



ISAM E NEWS BULLETIN 2018 -2019

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NEW PRESIDENT

1. Air Mshl MS Butola succeeded Air Mshl RS Grewal AVSM VSM PHS, as the President of Indian Society of Aerospace Medicine on 06 Nov 2019. The Air Mshl is an alumnus of Motilal Nehru Medical College, Allahabad. He was commissioned in Army Medical Corps in 1984 and is an eminent specialist in Aerospace Medicine. In his previous appointments, the Air Mshl has served as DGHS(Armed Forces) and PMO of WAC and MC, IAF.



ACTIVITIES OF THE SOCIETY

2. The 57th Annual Conference of ISAM was organised from **14-16 Sep 18** at the **Institute of Aerospace Medicine, IAF, Bangalore**. The conference was inaugurated by Chief of the Air Staff Air Mshl BS Dhanoa PVSM AVSM YSM VM (Retd). The theme of the conference was "**Aerospace Medicine: Field Applications**". More than 200 service, 30 civilian and 20 foreign delegates attended the conference. The **Air Mshl Subroto Mukherjee Memorial Oration** on 14 Sep 18 was delivered by Air Mshl NB Amaresh VSM (Retd) on the "**The Pilot Physician: What has been and what can be!**". The **AVM MM Srinagesh Oration** on 15 Sep 18 was delivered by AVM Pankaj Tyagi (Retd) on the topic "**Past, Present and Future of the Indian Human Space Programme**". The first ever **JHF Manekshaw Panel** on "**Emerging Trends in Aerospace Medicine**" included talk by Dr Somanath, Director VSSC and Dr Kotresh TM, DEBEL. The scientific and academic discussion consisted of 14 scientific and 3 scientific poster sessions with a total of 54 scientific papers and 24 posters. Besides the scientific sessions, the ISAM Journal Advisory Committee Meeting and the Executive Committee Meeting of ISAM were also conducted on 13 Sep 18.

AWARDS AND AWARDEES

3. Following awards were delivered by Chief of the Air Staff :-
- Chief of the Air Staff Trophy** for Primary Aviation Medicine Courses (PAMC) topper was awarded to **Surg Lt Sangmesh**.
 - DGMS (Air) Best Student Award for INTAM** was awarded to **Flt Lt Srishti Tripathi**.
 - President's Gold Medal** and the **AVM MM Srinagesh Trophy** was awarded to **Maj Urmimala Bhattacharya** for standing first in 57th Advance Course and MD Aerospace Medicine respectively.



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4. Following awards were presented by the President ISAM during GBM :-

a) The **Air Mshl Kuldip Rai Award** (Rs 25000 cash award) for best published scientific paper in IJASM for the year 2017 was awarded to the paper titled 'Inter and Intra Observer Variability in Anthropometric Measurements' by Gp Capt YS Dahiya, Lt Col P Biswal and Wg Cdr MD Sharma.

b) The medal for **Air Mshl PM Sundaram Travelling Fellowship** (2017-2018) was awarded to Air Cmde R Ravi and Gp Capt Piush Renjhen.

c) **Award of Best Paper and Poster** (Rs 5000 Cash award) was given to best paper and poster in Institutional and Field category to following officers

Best paper

Institutional – Lt Col P Biswal

Field - Lt Col Stuti Mishra

Best poster

Institutional- Flt Lt B Nanda Kishore

Field- Wg Cdr HMK Murthy

PM SUNDARAM TRAVELLING FELLOWSHIP (2018 - 2019)

5. The fellowship was awarded to the officers who had visited various Medical Colleges and taken lectures for spreading the awareness about the speciality amongst the medical students. The subcommittee formed at Air HQ had selected Gp Capt M Mukherjee and Col RR Kochhar for the Travelling Fellowship for the year 2019. One such guest lecture was conducted on 24 May 19 at the Institute of Post Graduate Medical Education and Research (IPGMER), Kolkata by Gp Capt M Mukherjee, where introduction, scope, application, challenges and career prospects of Aerospace Medicine were discussed. A total of 80 doctors including the faculty members, undergraduate students and junior residents attended the lecture.

NEW FELLOWS & ASSOCIATE FELLOWS

6. ISAM Society fellowship was awarded to AVM SC Banerjee (Retd) and Gp Capt Vipin Sharma. Surg Capt SS Mahapatra and Surg Cdr P Promod were made Associate Fellows of the society during ISAM 2018.

PUBLICATIONS

7. The Technical Mini Series on “**Aerospace Medicine- Field Applications**” and **IJASM – Summer 2018** Volume 62 Number 1 was released by the Chief of the Air Staff on 14 Sep 18 during Inaugural Ceremony of 57th ISAM Conference.



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WORKSHOPS

8. The DMS (CA) had organized one physical and two e-workshops for the DGCA empaneled Class I and Class II medical examiners last year, with an aim to disseminate the updates in the Medical policies to all. DGCA workshop at ISAM was conducted on 13 Sep 2018, wherein the overall functioning of DGCA and brief errors in Class I & II medical examinations were explained by Wg Cdr N Katoch and Gp Capt Pankaj Pant. Three lectures pertaining to ENT, Ophthalmology and Medical disabilities were also discussed by Wg Cdr Saxena, Gp Capt Sadhna Joshi and Wg Cdr Pushkar Pandey.

