online and last edition was published in Aug 2024. To improve the quality of Journal, comprehensive guidelines and Model Code of Conduct have been formulated. In addition, a policy towards ensuring robust plagiarism check has been formulated and implemented.



- **REGISTRATION OF IEC OF IAM IN DHR, MOH&FW**

Institute Ethics Committee of IAM has been registered under Department of Health Research under MOH&FW, GOI for the first time on 31 Jan 24, in cognizance with New Drugs & Clinical Trial Rules, 2019. It paves the way of Biomedical & health research in a more structured way in the Institute for the organization.



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- **1 & 2 AMTC AS NMC RECOGNIZED TRAINING FACILITY IN AEROSPACE MEDICINE**

PG Resident Officers attached to No. 1 & 2 AMTC carried out a short project as part of the completion of their attachment. The Officers identified a research question and worked on a methodology. This was discussed and the ideas were bounced back-and-forth. As it was to be completed within six weeks, it had to be a feasible for the duration too. The projects completed by the Resident Officers'



have practical application. The studies have been overlooked by the Deputy Commandant of the Academy and appreciated upon reading the completed projects. This exercise of formulating a research question and completing in a short duration has added learning value for the attachment.

- **EDC & RRC PROJECT AT 1 & 2 AMTC**

No. 2 AMTC is set to complete the much-awaited (and delayed) procurement of EDC and RRC simulators. Once commissioned, the chambers will prove to integrate cutting-edge technologies, real-time physiological assessment and video feedback, ensuring that pilots are better equipped to manage the stresses of flight. The outcomes will not only improve individual performance but also contribute to overall mission success and crew safety. As the Unit approaches the finish line, the project promises to establish new standards in conduct of aerospace simulation, benefiting both personnel and operations.





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- **COMMISSIONING OF EJECTION PROCEDURE SIMULATOR AT 1 AMTC**

The latest chapter in the ongoing progression was the commissioning of Ejection Procedure Simulator (EPS) at 1 AMTC, only second of its type in IAF. The equipment simulates ejection forces experienced by a fighter pilot on initiation of ejection from a disabled aircraft in flight. Preventive measures to be adopted during ejection are indoctrinated to the aircrew in an effort to avoid spinal injuries. The EPS complex was inaugurated by the CAS on 10 Jul 24. The training of fighter pilots on the simulator has commenced at 1AMTC.



- **CONTINUING AEROSPACE MEDICINE EDUCATION ONLINE (CAMEO)**

Continuing Aerospace Medicine Education Online provides an effective and flexible way for professionals to stay up-to-date with the latest developments in the field. Virtual modalities, with monthly article discussions, offer an interactive platform where participants can engage with contemporary research, share insights, and apply new knowledge to real-world aviation medicine challenges. This format fosters a collaborative learning environment, allowing for in-depth exploration of emerging topics without the need for physical presence, thus enhancing accessibility and convenience for aerospace medicine specialist. Moreover, the ability to discuss and analyse key articles each month encourages critical thinking, knowledge retention, and the continuous professional growth necessary in a dynamic and evolving field of aerospace medicine.



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• AIR MSHL PM SUNDARAM TRAVELLING FELLOWSHIP: SPREADING AWARENESS OF AEROSPACE MEDICINE



Gp Capt Prathu Rastogi, Travelling Fellow of ISAM for the year 2023-24, conducted guest lectures at Uttar Pradesh University of Medical Sciences (UPUMS), Safai (Etawah) on 08 Nov 24 and Autonomous State Medical College (ASMC), Ferozabad on 09 Nov 24. The mandate of the travelling fellow is to spread the word about the speciality of Aerospace Medicine amongst the newer generation of doctors and undergraduate medical students.

The lecture was well subscribed at both the medical colleges. The audience were totally unaware about the speciality and were amazed to hear the details about the speciality. For better understanding of the audience, the talk was augmented with presentation and short videos depicting the role, responsibilities and importance of Aerospace Medicine specialist in the Aviation sector both in military and civil. The presentation also covered the future aspects with reference to the growing Aerospace industry globally. The medical students were motivated to join Armed Forces in general and to the fraternity of Aerospace Medicine specialist specifically.



