Tentative Program

6th International Conference on

Aerospace and Aerodynamics

August 02-03, 2018 | Barcelona, Spain



Interactive Sessions

Keynote Lectures

Plenary Lectures

Workshops

Exhibitors

B2B Meetings

For available speaker slots

aerospace@annualconferences.org

Program at a Glance

Day 1

Morning Session

General session	
Inaugural Address	
Keynote Session	Keynote/Plenary Talk 1 (Slot Available)
	Keynote/Plenary Talk 2 (Slot Available)
	Keynote/Plenary Talk 3 (Slot Available)
Panel Discussions/Group Photo	
Coffee/Tea Break (Networking)	
5 Speaker (20 min) slot avilable	

Evening Sessions

Lunch Break	
6 Speakers (20 min) slot avilable	
Coffee/Tea Break (Networking)	
5 Speaker (20 min) slot avilable	

29 Speakers on Day 1

Day 2

Morning Session

Keynote Session	Keynote/Plenary Talk 1 (Slot Available)
	Keynote/Plenary Talk 2 (Slot Available)
	Keynote/Plenary Talk 3 (Slot Available)
Panel Discussions/Group Photo	
Coffee/Tea Break (Networking)	
5 Speaker (20 min) slot avilable	

Evening Sessions

Lunch Break	
6 Speakers (20 min) slot avilable	
Coffee/Tea Break (Networking)	
5 Speaker (20 min) slot avilable	

29 Speakers on Day 2

Awards & Closing Ceremony

Note: Program Shedule is subject to change with final allotment of the speaker slots

For more Details Ps: https://aerospace-engineering.conferenceseries.com

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Conference Highlights

- Clean Energy
- Aerospace
- Aerospace Design Engineering
- Aeronautics
- Astronautics
- Material Science
- Applications of Aerospace Technology
- Fluid Mechanics
- Aerodynamics
- Avionics
- Heat Transfer
- Aeroacoustics
- Rocket Propulsion
- Unmanned Aerial Vehicles
- Airship Design and Development
- Aircraft Stability and Control
- Space Flight Mechanics
- Industrial Automation
- Space Explorations

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Glimpses of past Aerospace Conferences



















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Scientific Program

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OCTOBER 05-07, 2015 SAN FRANCISCO, USA



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Scientific Program

Day 1 **October 05, 2015**

08:00-08:50 **Registrations**

Redwood Sequoa

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08:30-08:50 **Opening Ceremony**

Keynote Forum

08:50-09:00 **Introduction**

09:00-09:30 **Advanced technology historical development and technology advancements in electric aircraft and spacecraft propulsion**

James M. Free, NASA Glenn Research Center, USA

09:30-10:00 **The James Webb Space Telescope mission**

Matthew Greenhouse, NASA Goddard Space Flight Center, USA

Coffee Break @ Foyer 10:00-10:15

10:15-10:45 **Robustification of repetitive control systems for high accuracy and high speed operation**

Richard W. Longman, Columbia University, USA

10:45-11:15 **Efficient patterned vertical axis wind turbine farms**

Shaaban Abdallah, University of Cincinnati, USA

Group Photo: 11:15-11:20

Track 1: Fluid Mechanics

Session Chair: Igor Zolotarev, Institute of Thermomechanics, Czech Republic

Session Introduction 11:20-11:25

11:25-11:45	**Theory and commercial software finding the balance in finite element instruction at the undergraduate level**
	Gregory K. Watkins, California State University, Chico, USA
11:45-12:05	**Theoretical optimization of a cylindrical body of rotation using magnus effect lift**
	Mark N. Callender, Middle Tennessee State University, USA
12:05-12:25	**Analytical solution for welded joints of perpendicular plates subjected to torsional moment**
	Alexander M. Wahrhaftig, Federal University of Bahia, Brazil
12:25-12:45	**Nonlinear waves and transfer processes in liquid film flow**
	Sergey Alekseenko, Institute of Thermophysics, Russia
12:45-13:05	**Use of lattice Boltzmann method to simulate interaction between fluid flow and particle motion in small scales**
	Yong Kweon Suh, Dong-A University, Korea

Lunch Break @ Tiburon Sausalito : 13:05-13:35

Workshop

13:35- 14:35	**Integral Coordination and Management of Advanced Distributed Aerospace Missions**
	Peter S. Sapaty, National Academy of Sciences , Ukraine

