



[Sponsorship]



2024 HisST Busan

The 3rd International Conference on
High-Speed Vehicle Science and Technology

April 14-19, 2024 | Busan, Korea

www.hisst2024.org

About HiSST?

The HiSST committee has the objective to further high-speed vehicle knowledge and experience on an international level, prepare technical papers in all areas of related technology, organize exchange of knowledge, support the global industrial and scientific community, establish meetings and conferences and foster communication and motivation for young engineers and scientists. In 2017, CEAS incorporated the newly formed HiSST Committee into its organization.

Presentations at the Conference, paper reports and interactive discussions cover different aspects of high-speed aerial and space vehicles development including fundamental research and technical solutions in aerodynamics, flight dynamics, operations, materials, and structures.

The first conference was held in Moscow, Russia, in 2028, and the second conference took place in Burges, Belgium, in 2022. The 3rd HiSST will be held in BEXCO, Busan.

Leading specialists from research companies worldwide, including invited experts for providing general lectures, will attend this conference.



**18-month
Cycle**



**500+ from
30 Countries**



**Keynote
Speech**



**120+
Sessions**



**Technical
Tour**

OVERVIEW

Title	The 3 rd International Conference on High-Speed Vehicle Science & Technology (HiSST 2024)
Date	April 14 – 19, 2024
Venue	BEXCO, Busan, Korea
Host	CEAS (The Council of European Aerospace Societies) KSAS (The Korean Society for Aeronautical and Space Sciences) KSPE (Korean Society of Propulsion Engineers)
Organization	Local Organizing Committee of HiSST 2024
Program	Keynote Lectures, Global Review, Oral/Poster Sessions, Welcome Reception, Gala Dinner and Farewell Party. Technical Tour & Cultural Tour
Language	English

PROGRAM (TENTATIVE)

Date	April 14 (Sun)	April 15 (Mon)	April 16 (Tue)	April 17 (Wed)	April 18 (Thu)	April 19 (Fri)
Morning		Welcome / Global Review	Keynote 1	Keynote 3	Keynote 5	Technical & Cultural Tour
		Coffee Break	Concerrent	Concerrent	Concerrent	
		Global Review	Concerrent	Concerrent	Concerrent	
		Lunch	Lunch	Lunch	Lunch	
Afternoon	Registration	Global Review	Keynote 2	Keynote 4	Keynote 6	
		Concerrent	Concerrent	Concerrent	Concerrent	
		Coffee Break	Coffee Break	Coffee Break	Coffee Break	
		Concerrent	Concerrent	Concerrent	Concerrent	
Dinner		Welcome Reception	TC Meeting	Gala Dinner	Farewell Party	

*The program is subject to change.

TECHNICAL TOPICS

- **High-Speed Missions and Vehicles** *including:*
 - Planned and ongoing national and international high-speed vehicle programs and missions
 - Advanced launch vehicle concepts and hypersonic atmospheric flight vehicle concepts including commercial space tourism, intercontinental transport and (re)-entry
 - Design, development and manufacturing of related technologies and components, both for reusable and expendable applications
 - Overall system performance & optimization
 - Design methodologies and engineering models
- **Propulsion Systems and Components** *including rocket, ramjet, dual mode ramjet, scramjet, rocket and turbine combined cycles, detonation engines, electric propulsion and other advanced propulsion systems addressing:*
 - Advanced cycles & concepts including plasma assisted combustion techniques covering full Mach range with application to hypersonic regimes
 - System & component performance, development & manufacturing: inlets, isolators, combustors, injectors, ignition, flame holding, nozzles...
 - Combustion and mixing processes incl. ignition, flame-out, instabilities...
 - Airframe interaction and integration
 - Conventional, cryogenic & alternative fuels, additives, catalysis
 - Propulsion and fuel (sub)systems: feed-lines, pumps, tanks....
 - Advanced computational techniques, CFD & engineering models
- **Thermal and Energy Management Systems** *for vehicle, subsystems, and payload, including sources, conversation and distribution systems addressing:*
 - Thermal protection, heat exchangers, cooling, coating & ablative systems
 - Active and Passive systems
 - System & component performance, development & manufacturing
 - On-board power generation and environmental control
 - Design methodologies, engineering models and advanced computational techniques
- **Guidance & Control Systems** *including flight mechanics, guidance, navigation, routing, trajectory optimization, operations research, sensors, actuators, controllers and algorithms, and health monitoring addressing:*
 - Flight control and trajectory optimization techniques
 - Health monitoring and management, fault detection isolation and recovery, health and usage monitoring systems
 - System & component performance, development & manufacturing
 - Advanced computational techniques, CFD & engineering models
- **Materials and Structures** *for vehicle and all subsystems covering:*
 - Metallic & non-metallic materials for hot and cooled structures and thermal protection systems
 - Active/functional materials
 - Hot, cold and integrated structural architectures incl. conformal layouts
 - Quality control, damage tolerance, structural health monitoring and survivability
 - Materials manufacturing and processing
 - Advanced modelling & computational techniques