It was attended by VC, Pro VC, Dean, Registrar and other faculty members of UPUMS along with approx 235 students of fourth and fifth year. Similarly the session was attended by Principal, vice principal and other faculty members of ASMC, along with approx 150 medical students from third year to final year.

Both the talks were appreciated a lot, as it brought an insight not only among the medical students but also among the medical college faculty, for whom the speciality was novel. The talks were followed by interactive session with the students in which all their queries were resolved.



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- The **94th Annual Scientific conference of Aerospace Medical Association (AsMA)** was held at the **Chicago, Illinois, USA** from **05 to 09 May 2024**.



The main theme of the conference was **“Honoring the Past... Preparing for the Future”**. Approximately 1670+ participants from the United States and more than 480 participants from all over the world attended the meeting. The conference mainly focused on the following categories: Space Medicine, Clinical Medicine, Travel & Air Transport Medicine (ATM), Spatial Disorientation, FAA Medicals, Human Performance/ Human factors & Training and Accident Investigation & Aviation Toxicology. There were a total of 508 Slide presentations, 62 Poster presentations and 85 exhibit stalls.

Two official delegates from Indian Air Force and one ISAM sponsored delegate made podium presentations during ASMA-2024. All the presenters delivered their talks in the highest professional manner and were highly appreciated by the attendees. The details of the presentations are as follows: -

(a) **Gp Capt MS Natraja** presented on **‘Assessment of G-endurance Tolerance of Individuals on Modafinil During Extended Period of Wakefulness’** This was one of the presentations in the session on **‘Occupational Hazards and Protection’** Scheduled from 1000 - 1130 h at Grand Hall GH on 09 May 24 chaired by Joanna Nelms and Karen Keats





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(b) Wg Cdr V Raghunandan presented on '**Comparison of 3-D Laser Scanning Anthropometric Technique with Conventional Direct Method for Head and Facial Parameters**'. This presentation was included in the session on '**Anthropomorphic Measures and Methods**', scheduled from 1400 - 1530 h at Grand Hall J on 06 May 24 chaired by Jimmy Wu and Douglas Hamilton.

(c) Surg Lt Cdr Karthikeyan S presented on '**A Comparative Study of Utricular Function between Healthy Aircrew and Groundcrew using Subjective Visual Vertical**'. This presentation was included in the session on '**Physical & Cognitive Impairment**', scheduled from 1400 - 1530 h at Grand Hall J on 08 May 24 chaired by James DeVoll and Benisse Lester.





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- The 2nd International Congress of Aerospace Medicine (ICAM) was held at Lisbon, Portugal on 03-05 oct 2024.

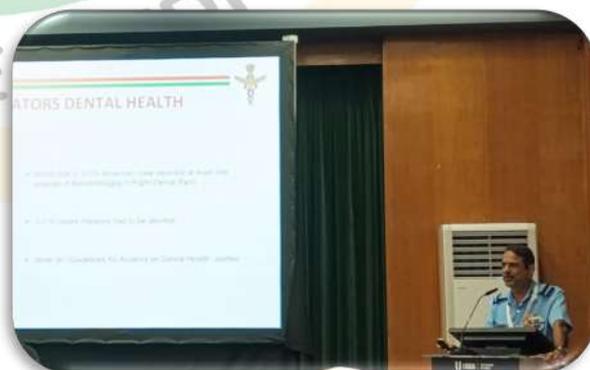


Approximately 500 participants from worldwide attended the event. The participants consisted of speakers from the USAF, European Space Agency, Virgin galactic, FAA, international military organisation and civil aviation industries. There were good number of delegates from America, European countries, Gulf countries, South-east Asia and Australia.

The scientific sessions spanned for three days, occurring simultaneously in three auditoriums. Each session had 4 to 6 papers. The topics of various scientific sessions were Space Medicine, Human factors and performance, Aeromedical certification, Clinical aviation medicine, Travel medicine – Old and new issues, Human Protection – Reaching the extreme, EASA Medicine research activities, Multidisciplinary innovations and Physiology – News from the core.

A delegation team consisting of one official delegate and two ISAM sponsored delegates participated in the congress and presented their scientific research. All three presentations generated significant enthusiasm and interest among the audience. The details of the presentations are as follows: -

- **Air Cmde Mohinder Panwar** presented about '**Navigating Aviation Dentistry: an in-vitro study**'. This presentation was slotted in the session on '**Human Factors and Performance**' scheduled on 03 Oct 24 from 11:00 h to 1230 h. The session was chaired by Glória Magalhães and Sally Evans.