Track 2: Aerodynamics	
Session Chair: Gregory K. Watkins, California State University, Chico, USA	
	Session Introduction 14:35-14:40
14:40-15:00	**Advanced propulsion in the era of wormhole physics: is it space-drive time yet?**
	James F. Woodward, California State University, USA
15:00-15:20	**A numerical comparison study between co-rotating and counter-rotating savonius wind turbine clusters**
	Shaaban Abdallah, University of Cincinnati, USA
15:20-15:40	**An integrative research program of bio-fuel combustion performance and emissions**
	S. R. Gollahalli, University of Oklahoma, USA
15:40-16:00	**Measuring of the profile vibrations on the flutter critic flow velocity**
	Igor Zolotarev, Institute of Thermomechanics, Czech Republic
	Coffee Break @ Foyer 16:00-16:15
16:15-16:35	**Shape optimization of a wind turbine airfoil by using genetic algorithm**
	Erkan Orman, Anadolu University, Turkey
16:35-16:55	**The potential of origami-based sheet metal folding for vehicle design**
	Ala Qattawi, University of California, USA
Young Researcher Forum	
16:55-17:05	**Trial CO_2 extraction ceramic membrane with an integration of a CO_2 laser gas detector**
	Ngozi Claribelle Nwogu, Robert Gordon University, U.K
17:05-17:15	**Volatile organic compounds (VOCS) destruction over noble metal catalyst nano structured composite membranes**
	Mohammed Nasir Kajama, Robert Gordon University, U.K
17:15-17:25	**Evaluation and characterisation of composite mesoporous membrane for lactic acid and ethanol esterification**
	Edidiong Okon, Robert Gordon University, U.K
17:25-17:35	**Study of the selectivity of methane over carbon dioxide and inert gases using composite inorganic membranes**
	Habiba Shehu, Robert Gordon University, U.K
17:35- 17:45	**Effect of temperature on gas transfer through alumina membrane**
	Ifeyinwa Orakwe, Robert Gordon University, U.K
17:45-17:55	**A study on the impact of soil erosion in construction industry: Major problems and control measures**
	Umunnah U.P, Vanpas Agency Services, Nigeria
17:55-18:05	**Design of biomass digester and performance analysis, using local raw materials**
	Godson Ogubuike Osueke, Federal University of Technology, Nigeria
18:05-18:15	**A novel application of NFC smart phones for mobile data collection and storage; a case study**
	Ume Nnamdi , Nadel Bitmaps Technology Services , Nigeria
18:15-18:25	**A study on economic assessment of simultaneous use of depleted oil reservoirs for underground natural gas storage and enhanced oil recovery**
	Anyadiegwu C.I.C, Federal University of Technology , Nigeria
18:25-18:35	**A numerical study on prediction of the aerodynamic performance and design of a centrifugal compressor**
	Won-Seok Heo, Seoul National University, Republic of Korea