- **High-Speed Aerodynamics and Aerothermodynamics** *with application to hypersonic regimes covering full Mach range from take-off, cruise and (re)-entry including:*
 - Numerical and experimental studies including aero-thermodynamics, stability-transition-turbulence, MHD, gas physics and chemistry, radiation physics, destructive re-entry
 - Numerical and experimental thermal studies incl. passive and active heat transfer, regenerative, transpiration, ablation, pyrolysis, endothermic decomposition...
 - Advanced modelling & computational techniques: development and validation
 - Multi-disciplinary techniques and models: fluid-structure interaction, conjugate heat transfer, CFD/flexible and rigid body dynamics...

- **Testing & Evaluation** *covering:*
 - Ground and in-flight test facilities, flight test operations and simulations
 - Diagnostics and data systems
 - Scale limitations and facility effects
 - Validation and verification
 - Facility modelling & simulation

- **Operations and Environment** *including:*
 - Economic and market analysis incl. cost modelling
 - Regulatory, certification, operation, maintenance, health & safety issues: on-ground and in-flight
 - Environmental effects including sonic boom, noise and emissions
 - Infrastructure and traffic management

- **Hypersonic Fundamentals and History** *including:*
 - Theoretical and analytical studies including aero-thermodynamics, stability-transition-turbulence, SWBLI, MHD, gas physics and chemistry, radiation physics, fluid-structure interaction and destructive re-entry
 - Theoretical and analytical thermal studies incl. passive and active heat transfer, regenerative, transpiration, ablation, endothermic decomposition...
 - Basic materials science for high temperature and aggressive environment, life-time predictions...
 - Historical aspects, analyses and assessments and lessons learned. Educational initiatives and workforce development activities

SPONSORSHIP OPPORTUNITIES

Category		Value (USD)	Remarks
Sponsorship Package	Platinum	8,000	
	Gold	6,000	
	Silver	4,000	
Social Program	Welcome Reception	4,000	
	Gala Dinner	8,000	
	Coffee Break	2,500	
Exhibition	Standard Booth (3x2m)	2,500	
Sponsorship Items	Advertisement	1,000	1 full page
	Staff T-shirt	2,500	
	Lanyard (Name badge)	4,000	exclusive
	Welcome kit	2,500	exclusive

10% VAT will be charged separately.

SPONSORSHIP PACKAGE

The Sponsorship Packages offer organizations and companies various promotional opportunities prior to and during the 3rd International Conference on High-Speed Vehicle Science & Technology.

PLATINUM	USD 8,000
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- 1 x Complimentary booths or raw spaces (3x2m/one)
- 3 x Complimentary delegate registration including tickets for the Gala Dinner
- Sponsor logo exposure on official website
- Sponsor logo on the website with hyperlink on the sponsor page
- Premier logo positioning on conference promotional materials
- Premier logo positioning on the conference program book / signage
- Special stage announcement at the Opening Ceremony
- Advertising information and products (to be provided by sponsor) in the conference bag.
- 1 full page advertisement (to be provided by sponsor) inside the conference program book.

GOLD	USD 6,000
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- 1 x Complimentary booths or raw spaces (3x2m/one)
- 2 x Complimentary delegate registration including tickets for the Gala Dinner
- Sponsor logo exposure on official website
- Sponsor logo on the website with hyperlink on the sponsor page
- Premier logo positioning on colloquium promotional materials
- Premier logo positioning on the colloquium program book / signage
- Advertising flyers (to be provided by sponsor) in the conference bag.
- 1 full page advertisement (to be provided by sponsor) inside the conference program book.

SILVER

USD 4,000

- 1 x Complimentary booths or raw spaces (3x2m/one)
- 1 x Complimentary delegate registration including tickets for the Gala Dinner
- Sponsor logo exposure on official website
- Sponsor logo on the website with hyperlink on the sponsor page
- Premier logo positioning on colloquium promotional materials
- Premier logo positioning on the colloquium program book / signage
- Half page advertisement (to be provided by sponsor) inside the conference program book.

NOTE:

All applications are accepted on a first come first served basis.

Benefits may be subject to change.

Sponsorship package items may be negotiated. Please contact the Secretariat for more details.

SOCIAL PROGRAM

WELCOME RECEPTION

USD 4,000

Welcome Reception will be held on April 15 (Mon.), 2024 in honor of the participants including speakers and VIPs.

- Company name/logo on the website with hyperlink on the sponsor page
- Company logo on the signage at the Welcome Reception
- Advertisement to be distributed the Welcome Reception (to be provided by sponsor)
- Acknowledgement in the conference program book

GALA DINNER

USD 8,000

The Gala Dinner will be held on April 17 (Wed.), 2024. There will be the ceremony for the outstanding papers during the Gala Dinner.

