

| ILASS-Asia 2022, IIT Indore, India                                                                                                                                                                   |       |                                                                                                                                                                                                      |                                                                                                                                                                                                                                                            |                                                                                                                                                                                                         |  |
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| Friday, 28th October                                                                                                                                                                                 |       |                                                                                                                                                                                                      |                                                                                                                                                                                                                                                            |                                                                                                                                                                                                         |  |
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| 18:00                                                                                                                                                                                                | 19:30 | Registration at Kalidas Seminar Hall                                                                                                                                                                 |                                                                                                                                                                                                                                                            |                                                                                                                                                                                                         |  |
| 19:30                                                                                                                                                                                                | 21:30 | Dinner at Carbon Building                                                                                                                                                                            |                                                                                                                                                                                                                                                            |                                                                                                                                                                                                         |  |
|                                                                                                                                                                                                      |       |                                                                                                                                                                                                      |                                                                                                                                                                                                                                                            |                                                                                                                                                                                                         |  |
| Saturday, 29th October                                                                                                                                                                               |       |                                                                                                                                                                                                      |                                                                                                                                                                                                                                                            |                                                                                                                                                                                                         |  |
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| <a href="https://zoom.us/j/95795105568?pwd=UjBLWUxDdzVsWldndXhCR0MxaWpOdz09">https://zoom.us/j/95795105568?pwd=UjBLWUxDdzVsWldndXhCR0MxaWpOdz09</a> , Meeting ID: 957 9510 5568, Passcode: ILASS2022 |       |                                                                                                                                                                                                      |                                                                                                                                                                                                                                                            |                                                                                                                                                                                                         |  |
| 9:00                                                                                                                                                                                                 | 10:00 | Inauguration                                                                                                                                                                                         | Kalidas Seminar hall                                                                                                                                                                                                                                       |                                                                                                                                                                                                         |  |
| 10:00                                                                                                                                                                                                | 10:35 | High Tea                                                                                                                                                                                             |                                                                                                                                                                                                                                                            |                                                                                                                                                                                                         |  |
| 10:35                                                                                                                                                                                                | 11:20 | Plenary Talk 1: Prof. Cameron Tropea, Optical Measurement of Drops in Flows                                                                                                                          | Kalidas Seminar hall                                                                                                                                                                                                                                       |                                                                                                                                                                                                         |  |