Day 2 October 06, 2015	
Redwood Sequoa	
Keynote Forum	
08:00-08:30	**Shape optimization of axisymmetric bodies in hypersonic reactive flow for minimizing drag and heat transfer** **Ramesh K. Agarwal**, Washington University, USA
08:30-09:00	**Insoluble discharge formation in the air cathode of Li-Air batteries** **Yun Wang**, University of California, Irvine, USA
Track 8: Design and Development of Rockets Track 9: Space Engineering Track 15: Applications of Aerospace Technology	
Session Chair: Elżbieta Jarzębowska, Warsaw University of Technology, Poland	
	Session Introduction 09:00-09:05
09:05-09:25	**Orbital debris: What are the best near-term actions to take? a view from the field** **Mark A. Skinner**, The Boeing Company, USA
09:25-09:45	**Asteroid redirection using synchronized femtosecond pulse trains** **Richard Fork**, University of Alabama Huntsville, USA
09:45-10:05	**Aerospace & Engineering the World's Future?** **Shawn Paul Boike**, America Industrial Consultants, USA
	Coffee Break @ Foyer 10:05-10:20
10:20-10:40	**Systems engineering approach and space technology transfer: The role of international relations and public policy** **Veronica La Regina**, Italian Space Agency (ASI), Italy
10:40-11:00	**The particle Universe** **Edwin Zong**, Oasis Medical Group Inc, USA
11:00-11:20	**Single event effects induced by high energy protons in gumstix computer on module technology** **Kathleen Morse**, Yosemite Space Groveland, USA
11:20-11:40	**Integral spatial intelligence for advanced terrestrial and celestial missions** **Peter Simon Sapaty**, National Academy of Sciences, Ukraine
Track 3: Airship Design and Development Track 4: Flight Vehicle Navigation Track 5: Vehicle Systems and Technologies Track 6: Design and Modelling of Aircraft and Helicopter Engines	
Session Chair: Mark A. Skinner, The Boeing Company, USA	
	Session Introduction 11:40-11:45
11:45-12:05	**Fluid-Structure interaction (FSI) analysis of a solar powered UAV** **Kevin R. Anderson**, California State Polytechnic University, USA
12:05-12:25	**Radar screening using weakly ionized plasmas** **Jonathan Blackledge**, University of KwaZulu-Natal, South Africa
12:25-12:45	**Allocation-based fault tolerant control with actuator dynamics for X-by-wire electric vehicles** **Weiwen Deng**, Jilin University,China
	Lunch Break @ Tiburon Sausalito 12:45-13:15
13:15-13:35	**Electromechanical vehicle direction sensor** **Khaled Asfar**, Jordan University of Science and Technology, Jordan
13:35-13:55	**One versus two: A different philosophy in simulated combat training** **Antonio O. Dourado**, Federal University of Santa Catarina, Brazil

Workshop	
13:55-14:55	**Space , Energy & Engineering the Future** **Shawn Paul Boike,** America Industrial Consultants, USA **David Hyland,** Texas A&M University, USA
Track 7: Robotics and Mechatronics Track 13: Mechanics, Dynamics and Controls	
Session Chair: Kevin R. Anderson, California State Polytechnic University, USA	
	Session Introduction 14:55-15:00
15:00-15:20	**Foundation of graduate study in mechanical engineering** **Shuh Jing Ying,** University of South Florida, USA
15:20-15:40	**A model-based debris tracking controller design for a free-floating space vehicle** **Elżbieta Jarzębowska,** Warsaw University of Technology, Poland
	Coffee Break @ Foyer 15:40-15:55
15:55-16:20	**Poster Sessions**
MA-001	**Blockage corrections in wind tunnel tests of small vertical axis wind turbines** **Soon-Duck Kwon,** Chonbuk National University, South Korea
MA-002	**Phase-field modeling of fracture in linear thin shells** **Fatemeh Amiri,** Bauhaus university of Weimar, Germany
MA-003	**MET-NET precursor units high level shock testing** **Joaquin Azcue,** Spanish National Institute of Aerospace Technology, Spain
MA-004	**INTA Thermal control design to MXGS Instrument for the ASIM payload** **Valvanera Eiriz Martinez,** Spanish National Institute of Aerospace Technology, Spain
MA-005	**Gaseous imperfections effect on the supersonic flow parameters for air in nozzles** **Merouane Salhi,** Institute of Aeronautics and Space Studies, Algeria
Speaker Sessions	
16:20-16:40	**Dynamic stability of visco-elastically supported plates** **Beatrice Pomaro,** University of Padova, Italy
16:40-17:00	**Design, simulation and optimization of a supersonic shot peening nozzle** **Zhi-Qian Zhang,** Institute of High Performance Computing A*STAR, Singapore
Young Researcher Forum	
17:00-17:10	**Dynamical performance analysis of hybrid vehicle based on turbocharger derivative micro gas turbine engine** **Moin U Ahmed,** Queen Mary University of London, U.K
17:10-17:20	**An integrated model for dendrite growth simulation in selective laser melting** **Chen Wenhao ,** Hong Kong University of Science and Technology, Hong Kong SAR, China
17:20-17:30	**The effect of individual input parameters on the development of imperfections during selective laser melting** **Tilita George Alexandru,** Hong Kong University of Science and Technology, Hong Kong SAR, China
17:30-17:40	**Aero spike Engine-The design of a LOX/Methane multi-chamber Aero spike Engine** **Wesley C. Young,** California State University , USA
17:40-17:50	**Supplier selection and order allocation using modified fuzzy AHP-based approach in manufacturing networks** **Nan Li,** Hong Kong Polytechnic University, Hong Kong
17:50-18:00	**Consecutive vortex ring formation from a pulsed jet** **Zachary Garcia,** University of Alaska Anchorage, USA
18:00-18:10	**R.A.W. car (Road, Air, Water Car)** **Arjun Jamedar,** Vignana Bharathi Institute of Technology, India
18:10-18:20	**Adaptive Feedforward Cancellation (AFC) for low frequency noise reduction in laboratory settings** **Suparoek Junsupasen,** King Mongkut's University of Technology, Thailand