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- **Sqn Ldr Biswajit Bhowmick** presented about '**Effect of HBOT on Hearing Outcome in SNHL**'. This paper was in the session of '**Clinical Aviation Medicine- from Common to Unusual**' scheduled from 0830 h to 1000 h on 04 Oct 24. The session was chaired by Francisco Rios Tejada and Pedro Pinto.

- **Sqn Ldr Shivani Kasture** presented on "**Hypoxia Signature: A Useful Tool for Recognition for Hypoxia Recognition Among Aircrew**". This presentation was included in the third session on "**Physiology – News from the Core**" scheduled from 1415 h to 1530 h on 04 Oct 24. The session was chaired by John Barson and Paola Verde.





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• PARTICIPATION OF IAF SPACE MEDICINE CORE TEAM IN THE 22ND NATIONAL SPACE SCIENCE SYMPOSIUM, 2024

The IAF Space Medicine Core Team involved in Gaganyaan Mission were nominated to participate in the **22nd National Space Science Symposium 2024**, organised by **ISRO** in **Feb 24** at **Goa University**. The Symposium had extensive participation by academia, scientists, engineers, and enthusiasts working in the field of Space Science. Over 1000 delegates participated in the event which included daily plenary talks, inter-disciplinary talks, break-out sessions with panellists and parallel oral & poster sessions. It was a unique opportunity for IAF doctors to listen to and interact with experts from across the nation working in the field of Space Sciences.

One of the scientific sessions was themed on '**Enabling Technologies for Space Exploration**' in which the IAF doctors presented the following topics: -

(a) Oral presentation on '**Living in Space: Aeromedical Aspects of Long-term Spaceflights**' by **Gp Capt P Biswal**, HoD Space Medicine, IAM IAF.



(b) Oral presentation on '**Food and Water Technology in Space: Aeromedical Considerations**' by **Gp Capt Stuti Mishra**, SMO 18 Wg, AF.



(c) Poster presentation on '**Post-flight Rehabilitation of Astronauts: Aeromedical Considerations**' by **Wg Cdr Polash Sannigrahi**, CO 1 AMTC, AF.

(d) Poster presentation on '**Aeromedical Support to Short-duration Human Spaceflight**' by **Sqn Ldr Gaurab Ghosh**, Flight Surgeon (HSP), IAM IAF.

Sqn Ldr Gaurab Ghosh was adjudged as **2nd Best Poster presenter** in the above session. Gp Capt P Biswal was also invited as a panellist in the break-out session titled, 'Future Planetary Missions on Moon, Venus and Mars'.



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- **PARTICIPATION IN BIENNIAL WORKSHOP OF AERONAUTICAL SOCIETY OF INDIA**

Gp Capt P Biswal, HoD Space Medicine, IAM IAF delivered a guest lecture at the Biennial workshop of Aeronautical Society of India at VSSC, ISRO, Trivandrum in Sep 24. His talk covered the vital aspects of Bioastronautics in India and its way ahead.



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INTERNATIONAL PRESENCE BY ISAM MEMBERS

- Dr. Ajith Kumar.S delivered a lecture on '**Adjunctive use of Hyperbaric Oxygen Therapy in non-healing wounds-A south Indian experience**' during the International Conference in Hyperbaric Medicine organised by Hyperbaric Society of India on 04 TO 06 Oct 24 at New Delhi. The session was chaired by Dr. Rakesh Kumar , Prof. Pradeoth Mukundan.K and Dr. Neha Gupta.



- Dr Umesh Kumar presented on '**MALIGNANCIES AMONGST AIRCREW IN A COMMERCIAL AIRLINER**' in ICAM 2024. This presentation was included in the last session on "**Airlines – Lets Talk About...**" scheduled on 05 Oct 24 from 1530 h to 1645 h. The session was chaired by Christine de Vries and Elizabeth Wilkinson.