|                                                                                                                                                                                                      |       | Chair: Prof. R V Ravikrishna                                                                                                                                                                         |                                                                                                                                                                                                                                                            |                                                                                                                                                                                                         |  |
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| Parallel Sessions:                                                                                                                                                                                   |       | Experimental Atomization-I (Room No. L11)                                                                                                                                                            | Modelling and Computations-I (Room No. L12)                                                                                                                                                                                                                | Applications-I (Room No. L13)                                                                                                                                                                           |  |
|                                                                                                                                                                                                      |       | Chair: Prof. Kirti Chandra Sahu                                                                                                                                                                      | Chair: Prof. Ashok De                                                                                                                                                                                                                                      | Chair: Prof. Anubhav Sinha                                                                                                                                                                              |  |
|                                                                                                                                                                                                      |       | <a href="https://zoom.us/j/98938870447?pwd=VkrRZHVLM2p0aU9kdz09">https://zoom.us/j/98938870447?pwd=VkrRZHVLM2p0aU9kdz09</a> , Meeting ID: 989 3887 0447, Passcode: ILASS2022                         | <a href="https://us06web.zoom.us/j/87448693903?pwd=VjR3NWp0aU9kdz09">https://us06web.zoom.us/j/87448693903?pwd=VjR3NWp0aU9kdz09</a> , Meeting ID: 874 4869 3903, Passcode: ILASS2022                                                                       | <a href="https://us06web.zoom.us/j/82971429651?pwd=OEh0aU9kdz09">https://us06web.zoom.us/j/82971429651?pwd=OEh0aU9kdz09</a> , Meeting ID: 829 7142 9651, Passcode: ILASS2022                            |  |
| 11:20                                                                                                                                                                                                | 11:40 | Dominic Sam Sebastian, Sonu K. Thomas, Yazhini V.I. and T.M. Muruganandam: Primary breakup of liquid jet in supersonic crossflow                                                                     | Nobuyuki Kawahara: Evaluation of ignition characteristics of diesel spray using large eddy simulation                                                                                                                                                      | Naga Balaji Putireddy, Ashish Kumar Vishwakarma and Srikrishna Sahu: Characterization of a Turbulent Spray Puff in a Cough Simulator                                                                    |  |
| 11:40                                                                                                                                                                                                | 12:00 | Ashutosh Jena and Avinash Kumar Agarwal: Spray characterisation of an evaporating liquid spray in a cross flow using a multi-hole injector                                                           | Utkarsha Sonawane and Avinash Kumar Agarwal: A Numerical Study on Spray Characteristics, Mixing and Evaporation of diesel and dimethyl ether under Diesel Engine like Conditions                                                                           | Vignesh Kumar D, Ondrej Cejpek, Jan Jedelsky and Madan Mohan Avulapati: Evaluation of Air Assisted Impinging Jet Atomization for CO2 capture                                                            |  |
| 12:00                                                                                                                                                                                                | 12:20 | Dhananjay Kumar and Avinash Kumar Agarwal: Comparative Assessment of Macroscopic Spray Characteristics for the Direct-Injected Spray of Gasoline, Methanol, and Ethanol in SI Engine-Like Conditions | Ankur Kalwar, Rahul Kumar Singh, Quangkhai Pham, Suhan Park, Sungwook Park and Avinash Kumar Agarwal: Numerical Study of Direct Injection Spray Behavior of Gasoline and Methanol-Gasoline Blends Under Split-Injection Strategy in Engine-Like Conditions | Niraj Kumar, Abhay Mane, Supriya Sarkar, Anand T N C and Shamit Bakshi: Estimation of Mass Flow Rate of Molten Metal through the Melt Delivery Tube in a Gas-atomization System                         |  |
| 12:20                                                                                                                                                                                                | 12:40 | Medipati Chandrasekhar, Deivandren Sivakumar and Govardhan Raghuraman N: Spray characterization study in liquid jet into supersonic cross flow using pulsed laser shadowgraphy                       | Nilojendu Banerjee and Satyanarayanan Seshadri: A Mathematical Approach for prediction of Spray Heat Transfer for Various Textured Cylindrical Surfaces                                                                                                    | Mohamed Nour, Zhe Sun, Hongyu Wang, Mingli Cui, Xuesong Li, David Hung and Min Xu: Influence of Butanol Isomers on Flame Kernel, Late Burn, and PM Emissions of optical SIDI Engine                     |  |
| 12:40                                                                                                                                                                                                | 13:00 | Surendra Soni, Abhishek Gupta, Noorul Huda and Santanu De: Understanding the two-phase mixing pattern inside the twin-fluid atomizer using high-speed visualization                                  | Abhay Mane, Niraj Kumar, Supriya Sarkar, Anand T N C and Shamit Bakshi: Methodology for the Design of Supersonic Annular Gas Nozzle for a Closed-Coupled Gas-Atomization Application                                                                       | Yi-Kai Chih and Wei-Hsin Chen: Effect of feeding reactants with ultrasonic sprays on hydrogen production in an methanol steam reforming process                                                         |  |
|                                                                                                                                                                                                      |       |                                                                                                                                                                                                      |                                                                                                                                                                                                                                                            |                                                                                                                                                                                                         |  |
| 13:00                                                                                                                                                                                                | 14:00 | Lunch                                                                                                                                                                                                | Carbon Building                                                                                                                                                                                                                                            |                                                                                                                                                                                                         |  |