ISAM MEMBERS PARTICIPATION IN INTERNATIONAL CONFERENCES

9. The **66th International Congress of Aviation and Space Medicine (ICASM) 2018** was held between 11-15 Nov 2018 at Millennium Hilton Bangkok, Thailand. AVM Sandeep Mukherjee and Air Cmde Narinder Taneja VSM attended the conference as IAF delegates. Air Cmde Sadhana S Nair also attended the conference as ISAM sponsored delegate. There were 58 Oral Presentations & 24 Poster Presentation. The Andre Allard Oration was presented by the eminent speaker, Air Mshl G Veerakul on "**Prediction & Prevention of Cardiovascular Diseases in Air force Officers**". Two of the papers cited by the speaker were authored and co authored by then Wg Cdr N Taneja. The Ernstings panel was on the topic "**Sharing the Skies Safely: Future challenges to Aviation Safety**". Session on space medicine included one presentation by an alumnus of Institute of Aerospace Medicine, Dr Ashok Narayan Moorthy, who presented a paper titled "Crew wellness on short duration Mars analogue mission in the Desert". It's an occasion of great pride to the Indian Aerospace Medicine fraternity as Dr Narayanmoorthy was selected as the scientist astronaut candidate through a global selection process.

10. The **90th Annual Scientific Meeting of Aerospace Medical Association (AsMA)** was held in hotel Rio All Suites, Las Vegas, NV, USA between 05 – 09 May 2019. The theme of the meeting was "Aerospace Medicine Sans Frontières". Approximately 1000 participants from the United States and more than 500 participants from all over the world attended the meeting.





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11. An IAF delegation team, consisting of AVM Daljit Singh, ACAS (Med), Air HQ (RKP), Gp Capt NK Tripathy, Senior Advisor (Av Med) and Flt Lt Sri Hari, Graded Spl (Av Med), 1 Sqn AF attended the meeting. Gp Capt NK Tripathy presented a paper titled '24-hour ambulatory BP monitoring (ABPM): A useful tool for screening of Latent Hypertension among Indian Air Force (IAF) personnel with higher BMIs'. Flt Lt Sri Hari E presented a paper titled 'An objective tool for assessing fatigue: Oculometric Parameters'. There were three guest lectures given by eminent speakers. The 65th Annual Louis H Bauer Lecture was delivered by Johann-Dietrich 'Jan' Worner, Director General of European Space Agency (ESA), The 6th Annual Reinartz Lecture was delivered by Prof Floris Wuyts, Ph D, Head of Research Lab AUREA (Antwerp University Research Centre for Equilibrium and Aerospace) and 54th Annual Harry G Armstrong Lecture was delivered by Adrian Heerbaart, Director of the Central Route Charges Office (CRCO) and Central IT Functions (CIT). The meeting included a total of 476 scientific papers distributed over 81 scientific sessions over 04 days.

12. Additionally, Surg Cdr Ranjan Sarkar and Wg Cdr HPS Sahota participated in the above mentioned conference as AAMIMO students. Surg Cdr Ranjan Sarkar presented "Aeromedical Decision Making in a case of Cryptogenic stroke, IHD and Obstructive Sleep Apnea" and Wg Cdr HPS Sahota presented "A case of Diffuse Large B cell Lymphoma".



13. Prof Munna Khan, a fellow of the Indian Society of Aerospace Medicine was selected as Fellow of Aerospace Medical Association. Flt Lt Sri Hari E was adjudged as the 'Runners up in Young Investigator Award'.



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14. The **67th International Congress of Aviation and Space Medicine (ICASM)** was held at Kolcsey Convention Centre, Debrecen, Hungary from 08-12 Sep 2019. The theme of the Congress was **"Beyond Limitations"**.

15. An IAF delegation with Air Mshl Rajan Singh Grewal AVSM VSM PHS (erstwhile DGMS (Air)), as the team leader attended the conference. Gp Capt MA Khan Sr Adv. Ophthalmology CHAFB and Flt Lt Isha Sah Graded Spl (Av Med) IAM Bangalore, presented the paper as IAF delegates. Gp Capt Piush Renjhen Sr Adv (Av Med) & SMO AF Station Chandigarh as ISAM sponsored delegate and Gp Capt Mona Dahiya Sr Adv (Av Med) DMS(CA) as DGCA sponsored delegate also attended the conference.



Gp Capt MA Khan presented the paper titled "MDC Splatter-Related Intraocular Lead Foreign Body Injury Following Ejection from Hawk Trainer Jet". The case highlighted a unique ejection injury in Hawk trainer jet.



Flt Lt Isha Sah presented a research article titled "Electromyographic Assessment of Muscles Participating in Performance of AGSM" and Gp Capt Piush Renjhen presented a Paper titled "Alpha Thalassemia in Rotary Aircrew: Fitness To Fly A Considered Decision".



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16. A total of 50 oral and 12 poster presentations were made in ICASM 2019. Approximately 230 delegates from 74 different countries all over the world registered for the Congress. This year the Andre Allard Lecture was delivered by Prof A Grósz from Aeromedical Institute, Kecskemét, Bács-Kiskun, Hungary. The topic was titled "Experiences in the Measurement of Visual Working Ability Within The Hungarian Air Force".

17. Apart from the IAF and ISAM sponsored delegates, ISAM members Dr Punita Masrani, Dr Sanjiv Sharma and Dr Sasirajan presented papers. ICAO Panel discussions included the presentations by Dr Puneeta Masrani and Dr Sanjiv Sharma. Dr S Sasirajan, presented on 'Assessment of Physical Activity Pattern among Indian Civil Aircrew and its correlation with Metabolic Syndrome'.



OBITUARY

18. Air Mshl PC Sharda AVSM (03 Jul 1935 – 24 Sep 2018) was commissioned on 24 Jul 1959. He was a renowned teacher in Aviation Medicine and was instrumental in installation of the erstwhile Human Centrifuge at IAM. The Air Mshl was also a qualified paratrooper. He had commanded AFCME & CHAF(B) and later retired as DGMS (Air) on 31 Jul 1995 (05 Apr 1994 – 31 Jul 1995).