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• CAS CITATION TO IAM IN CATEGORY B INNOVATION

LASER COMPATIBLE POSTURE REFERENCE BOARD FOR 3D LASER ANTHROSCAN

Lt Col Binu Sekhar M, Wg Cdr BN Vasudev and Sqn Ldr DD Ghosh

In the laser anthropometer the measurement of critical parameters while sitting posture is an issue because of difference in measurement principle in manual and laser anthropometric platform. In manual method the measurements are done using bony landmarks while individual seated against the platform with back support whereas in laser method measurements are done using surface marking of body. To standardize and to negate the variations in measurements in sitting posture for measuring thigh length and leg length in-house back rest was conceptualized and designed so that sitting posture is fixed for measuring thigh length and leg length parameters which are critical in pilot selection and compatibility studies.

The innovation has resulted in standardization of measuring techniques for leg length and thigh length which are critical for aircrew selection and compatibility studies. This methodology would improve the accuracy and precision of measurement using 3D Laser Whole Body Anthroscan.



वायुसेनाध्यक्ष

उत्कृष्टता प्रमाण-पत्र

यह प्रमाण-पत्र आई ए एम को '3 डी लेजर एंथ्रोस्कैन के लिए लेजर अनुकूल पॉस्चर रेफरेंस' के क्षेत्र में उनकी परिचालन/उपस्कर क्षमता को बढ़ाने में एक नवीनतम उत्कृष्ट योगदान के लिए प्रदान किया जाता है। उनके कामकाज के प्रति नवीनता, व्यावसायिकता एवं श्रेष्ठता की मनोभावना प्रशंसनीय है।

नई दिल्ली

20 नवम्बर 2023


(वी आर चौधरी)
एयर चीफ मार्शल
वायुसेनाध्यक्ष



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• ADVANCE AEROSPACE MEDICINE FOR INTERNATIONAL MEDICAL OFFICERS (AAMIMIO) – 2024

The Advanced Aerospace Medicine for International Medical Officer (AAMIMO) course is United States Air Force (USAF) School of Aerospace Medicine's premier international senior flight surgeon training platform. The USAF conducts the AAMIMO course in order to provide advanced training in Aerospace Medicine to Medical Officers from foreign militaries who have had prior training in Aerospace Medicine and are performing duties involving Aviation Medicine in their respective countries. The course focuses on expanding the knowledge of Officers beyond the theoretical concepts provided by standard Aerospace Medicine textbooks. The course provides a strategic overview of the best practices of US Military and Civil Aerospace Medicine and Public Health Institutions and their best practices that includes bodies such as NASA, FAA, FEMA etc, while inculcating decision making abilities in respect of Aviation Medicine amongst the participants. Wg Cdr Sneha Dinakar was selected for the 62nd (AAMIMO) Course – 2024, held at USAFSAM, from 26 Dec 2023 to 21 Jun 2024.





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- **FLIGHT OPPORTUNITY FOR INDIAN ASTRONAUTS IN AXIOM-4 MISSION**

Two out of four Astronaut Designates nominated for Gaganyaan Mission were selected in Jul 24 for NASA's Private Astronaut Mission (Axiom-4). They underwent extensive aeromedical screening and evaluation at IAM for a 14-days' orbital stay on board the International Space Station (ISS).

Apart from selecting the two crew members, the Indian Medical Core Team is actively participating in discussions with the Axiom Flight Surgeons prior to any aeromedical training, evaluation or intervention on the crew members.

The Indian Aerospace Medicine Specialists are also part of the Indian Science Team nominated for collaborative research during this Axiom mission, along with PWs from NASA, ESA (European Space Agency) and TRISH (Translational Research Institute for Space Health).





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• CONTINUING MEDICAL EDUCATION - 2024

A **Continuing Medical Education (CME)** program for the year 2024 titled '**Optimising Human Performance**' was conducted at 12 Wg, Chandigarh on 28 Sep 24. A total of 80 delegates (30 outstation and 50 local] including 8 resource persons participated in the said CME. The entire event was live streamed on AFNET platform.



The CME was inaugurated by **AVM Anupam Agarwal VSM, ACAS (Med), Indian Air Force** on 28 Sep 24. He presided as the chief guest and delivered Keynote address. AVM SGS Datta, PMO, HQ WAC was the chairperson for inaugural session. Air Cmde A Jeyachandran VSM, DPMO, HQ WAC, Air Cmde Rajesh Kumar, Commandant, IAM and other senior PSOs of CH (WC) and local AF units attended the session.