Day 3 October 07, 2015	
Redwood Sequoa	
Track 10: Bioengineering and Bio-Mechanics Track 11: Material Processing Track 12: Energy Processing Track 14: Heat Transfer Systems Track 16: Mechanical Engineering and Management	
Session Chair: Sunwoo Kim, University of Alaska Fairbanks, USA	
	Session Introduction 10:00-10:05
10:05-10:25	**Investigation of the effect of tio2 on the thermal, mechanical and erosive properties of aviation thermoplastic composites**
	Fuat OKUMUŞ, Gediz University, Turkey
10:25-10:45	**A comparative study on optimization of machining parameters by turning nickel based super alloys according to taguchi method**
	Abdullah Altin, Van Yuzuncu Yıl University, Turkey
10:45-11:05	**Optimum configuration for roadway embankment stabilization on permafrost using constructal law**
	Sunwoo Kim, University of Alaska Fairbanks, USA
	Coffee Break @ Foyer 11:05-11:20
11:20-11:40	**Nano/Micro fluidic systems for circulating Tumor Cells (CTCs) rapid detection and diagnosis**
	Fan-Gang Tseng, National Tsing-Hua University, Taiwan
11:40-12:00	**Simulation research of driving schemes for a dynamic calibration system of fuel turbine flow meters**
	Wang Bin, Nanjing University of Aeronautics and Astronautics, China
12:00-12:20	**Study on the penny platform of variable stator vane in compressor**
	Yang Rongfei, Nanjing University of Aeronautics and Astronautics, China
12:20-12:40	**Flight control of a UAV using fuzzy gain-scheduled PID**
	Ahmet Ermeydan, Anadolu University, Turkey
12:40-13:00	**The research on technological parameters of short forming process of ring parts**
	Lu Jia, Taiyuan University of Science and Technology, China
13:00-13:20	**Effect of different building direction on fracture toughness of ultra-high strength aerospace components made by additive manufacturing**
	Hamza Alsalla, Exeter University, UK
13:20-13:40	**Heat transfer in cistern**
	Mohammadreza khani, Islamic Azad University, Iran
	Lunch Break @ Tiburon Sausalito 13:40-14:20
14:20-14:40	**Portable wheelchair scale**
	Shuh Jing Ying, University of South Florida, USA
14:40-15:00	**Design for reliability of mechatronic systems supported by knowledge-based systems in design process early phases**
	Jonny Carlos da Silva, Federal University of Santa Catarina (UFSC), Brazil
15:00-15:20	**Unmanned Aerial System (UAS) engine research at US Army research laboratory**
	Chol-Bum 'Mike' Kweon, US Army Research Laboratory, USA
Panel Discussion	
Best Poster Award	
Closing Ceremony	

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Medical & Clinical Conferences

Immunology	Nursing	Oncology & Cancer	Neuroscience	Dentistry
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Healthcare Management	Pathology	Physical Therapy Rehabilitation	Palliative care	
Surgery	Alternative Healthcare	Ophthalmology	Radiology	

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Nutrition	Veterinary	Chemical Engineering	Geology & Earth science
Chemistry	Pharmaceutical Sciences	Materials Science	Chemical Engineering
Nutrition	Geology & Earth science	Environmental Sciences	Nanotechnology
Pulmonology			Hematology

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4th International Conference and Exhibition on

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October 03-05, 2016 Miami, USA

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4th International Conference and Exhibition on

Mechanical & Aerospace Engineering

October 03-04, 2016 Orlando, USA

Scientific Program



Day 1 October 03, 2016

09:00-09:30 Registrations

Salon 3 & 4

conferenceseries.com 09:30-10:00 **Opening Ceremony**

Keynote Forum

10:00-10:30 **Title: Aiming for perfection in spacecraft jitter mitigation and vibration isolation**
Richard W Longman, Columbia University, USA

