



3rd International Conference on Advanced Air Mobility Systems

ICAAMS-3

Jointly Organised
VFS Australia Chapter
VFS Thailand Chapter

Banquet and Awards and Workshop
Sponsored by



Project Management Unit for Human Resources Development, Research & Innovation

ICAAMS-3 Tentative Program

2-4 Dec 25
*Kesatsart University
Bangkok, Thailand*

Supported by VFS Education Members



Tuesday - 2 Dec 25
Tentative – Based on Papers Received

Time	Activity	Presenter/Authors
0730-0745	All Keynote and Paper Presenters Briefing	Pisittakorn Phiwxhao-Patimakorn Sawangnet Presentations Coordinator
0800-0815	Briefing - ICAAMS-3	Auraluck Pichitkul, Deputy Chair ICAAMS 3
0815-0830	Welcome Address - Organisers	Pornsiri Jongkol, Dean Suranaree University
0830-0845	Welcome Address – Venue Host	Navatasn Kongsamutr, Head Aerospace, Kasetsart University
0845-0900	Welcome Address - Program Chair	Joshua Staubs, Chair Aerospace Engineering Chulalongkorn University
0900-0915	Introductory Address - ICAAMS Series	Arvind Sinha, Convenor-in-Chief
0915-0930	Opening Address – ICAAMS 3	Vijaya Kumar Mudubagilu, Chair ICAAMS 3
0930- 1000	Keynote 1– AAM Airspace Management Updates <i>Chair: Wael Bazzi, UAE</i>	Wasanchai Vongsantivanich, DELV AEROSPACE Co., Ltd <i>Coordinator: Manutsanan Yuenyong</i>
1000-1030	Tea/Coffee/Drinks/Networking	
Session 1 – Aerodynamics 1 <i>Chair: Pinunta Rojratsisrikul, Thailand - Coordinator: Issareephat Kanishthanonda</i>		
1030-1100	Finite State Wake Modeling for Dynamic Ground Effect Analysis	Metry A and Prasad JVR
1100-1130	Uncertainty Quantification for Rotor Blade Sizing of Everest-Altitude Delivery UAVs	Pichitkul A, Tantrairatn S, Ariyarit A
1130-1200	Aerodynamics of Novel Tilt Wing eVTOL Design Featuring Upper and Lower Propellers	Shima E, Yonezawa, K and Sato M
1200-1230	Lunch & Networking	
1230-1330	Keynote 2 – AAM Research & Innovation Updates <i>Chair: Wael Bazzi, UAE</i>	Chinnapat Thipyopas, Kasetsart University <i>Coordinator: Phoopipat Sathienpattanakul</i>
Session 2 – Structures <i>Chair: Yasutada Tanabe, Japan- Coordinator: Gorawan Sattapol</i>		
1330-1400	Integrated Structural Design and Crash Analysis of an MPDV Using the PANDORA Environment	Schwinn D, Atci K, Weiland P, Petsch M, and Kohlgrüber D
1400-1430	Aeroelastic Analysis of large aspect ratio Composite Beams	Bhanumurthy R, Shripathi V, Harish KR and Hanumanthappa H
1430-1500	Tea/Coffee/Drinks/Networking	
Session 3 – Systems 1 <i>Chair: Lakshmi Shankar, USA - Coordinator: Manutsanan Yuenyong</i>		
1500-1530	Tau-Theory Based Guidance Algorithms for Helicopter Obstacle Field Navigation	Esmeck CC and Prasad JVR
1530-1600	Flight Test Validated for the Design of an Automatic Flight Controller for Helicopters	Anoohya BB, Seth A, Gopal H, Kavitha R, Niyas M, Vishnu HP, Shanthi A, Khare A, & George T
1600-1630	Validation of Maximum Control Authority for Helicopter Autopilot - Hard-over Failure Simulation	Vagicharla D, Tomar K, Shanthi A, Khare A and Tajar AR
1630-1700	Day 1 - Vote of Thanks	Joshua Staubs, Program Chair
1700-1745	Day 1 – Closing Remarks	Auraluck Pichitkul, Deputy Chair ICAAMS 3
1930-2200	ICAAMS 3 – Awards, Drinks & Dinner <i>Coordinator: Gorawan Sattapol & Pisittakorn Phiwxhao</i> Sponsored by Project Management Unit for Human Resources Development, Research & Innovation	
	ICAAMS Handing Taking Over - Thailand to UAE <i>Coordinator: Issareephat Kanishthanonda</i>	