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| 14:00                                                                                                                                                                                                | 14:45 | Plenary Talk 2: Prof. Mahesh Panchagnula: Discovering spatiotemporal structure of sprays through applying tools of data science                                                                      |                                                                                                                                                                                                                                                            |                                                                                                                                                                                                         |  |
|                                                                                                                                                                                                      |       | Chair: Prof. Pramod S Mehta                                                                                                                                                                          |                                                                                                                                                                                                                                                            |                                                                                                                                                                                                         |  |
| 14:45                                                                                                                                                                                                | 15:30 | Plenary Talk 3: Prof. Sungwook Park: Visualization of in-cylinder flow and mixture formation using an optically accessible DISI engine                                                               |                                                                                                                                                                                                                                                            |                                                                                                                                                                                                         |  |
|                                                                                                                                                                                                      |       | Chair: Prof. Nobuyuki Kawahara                                                                                                                                                                       |                                                                                                                                                                                                                                                            |                                                                                                                                                                                                         |  |
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| 15:30                                                                                                                                                                                                | 15:50 | Tea                                                                                                                                                                                                  |                                                                                                                                                                                                                                                            |                                                                                                                                                                                                         |  |
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| Parallel Sessions:                                                                                                                                                                                   |       | Experimental Atomization-II (Room no. L11)                                                                                                                                                           | Modelling and Computations-II (Room no. L12)                                                                                                                                                                                                               | Applications-II (Room no. L13)                                                                                                                                                                          |  |
|                                                                                                                                                                                                      |       | Chair: Prof. Sungwook Park                                                                                                                                                                           | Chair: Prof. Ravikrishna R V                                                                                                                                                                                                                               | Chair: Prof. Mahesh V Panchagnula                                                                                                                                                                       |  |
|                                                                                                                                                                                                      |       | <a href="https://zoom.us/j/98938870447?pwd=VkrRZHVLM2p0aU9kdz09">https://zoom.us/j/98938870447?pwd=VkrRZHVLM2p0aU9kdz09</a> , Meeting ID: 989 3887 0447, Passcode: ILASS2022                         | <a href="https://us06web.zoom.us/j/87448693903?pwd=VjR3NWp0aU9kdz09">https://us06web.zoom.us/j/87448693903?pwd=VjR3NWp0aU9kdz09</a> , Meeting ID: 874 4869 3903, Passcode: ILASS2022                                                                       | <a href="https://us06web.zoom.us/j/82971429651?pwd=OEh0aU9kdz09">https://us06web.zoom.us/j/82971429651?pwd=OEh0aU9kdz09</a> , Meeting ID: 829 7142 9651, Passcode: ILASS2022                            |  |
| 15:50                                                                                                                                                                                                | 16:10 | Venkatesha, C M Ajay, G Hariseetharam and R Surya Prakash: Experimental Investigation of the Influence of Propeller Downwash on the Spray Characteristics in UAAS                                    | Eshan Sharma and Santanu De: Assessment of mixing time-scale models for dilute spray flames using the multiple mapping conditioning approach                                                                                                               | Riddhideep Biswas, Anish Pal, Sourav Sarkar and Achintya Mukhopadhyay: Investigation on Assessment and Mitigation of Risk due to Transmission of Respiratory Droplets inside a Classroom using OpenFOAM |  |
| 16:10                                                                                                                                                                                                | 16:30 | Abhishek Gupta, Surendra Kumar Soni, Noorul Huda and Santanu De: Effect of preheated swirling air on the spray structure of flow blurring atomizer                                                   | Balaji S, Ankur Kumar, Aishwary Pratap and Anubhav Sinha: Surface Breakup of Liquid Jet – Insights from DNS study Surface Breakup of Liquid Jet – Insights from DNS study                                                                                  | Aranyak Chakravarty, Sourav Sarkar, Achintya Mukhopadhyay and Swarnendu Sen: Numerical investigation of water-assisted atomization of molten metal jets for additive manufacturing applications         |  |