10:30-11:00 **Title: Improved hamiltonian adaptive control of rotational mechanics**
Timothy Sands, Air Force Institute of Technology, USA

Networking and Refreshment Break 11:00-11:20

11:20-11:50 **Title: The evolution of functional safety methods for mech-aero cyber physical vehicle systems**
Daniel P Schrage, Georgia Tech, USA

11:50-12:20 **Title: Using control theory to design structures, w/ tensegrity examples**
Robert Skelton, University of California, USA

12:20-12:25 @ Group Photo

Sessions: Fluid Mechanics | Aerodynamics | Airship Design & Development | Flight Vehicle Navigation

Session Chair: Ahmad Ramadan, Arab Academy for Science, Technology and Maritime Transport, Egypt

Session Introduction

12:25-12:45 **Title: Study of interaction between aluminum facing and honeycomb structure in quasi-static and impact loading**
Gholamhossein Liaghat, Kingston University, UK

12:45-13:05 **Title: Power captured experimentally from water wave using the wave hunter system**
Ahmad Ramadan, Arab Academy for Science, Technology and Maritime Transport, Egypt

13:05-13:25 **Title: Effect of post fuel injection timing on combustion and emissions in a direct injection diesel engine.**
Volkan Akgül, Bartin University, Turkey

Lunch Break 13:25-14:10

14:10-14:30 **Title: Interaction between polyurethane foam and aluminum honeycomb in quasi-static penetration**
Gholamhossein Liaghat, Kingston University, UK

14:30-14:50 **Title: Unsteady bubbly cavitating nozzle flows**
Zafer Baskaya, Istanbul Technical University, Turkey

14:50-15:10 **Title: Innovative design investigation of an augmented drag vertical axis wind turbine under unsteady characteristics**
Ahmad Ramadan, Arab Academy for Science, Technology and Maritime Transport, Egypt

15:10-15:30 **Title: Performance improvement of simple and combined cycle power plants by gas turbine inlet air conditioning using absorption cooling system**
Abdel Rahman, Alexandria University, Egypt

15:30-15:50 **Title: Experimental fatigue analysis and investigation of optimal- angle ply orientation of composite tubes under variable cyclic loading**
Fuat Okumuş, Gediz University, Turkey

Networking and Refreshment Break 15:50-16:05

Sessions: Bio Engineeing & Bio-Mechanics | Heat Transfer Systems | Applications of Aerospace Technology | Mechanical Engineering & Management

Session Chair: Shawn A Putnam, University of Central Florida, USA

Session Introduction

16:05-16:25 **Title: Aviation manufacturing towards to Industry 4.0: A review**
Gustavo Franco Barbosa, Federal University of Sao Carlos, Brazil

16:25-16:45	**Title: QUAVER – simple quasistatic verification test approach** **Edgardo Roggero,** Universidad Tecnologica Nacional, Argentina
16:45-17:05	**Title: Heat transfer coefficient characterization in the thermal and hydrodynamic boundary layers of flowing fluids and evaporating thin-films.** **Shawn A Putnam,** University of Central Florida, USA
17:05-17:25	**Title: PROPELLER DESIGN - Software implementation and application of analytical and numerical tools for propeller design and shape optimization** **Felix Christopher Frischmann,** Technische Universitaet Muenchen, Germany
17:25-17:45	**Title: Micro-topography generation method using a rotating tool actuated by an electromagnetic actuator** **Sun-Kyu Lee,** Gwangju Institute of Science and Technology, Korea

Panel Discussion @ 17:45-18:00

Day 2 October 04, 2016

Salon 3 & 4

Keynote Forum

09:40-10:10	**Title: The role of infinite dimensional direct adaptive control in quantum information systems** **Mark J Balas,** Embry-Riddle Aeronautical University, USA
10:10-10:40	**Title: Shape optimization of supersonic bodies to reduce sonic boom signature** **Ramesh K Agarwal,** Washington University, USA

Sessions: Design & Development of Rockets | Space Engineering | Energy Processing | Mechanics, Dynamics and Controls

Session Chair: Hansen A Mansy, University of Central Florida, USA
Session Co-Chair: Vishwas N Bedekar, Middle Tennessee State University, USA