Three scientific sessions were conducted during the day of CME. Each session looked into one particular aspect of performance optimisation and was a natural extension of the key note speech, They were broadly divided as Preparedness for Enhanced Human Performance, Strengthening the Human Element in Operations and Future Strategies in Performance Optimisation. A live demo of PTU was conducted as a part of the scientific program. A utility flip book titled '**Towards Healthier & Fitter Me**' focused on aircrew health was also released during CME-24 by ACAS (Med), IAF.

The scientific programme was well appreciated by the delegates. The papers were of good scientific content. Presentations generated informative discussions and Officers designated as resource persons actively contributed to the event as being chairpersons as well as by sharing from their academic experience on various topics. Overall, the event was a success.



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62nd ANNUAL CONFERENCE OF THE ISAM

The Indian Society of Aerospace Medicine organised its **62nd** Annual Conference at IAM IAF, Bangalore from 23 to 25 Nov 23 on a hybrid platform. The 62nd Annual Conference of ISAM played a pivotal role in promoting collaboration, knowledge exchange, and innovation within the aerospace medicine field. The **hybrid online-offline platform** of the Conference not only facilitated discussions on cutting-edge research and technologies but also helped to strengthen the network of professionals working towards enhancing safety and well-being in aviation and space exploration. The conference was attended physically by 140 members and online by around 50 representatives inclusive of Armed Forces Medical Officers, IAF Aircrew, representatives from DRDO, ISRO & Aviation Industry and the past Presidents of the Society. A total of eight sessions consisting of thirty live podium & four online presentations and five poster sessions were held. A total of fifty eight scientific papers including scientific posters, speaking posters, panel discussions and closed-door sessions were presented during these scientific sessions.

- **THE CONFERENCE THEME AND THE LOGO**

The theme of the 62nd Annual Conference of the ISAM was '**Aerospace Medicine: Strength, Support and Solutions**'. Description of the logo and its individual components is as under:

1. This logo is to commemorate the rich and illustrious years of the Society, and to celebrate **62nd Annual Conference of the Indian Society of Aerospace Medicine**.
2. The logo for the Conference has been designed keeping in view the all-encompassing speciality of Aerospace Medicine. The logo highlights the distinct facets of Aerospace Medicine as a speciality.
3. Description of the individual elements of the logo: -

(a) **ISAM logo**. The symbol of the Indian Society of Aerospace Medicine in the centre of conference logo depicts the omnipresence of society for the last 62 years towards STRENGTHENING, SUPPORTING and RESOLVING the issues in the Aerospace domain.





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(b) Fixed and Rotary wing. The society is the cornerstone in providing Strength to our flight surgeons enabling them to make the perfect Aeromedical Decision, to provide possible Solutions to all Aeromedical issues and thereby Supporting the aviation organizations in developing, operating and maintain the platforms aiming high to touch the sky & space (Gaganyaan Mission).

(c) Gaganyaan logo. It highlights the Society's contribution to India's maiden Human Space Flight Programme – Gaganyaan. Some of the contributions that the society is making to the mission include selection of crew, their periodic aeromedical and physical evaluation, flight surgeon support and consultancy in design and development of various human-use products.

(d) The colour combination of the logo highlights the immense contribution of this society to IAF and its sister organisations.

• PLENARY SESSION OF THE 62nd ANNUAL CONFERENCE



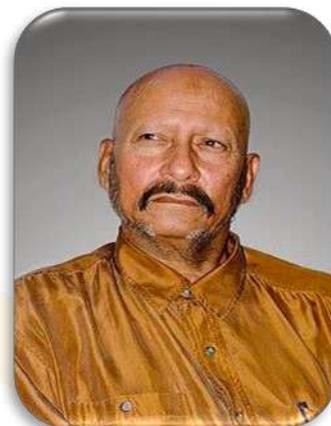
The 62nd Annual Conference was inaugurated on 23 Nov 2023 at 1130 h by Chief of the Air Staff and Chief Patron of the Society **Air Chief Marshal VR Chaudhari PVSM AVSM VM ADC**. Air Marshal R Radhish PVSM AVSM VrC, AOC-in-C Training Command IAF, senior Air Officers of HQ TC and local units, Ex-Comdt IAM and senior veteran Aerosp Med Spls were some of the important dignitaries who graced the occasion. The Session started with an audio-visual presentation on the history and achievements of the ISAM. Following Welcome Address by Comdt IAM, Air Mshl Rajesh Vaidya VSM, DGMS (Air) and President ISAM delivered the Presidential Address. This was followed by the Inaugural Address by the CAS.