Wednesday – 3 Dec 25
Tentative – Based on Papers in Review

Time	Activity	Presenter/Authors
0815-0830	Day 2- Conference Introductory Briefing	Auraluck Pichitkul, Deputy Chair ICAAMS 3
0830-0900	AAM - Study Report	TBA – Thailand <i>Coordinator: Manutsanan Yuenyong</i>
0900--0930	Keynote 3 – AAM Safety Regulation Updates <i>Chair: Wael Bazzi, UAE</i>	Kasitbhat Intuyos, The Civil Aviation Authority of Thailand <i>Coordinator: Gorawan Sattapol</i>
Session 4 –Design <i>Chair: Dominik Schwinn, Germany– Coordinator: Sawarin Padtuean</i>		
0930-1000	Development and Flight Test of Tandem Rotor UAV	Sato A, Tanabe Y, Suzuki H and Ukei Y
1000-1030	Roughness Tolerant Low Reynolds Number Airfoils for Drone Rotor Applications	Ku M, Sankar L
1030-1100	Evaluating Power Optimisation in Dual-Powered Pentacopters versus Conventional Quadcopters	Rohith S, Govindarajan B and Ramakrishna P
1100-1130	Tea/Coffee/Drinks/Networking	
Session 5– Operations and Management <i>Chair: Auraluck Pichitkul, Thailand – Coordinator: Issareephat Kanishthanonda</i>		
1130-1200	An insight into Rescue and Fire Fighting Service requirements for eVTOL operations	Barai A
1200-1230	STI Mechanisms Sridy to Promote the Development of UAS Ecosystem for Innovation in the Eastern Economic Corridor (EEC)	Pongkittivanit T, Pichikul A, Ariyarit A and Tantrairat S
1230-1330	Lunch and Networking	
1330-1400	Keynote 4 – AAM Design and Development Updates <i>Chair: Wael Bazzi, UAE</i>	Thanakorn Supsukbaworn, Avilon Robotics Co., Ltd <i>Coordinator: Manutsanan Yuenyong</i>
Session 6 –Systems 2 <i>Chair: A Barai, – Coordinator: Pawat Thanasuphawimon</i>		
1400-1430	Soft Geofencing with Control Barrier Functions for Safe and Efficient Autonomous Navigation	Rahlf s FM
1430-1500	Systematic approach to Establish Control Authority of a Digital AFCS for a Helicopter through Actuator Hardover Failure Simulations and Flight Testing.	Seth A, George T and Singh GDKu
1500-1530	Tea/Coffee/Drinks/Networking	
Session 7 – Aerodynamics 2 <i>Chair: JVR Prasad USA – Coordinator: Brian Panchon Kuiper</i>		
1530-1600	Ahmed-Body-like eVTOL Fuselage for Aerodynamic Benchmark	Kumai H, Kitamura K, Shima E
1600-1630	Lift Rotors Interactions in Level Forward Flight	Tanabe Y, and Sugawara H
1630-1645	ICAAMS-3 Closing Address	Vijaya Kumar Mudubagilu, Chair

Thursday - 4 Dec 24

Workshop

Sponsored by



Project Management Unit for Human Resources Development, Research & Innovation

Enhancing Future VTOL (AAM) usage in the Region

Chair - Pitaakphong Rattanagraikanakorn

Panel – Thailand Keynote Presenters and Study Report Team

Coordinators - Issareephat Kanishthanonda, Pisittakorn Phiwkhao & Gorawan Sattapol

The Workshop aims to provide a platform to all stakeholders from the field of research & development to manufacturers, regulators, operators, and other leaders in the industry to discuss the present status of limited use of the helicopters in the Asia Australia region and its associated issues and challenges.

As future Advanced Air Mobility (AAM) aircraft are likely to share the airspace with helicopters and are likely to be operated under similar regulations, the present problems facing the helicopter industry are likely to be carried forward to future AAM operations. The Workshop will discuss how we can ensure the smooth induction and operationalization of the new platforms while ensuring that the regulatory and operational hurdles are overcome to allow AAM to fulfill its promise as a gamechanger for society.

The Workshop will also highlight the global status of the efforts by various stakeholders in AAM. This includes the design and development, standards & certification, airspace management and operationalization of the AAM platforms. The Workshop will discuss the challenges which the industry is likely to face as we embrace new concepts and technology.

The outcome of the Workshop will help generate ideas to develop a generic “AAM Roadmap” for the region in the immediate future by the relevant authorities to enhance the usage of not only its present helicopter fleet, but also the expected introduction of AAM platforms, by customization of the roadmap.