Session Introduction

10:40-11:00	**Title: Microsatellite propulsion systems for low earth orbit** **Paul A Zeranski,** American Public University, USA

Networking and Refreshment Break 11:00-11:20

11:20-11:40	**Title: At the cutting edge, or beyond the fringe: Does physics allow rapid spacetime transport?** **James F Woodward,** California State University Fullerton, USA
11:40-12:00	**Title: Digital + physical confluence – Era of intelligent & interconnected machines** **Sanketh Bhat,** GE Global Research, India
12:00-12:20	**Title: Design of viscoelastic dynamic vibration absorber based on a sandwich beam model** **Yingyu Hua,** Hong Kong Polytechnic University, Hongkong
12:20-12:40	**Title: The rayleigh method applied to a actual 30-m-high metalic pole** **Alexandre de Macêdo Wahrhaftig,** Federal University of Bahia (UFBa), Brazil
12:40-13:00	**Title: Numerical model of inspiratory flow in an animal lung airway tree** **Hansen A Mansy,** University of Central Florida, USA

Lunch Break 13:00-13:45

Workshop

13:45-14:45	**Title: New aerospace engineering tech for our world's improved future** **Shawn Paul Boike,** Aerospace Consultant at Zodiac Aerospace, USA

Sessions: Vehicle Systems and Technologies | Design and Modelling of Aircraft and Helicopter Engines | Robotics and Mechatronics | Material Processing

Session Chair: Mark N Callender, Middle Tennessee State University, USA

Session Introduction

14:45-15:05	**Title: Finite nonlinear responses of uncertain shell structures under nonstationary random excitations** **Cho W Solomon To,** University of Nebraska, USA
15:05-15:25	**Title: One versus two: a different philosophy in simulated combat training** **Antonio Dourado,** Federal University of Santa Catarina, Brazil

15:25-15:45	**Title: Insta-grid & our exciting engineered future** **Shawn Paul Boike,** Aerospace Consultant at Zodiac Aerospace, USA
	Networking and Refreshment Break 15:45-16:05
16:05-16:25	**Title: Robotics in mechanical engineering** **Shuh Jing Ying,** University of South Florida, USA
16:25-16:45	**Title: Increasing the quality in product development through process efficiency** **Hugo d'Albert,** Technical University of Munich, Germany
16:45-17:05	**Title: Multimechanism energy harvesting combining faraday's law of induction and piezoelectric effect** **Vishwas N Bedekar,** Middle Tennessee State University, USA
17:05-17:25	**Title: UAS propeller/rotor sound pressure level reduction through leading edge modification** **Mark N Callender,** Middle Tennessee State University, USA
17:25-17:45	**Title: An electromagnetic ship designed by Lie-QED- and their fermionic fock space Principles in superconducting to the Future Flights** **Francisco Bulnes,** Tecnologico de Estudios Superiores de Chalco, Mexico
	Panel Discussion @ 17:45-18:00
	Award Ceremony



Bookmark your dates

5th International Conference and Exhibition on

Mechanical and Aerospace Engineering

August 21-22, 2017 Canada

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Day 1 October 02, 2017

09:00-9:30 Registrations

Hampton Events Center B

conferenceseries.com 09:30-9:45 **Opening Ceremony**

Keynote Forum

Introduction

09:45-10:15 **Title: Recent developments in advanced propulsion and the issues of interstellar transport**
James F Woodward, California State University, USA

10:15-10:45 **Title: The effects of rarefaction and thermal non-equilibrium on a blunt body and a bicone in hypersonic flow and their shape optimization for reducing both drag and heat transfer**
Ramesh K Agarwal, Washington University, USA

Group Photo @ 10:45–10:50

Panel Discussion

Networking & Refreshment Break 10:50–11:05 @ Foyer Event Center

11:05-11:35 **Title: Improved hamiltonian adaptive control of rotational mechanics**
Timothy Sands, The Naval Postgraduate School , USA

11:35-12:05 **Title: Future of mobility with autonomous and connected vehicles**
Fred Barez, San Jose State University, USA

12:05–12:35 **Title: Experimental evaluation and computational simulation of structures subject to high velocity impact loading**
Brendan J O Toole, University of Nevada Las Vegas, USA