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- **AIR MARSHAL SUBROTO MUKERJEE MEMORIAL ORATION**

The Air Marshal Subroto Mukerjee Memorial Oration was delivered by **Dr Syed Mujtaba Hussain Kirmani**. His talk was on the topic, '**PLAYING INTERNATIONAL SPORTS FOR TWO DECADES – WHAT IT TAKES!**'. The orator took the audience through his journey as a cricketer of international repute who played a phenomenal role as wicketkeeper, leading from the front. His inspirational journey has been a motivating factor to numerous Indians. The growing sector of aerospace as well as aerospace medicine in India may take significant inspiration from the zeal and striving attitude for excellence in global diaspora.



- **AVM MM SRINAGESH MEMORIAL ORATION**



The AVM MM Srinagesh memorial oration was delivered online by **Air Marshal (Dr) Pawan Kapoor, AVSM, VSM and BAR (Retd)**, on the topic, '**PATIENT SAFETY: DRAWING LESSONS FROM AVIATION SAFETY**'. His oration included the following – patient safety in the healthcare system and the problems faced delivering the same during patient care. To ensure safety, aviation implemented concepts like checklists, crew resource management, sterile cockpits, preflight medical examinations, robust incident reporting systems, improved transparency, and an independent body to investigate incidents and accidents. He brought out various aviation safety aspects that can be adapted and applied by healthcare to become safer and match the aviation industry's safety standards.

- **AVM JHF MANEKSHAW PANEL**

The JHF Manekshaw Panel was delivered by two eminent speakers; **AVM (Dr) D Gaur AVSM (Retd) & Dr. Srikanth Kondapalli, Ph.D.**

Dr. Srikanth Kondapalli spoke on the topic, '**PSYCHOLOGICAL WARFARE OF CHINA**'. The speaker discussed China's concerns about the use of psywar. It can manipulate public opinion, show discord among opponents, and justify cyberattacks and aggression. Awareness of psywar dangers and preventive measures are crucial.





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AVM D Gaur AVSM (Retd) spoke on the topic, '**OPTRAM – THE EVOLUTION OF A REVOLUTION**'. His talk emphasised regarding OPTRAM - Why we did it, How we did it, What did we achieve and What do we do next? Before concluding the author will deliberate on some leadership and ethical issues that he believes need introspection at all levels in future.

- **TECHNICAL MINI SERIES (TMS) ON 'AEROMEDICAL ASSESSMENT IN CIVIL AVIATION'**

Technical Mini Series in Aerospace Medicine

Aeromedical Assessment in Civil Aviation First Edition



Indian Society of Aerospace Medicine

The Technical Mini-Series (TMS) titled, '**Aeromedical Assessment in Civil Aviation**' was published and released by Chief of the Air Staff during the plenary session of the 62nd ISAM Conference on 23 Nov 23.

This Technical Mini Series titled 'Aeromedical Assessment in Civil Aviation' has been designed for the experienced medical examiners as well as for the aviation medical experts and medical assessors, to aid in aeromedical decisions relating to the medical fitness of DGCA licence holders with complex borderline medical conditions. It is envisaged that this TMS might also

Assistance and advice from the concerned clinical specialists and aerospace medicine specialists has facilitated the first edition of this TMS

which reflects the significant progression made in the field of medical science as it applies to civil aviation medicine. In addition, comprehensive textbooks, medical manuals of other leading aviation regulatory authorities and published studies in aerospace medicine that highlight the clinical dilemmas during medical certification, have been referred, so as not to deviate grossly from international better practices.



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• GENERAL BODY MEETING OF ISAM-2023

The General Body Meeting (GBM) of ISAM was conducted on a Hybrid platform at 1630 h on 24 Nov 23 from during 62nd ISAM Conference held at IAM IAF. This was attended by approx. 100 members physically and 25 members virtually. The GBM was chaired by **Air Marshal**



Rajesh Vaidya VSM, DGMS (Air) & President of the Society and **Gp Capt NK Tripathy**, Secy ISAM conducted the proceedings. The approved minutes of the GBM have been made available on the Society website. Fellowship and life membership were conferred during the GBM by the President, ISAM.