- Stage announcement by the Master of the Gala Dinner Ceremony
- Company name/logo on the website with hyperlink on the sponsor page
- Company logo on the signage at the Gala Dinner event
- Advertisement to be distributed the Gala Dinner (to be provided by sponsor)
- Acknowledgement in the conference program book
- President of the sponsoring company is invited to the head table.

COFFEE BREAK

USD 2,500

Coffee Break will take place twice a day during the conference. There will be 8 times in total during the conference.

- Company name/logo on the website with hyperlink on the sponsor page
- Company logo on the signage at the Coffee Break
- Advertisement to be distributed at the Coffee Break
- Acknowledgement in the conference program book

SPONSORSHIP ITEMS

Advertisement	USD 1,000
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1 full page advertisement (to be provided by sponsor) on the conference program book

Staff T-shirt	USD 2,500
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HiSST 2024 staffs who meet the participants in person wear T-shirt printed sponsors' logo.

Lanyard (exclusive)	USD 4,000
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Highly visible sponsor logo on the badge lanyard to be produced for distribution to in-person participants.

Welcome Kit (exclusive)	USD 2,500
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Highly visible sponsor logo on the Welcome Kit bag to be produced for distribution to in-person participants.

EXHIBITION

The 3rd International Conference on High-Speed Vehicle Science & Technology exhibition is open to any organizations that wish to promote their experiences, programs, products, and services through commercial and non-commercial booths.

The exhibition will take place in the lobby of BEXCO. An allotment of booths will be on a first come, first served basis. The Organizing Committee of HiSST 2024 reserves the right to rearrange or relocate booths based on the number of booths sold.

EXHIBITION RATE

CATEGORY	PRICE (USD)	REMARKS
Standard Booth	2,500	3m x 2m

A standard booth will be delivered to each exhibitor as follows:

- Size: W 3m x D 2m x H 3m
- Fascia board with organization/company name in standard letter
- Electrical supply for Lighting (1kw)
- 1 reception desk and 2 folding chairs
- 1 electric outlet (2-prong)
- Pytex flooring



EXHIBITOR COMPENSATION

- Two (2) exhibitor badges – valid only for exhibition site
- Company name on signage in the Exhibition Area and on the website
- Acknowledgement in the Program Book

NOTE:

For detail information, HiSST 2024 office will send the exhibition manual.

HOW TO PARTICIPATE IN SPONSORSHIP PROGRAM

① Application

Please complete the Sponsorship Application (attached file or downloaded on the website) and return via email to HiSST 2024 office at your earliest convenience.

② Arrangement

Most of the sponsorship available is directly accepted, but some sponsorship program is limited. Sponsorship booking will be based on a FIRST COME, FIRST SERVED basis. Please ensure your sponsorship acceptance with HiSST 2024 office.

③ Payment

An invoice will be sent to the companies/groups/organizations that submit the Application Form. Upon receipt of the invoice, please make payment by bank transfer. The sponsorship fee should be paid in USD for overseas sponsors. For smooth procedure, please send a copy of remittance form to HiSST 2024 office.

Bank Information

Bank Name/Branch	KOOKMIN BANK
Account Name	HiSST 2024 Organizing Committee
Account No.	284868-11-012867
Swift Code	CZNBKRSEXXX
Bank Address	26, Gukjegeumyung-ro 8-gil, Yeongdeungpo-gu, Seoul, Korea

NOTE:

- Payment by personal check and bank draft will not be accepted.
- **All bank charges must be paid by the remitter.**
- Application may be cancelled if payment is not received by the specified deadline.

SPONSORSHIP APPLICATION

A. Company Information			
Company/Organization			
Website			
Phone Number		Mobile Number	
Email			
Person in charge			
Position		Department	

B. Type of Sponsorship			
Category		Value (USD)	Check
Sponsorship Packages	Platinum	8,000	<input type="checkbox"/>
	Gold	6,000	<input type="checkbox"/>
	Silver	4,000	<input type="checkbox"/>
Social Program	Welcome Reception	4,000	<input type="checkbox"/>
	Gala Dinner	8,000	<input type="checkbox"/>
	Coffee Break	2,500	<input type="checkbox"/>
Exhibition	Standard Booth (3x2m)	2,500	<input type="checkbox"/>
Sponsorship Items	Advertisement	1,000	<input type="checkbox"/>
	Staff T-shirt	2,500	<input type="checkbox"/>
	Lanyard (Name badge)	4,000	<input type="checkbox"/>
	Welcome kit	2,500	<input type="checkbox"/>
Total (USD)			
VAT (10%)			
Grand Total			

We accept the terms and conditions of the Sponsorship Application for HiSST 2024:

Signature & Company Stamp

Date



HiSST 2024 Office

ForceMonster Co., Ltd

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