12:35–13:05 **Title: Uncertainty analysis in engineering: Past, present, and future**
Isaac Elishakoff, Florida Atlantic University, USA

Panel Discussion

Lunch Break 13:05–13:45 @ Bora Bora

Fluid Mechanics | Aerodynamics | Airship Design & Development | Flight Vehicle Navigation | Bio Engineering & Bio-Mechanics | Heat Transfer Systems | Applications of Aerospace Technology | Mechanical Engineering & Management

Session Chair: Fred Barez, San Jose State University, USA

Session Introduction

13:45–14:05 **Title: Discover lagrangian equation for fluid mechanics**
Shuh Jing Ying, University of South Florida, USA

14:05–14:25 **Title: UAS rotor sound pressure level reduction through leading edge, upper surface, and trailing edge modification**
Mark N Callender, Middle Tennessee State University, USA

14:25–14:45 **Title: Numerical and experimental evaluation of novel heat pipe design for use in thermal energy storage applications**
Songgang Qiu, West Virginia University, USA

14:45–15:05 **Title: Dual-rotor vertical axis wind turbine mounted on houses**
Khaled Asfar, Jordan University of Science and Technology, Jordan

15:05–15:25 **Title: Flow mechanism analysis of the Magnus effect for spinning finned projectile**
Jiawei Zhang, Beijing Institute of Technology, China

15:25–15:45	**Title: Effect of elastic deformation on the aerodynamic characteristics of a spinning projectile** **Jintao Yin,** Beijing Institute of Technology, China
15:45–16:05	**Title: One versus two: A different philosophy in simulated combat training** **Antonio O Dourado,** Federal University of Santa Catarina, Brazil

Panel Discussion 16:05-16:15

Networking & Refreshment Break 16:15-16:30 @ Foyer Event Center

16:30-16:50	**Title: Optical sensing based on micro-scale resonators** **Maurizio Manzo,** University of North Texas, USA
16:50-17:10	**Title: Terra response: A subsurface anomaly detection system** **Andrew D Lowery,** Terra Response, LLC, USA
17:10-17:30	**Title: Innovation management case study on aircraft certification from mechanical engineering point of view** **Ahmet Feyzioglu,** Marmara University, Turkey

Panel Discussion

Day 2 October 03, 2017

Hampton Events Center B

Keynote Forum

09:30-10:00	**Introduction** **Title: On the modeling and computer simulation of multiphase flow and heat transfer in thermal systems** **Michael Z Podowski,** Rensselaer Polytechnic Institute,USA
10:00-10:30	**Title: A professional life that took a non-linear path** **Mariusz Ziejewski,** North Dakota State University, USA

Panel Discussion

Networking & Refreshment Break 10:30-10:45 @ Foyer Event Center

10:45-11:15	**Title: Digitalization & aerospace: The next era of engineering simulations** **Rick James,** SimuTech Group, USA
11:15-11:45	**Title: Pulsatile flows in biomedical applications** **Michael W Plesniak,** George Washington University, USA
11:45-12:15	**Title: Magnesium based materials -from bio to light weighting** **Jagannathan Sankar,** North Carolina A&T State University, USA
12:15-12:45	**Title: In-Situ manufacturing in route to space exploration** **Fred Barez,** San Jose State University, USA

Panel Discussion

Lunch Break 12:45-13:35 @ Bora Bora

Design & Development of Rockets | Space Engineering | Energy Processing | Mechanics, Dynamics and Controls | Vehicle Systems and Technologies |Bio Engineering & Bio-Mechanics | Design and Modelling of Aircraft and Helicopter Engines | Robotics and Mechatronics | Material Processing

Session Chair: Vishwas Bedekar, Middle Tennessee State University, USA

Session Introduction

13:35–13:55	**Title: The localized method of approximated particular solutions-a mesh less approach for solving multidimensional in compressible Navier-Stokes equations** **D L Young,** National Taiwan University, Taiwan
13:55–14:15	**Tittle: Study of magneto electric effect for sensing and energy harvesting applications** **Vishwas Bedekar,** Middle Tennessee State University, USA