• NEW FELLOWS AND ASSOCIATE FELLOWS OF THE SOCIETY

Air Cmde MM Dogra (Retd) and **Gp Capt YS Dahiya** were conferred Fellowship and **Wg Cdr Juhi Borgohain**, **Wg Cdr Khalling**, **Wg Cdr V Raghunandan**, **Wg Cdr Avinash BK** and **Wg Cdr Polash Sannigrahi** were conferred Associate Fellowship of the Indian Society of Aerospace Medicine during the General Body Meeting.

• NEW LIFE MEMBERS OF THE SOCIETY

Life membership was given during the GBM by the President ISAM to the following medical officers: -

Gp Capt Mudit Sharma (Retd)	Surg Lt Cdr Rajesh Reddy
Sqn Ldr Meghna	Sqn Ldr Krishnaveni M
Surg Lt Cdr A Rakesh	Dr R Pranav Krishna
Sqn Ldr Ketan Deshpandey	Dr Gokul Harish M
Sqn Ldr Nikeata Jha	Dr Sneha M Kahalekar
Maj Venkatesh E	



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AWARDS AND TROPHIES

- THE CHIEF OF THE AIR STAFF TROPHY FOR STANDING FIRST IN PAMC



The Chief of the Air Staff Trophy is awarded to the officer who scores the highest marks in all the Primary Aviation Medicine Courses (PAMC) held during the year. For the year 2023, the trophy was awarded to **Flt Lt Praneet Kaur**. The trophy was presented to the officer by the CAS during the plenary session of the Conference.

- AVM MM SRINAGESH TROPHY

The AVM MM Srinagesh trophy is awarded to the officer who scores the highest marks in the Advance Course in Aerospace Medicine. The trophy was awarded to **Surg Lt Cdr Karthikeyan S** from 58th Advance Course by the CAS during the plenary session of the Conference.



- AOC-IN-C TRAINING COMMAND ROLLING TROPHY



AOC-in-C Training Command Rolling Trophy is awarded for the best dissertation in MD Aerospace Medicine Course. **Sqn Ldr Shruthi B Chandran** was awarded the trophy for her dissertation titled, '**Comparison of Analogous Parameters between 3D Digital Anthropometry and IAM Anthropometric Platform**'. The trophy was awarded by the CAS during plenary session of the Conference.



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- **PRESIDENT'S GOLD MEDAL**

The President's Gold medal is awarded to the student standing first in the MD Aerospace Medicine. The President's Gold medal was awarded to **Surg Lt Cdr Karthikeyan S** by Air Marshal Rajesh Vaidya VSM, DGMS (Air) and President, ISAM during the General Body Meeting held on 24 Nov 2023.



- **AIR MARSHAL PM SUNDARAM TRAVELLING FELLOWSHIP**



Gp Capt SS Mohapatra, Gp Capt YS Dahiya and Col KN Rao (Retd) was awarded the Air Marshal PM Sundaram Travelling Fellowship by DGMS (Air) & President ISAM for the year 2023.

- **AIR MARSHAL KULDIP RAI AWARD**

Air Mshl Kuldip Rai award for the best published article in IJASM for the year 2023 was awarded to **Gp Capt SS Mohapatra** for the research article titled '**A Study to Determine the Possible Links between Subjective (Fatigue Questionnaires) and Objective (Bio-Mathematical Fatigue Prevention Model) Fatigue Detection Methods**'.

- **BEST PAPERS: 62nd ISAM CONFERENCE**

Late Gp Capt GS Nayar award for the best scientific paper presented during the 62nd ISAM Conference was awarded to **Flt Lt Hardik Saha** for the paper titled '**Thromboembolic Disorder in High Altitude Area**' and second best paper was awarded to **Maj Jeya Karthik** for the paper titled '**MTHFR Gene Mutation and Risk of Venous Thrombosis: Aeromedical Decision Making**'. **Wg Cdr JS Joneja** received the award for the best poster for his paper titled '**Aerodantalgia – A Case Report**'.



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Any Other Points



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[This e-Bulletin has been compiled and edited by Surg Lt Cdr Karthikeyan S]