14:15–14:35	**Title: Nonlinear Lyapunov control improved by an extended least squares adaptive feed forward controller and enhanced Luenberger observer** **Peter Heidlauf,** Air Force Institute of Technology, USA **Matthew Cooper,** Air Force Institute of Technology, USA
14:35–14:55	**Title: Development of continualized models for the analytical study of nanoplates in buckling and vibration: principles and perspectives** **Florian Hache,** Florida Atlantic University, USA
14:55–15:15	**Title: Multi-fuel combustion using a dual signal plasma Igniter** **Andrew D Lowery,** Plasma Igniter, LLC, USA
15:15–15:35	**Title: Development of an eccentric blade rotor rotary engine** **Hsiao Kang Ma,** National Taiwan University, Taiwan
15:35–13:55	**Title: Sensitivity analysis for a single-shoe drum brake** **Salwan Waheed,** University of Missouri, USA

Panel Discussion

Networking & Refreshment Break 13:55-16:15 Foyer Event Center

16:15-16:35	**Title: High level modelling and verification of in-cylinder diagnostics using a dual signal plasma Igniter** **Andrew D Lowery,** Plasma Igniter, LLC, USA
16:35–16:55	**Title: Variational method for the calculation of efficient paths with gravitational assist** **Jorge Luis Nisperuza Toledo,** Fundación Universitaria Los Libertadores, Colombia
16:55-17:15	**Title: Size-controlled colloidal synthesis of monodisperse siloxane-based PDMS nanoparticles** **Taejong Paik,** Chung-Ang University, South Korea

Panel Discussion

Day 3 October 04, 2017

Hampton Events Center B

Keynote Forum

09:45-10:15	**Title: Review of the state of the art and new mathematical formulations for solutions of the incompressible Navier-Stokes equations in velocity and pressure derivatives"** **Shaaban Abdallah,** University of Cincinnati, USA
10:15-10:45	**Title: Multiscale dynamic modelling of thin and periodic structures** **Julius Kaplunov,** Keele University, UK
10:45-11:15	**Title: Vibration and stability analysis of high speed rotating annular disks and rings** **Hamid R Hamidzadeh,** Tennessee State University, USA

Panel Discussion

Networking & Refreshment Break 11:15-11:30 @ Foyer Event Center

11:30–12:00	**Title: Fundamental principles of gyroscope theory** **Ryspek Usubamatov,** Kyrgyz State Technical University, Kyrgyzstan
12:00-12:30	**Title: Solving a half-dozen Sherlock Holmes-style mysteries in space** **Tom Logsdon,** University of California, USA
12:30–13:00	**Title: : Natural fiber for automobile and aerospace components design** **Sheldon Q Shi,** University of North Texas, USA

Panel Discussion

Lunch Break 13:00-13:40 @ Bora Bora

13:40–14:10	**Title: Atomization of liquid jets and droplets: Theory and models** **Prashant Khare,** University of Cincinnati, USA
14:10-14:40	**Title: Theory of electromagnetism and gravity modeling earth as a rotating solenoid coil** **Greg Poole,** Industrial Tests Inc, USA
Robotics and Mechatronics | Material Processing | Airship Design & Development | Mechanics, Dynamics and Controls	
Session Chair: Mark N Callender, Middle Tennessee State University, USA	
	Session Introduction
14:40-15:00	**Title: The machining of Haynes 188 nickel based aero space material with ceramic cutting tool** **Abdullah Altin,** Yuzuncu Yıl University, Turkey
15:00-15:20	**Title: First-principles based multiscale multiphysics approaches for integrated computational materials engineering** **Yao Fu,** University of Cincinnati, USA
15:20-15:40	**Title: Investigation of energy consumption on thread machining of austempered ductile cast iron materials** **Hasan Oktem,** Kocaeli University, Turkey
15:40-16:00	**Title: Effect of engine location on flutter speed and frequency of a tapered viscoelastic wing** **Youssef S Matter,** United Arab Emirates University, UAE
Panel Discussion	
Networking & Refreshment Break 16:00-16:20 @ Foyer Event Center	
Video Presentation	
16:20-16:40	**Tittle: Terrestrial or ambient pressure effects on pore shape in solid** **Peng-Sheng Wei,** National Sun Yat-Sen University, Taiwan
Posters Sessions	
16:40-17:00	**Title: Finite deformation of thin-wall composite spheres** **Gidon Weil,** Ben-Gurion University, Israel
Panel Discussion	
Award Cermony & Closing Ceremony	



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