| 16:30                                                                                                                                                                                                | 16:50 | Amitesh Kumar Chaudhary and R. V. Ravikrishna: Spray Characterization of Non-Newtonian liquid jets using a Rotary Atomizer                                                                           | Mingyun Xie, Shengqi Wu, Bin Zhang, Xiabin Huang and Hong Liu: Numerical investigation of the bifurcating behavior of liquid jet in crossflow                                                                                                              | Bhuwanesh Kumar, Ravi Kumar and Akhilesh Gupta: Rewetting On Horizontal Tube Surface During Air-Atomized Spray Cooling: An Experimental Investigation                                                   |  |
| 16:50                                                                                                                                                                                                | 17:10 | Vivek Sahu, Aman Bakshi and K. P. Shanmugasadas: Characterization of the swirl velocity field and atomization processes of a gas turbine swirl injectors                                             | Chaoqun Hu, Pengfei Leng, Zhijun Wu, Wenbo Zhao, Chunyu Yang and Liguang Li: Numerical study of the influence of the ambient density on the GDI nozzle internal flow and spray characteristics                                                             | Yueh-Heng Li Yueh-Heng Li, Vadlakonda Sirisha and Chia-Wei Chang: The study of coal particle combustion in oblique-impinging methane/air premixed flames                                                |  |
| 17:10                                                                                                                                                                                                | 17:30 | Zhao Lyu, Zhimu Ye, Hucheng Zhang, Xinqi Qiao and Zhiwei Jin: Experimental Study on Injection and Spay Characteristics of Coal-Derived Liquid Fuel                                                   | Yuanyuan Shen, Chuqiao Wang, Zhixia He and Yanzhi Zhang: Prediction of thermophysical properties of n-dodecane over a wide range of operating conditions                                                                                                   | Saewoong Park, Giyoung Park, Taewon Hwang and Sungwock Lee: Investigation of damage type and PM emission characteristics of DPf for disel vehicle                                                       |  |
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| 18:30                                                                                                                                                                                                | 19:30 | Cultural programme                                                                                                                                                                                   | Summit Hall 1, Radisson Blu Hotel, Indore, Vijaynagar, Indore                                                                                                                                                                                              |                                                                                                                                                                                                         |  |
| 19:30                                                                                                                                                                                                | 21:00 | Dinner                                                                                                                                                                                               | Summit Hall 1, Radisson Blu Hotel, Indore, Vijaynagar, Indore                                                                                                                                                                                              |                                                                                                                                                                                                         |  |

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| Sunday, 30th October                                                                                                                                                                                                                                |              |                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                     |
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| 9:00                                                                                                                                                                                                                                                | 9:45         | <b>Plenary Talk 4: Prof. Norihiko Iki, Development of Ammonia Combustion and Hydrogen Energy Technologies for a Decarbonized Society</b>                                                                                                   |                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                     |              | <b>Chair: Prof. Jan Jedelsky</b>                                                                                                                                                                                                           |                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                     |
| 9:45                                                                                                                                                                                                                                                | 10:30        | <b>Plenary Talk 5: Prof. Kuo-Long Pan: Droplet combustion of multi-component biofuels doped with nanoparticles</b>                                                                                                                         |                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                     |              | <b>Chair: Prof. Cameron Tropea</b>                                                                                                                                                                                                         |                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                     |
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| 10:30                                                                                                                                                                                                                                               | 10:50        | Tea                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                     |
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| <b>Parallel Sessions:</b>                                                                                                                                                                                                                           |              | <b>Experimental Atomization-III (Room No. L11)</b>                                                                                                                                                                                         | <b>Modelling and Computations-III (Room No. L12)</b>                                                                                                                                                                            | <b>Optical Diagnostic Methods (Room No. L13)</b>                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                     |              | <b>Chair: Prof. Pramod S Mehta</b>                                                                                                                                                                                                         | <b>Chair: Prof. Anubhav Sinha</b>                                                                                                                                                                                               | <b>Chair: Prof. B. N. Raghunandan</b>                                                                                                                                                                                                               |
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| 10:50                                                                                                                                                                                                                                               | 11:10        | Vivek K, Kundan Kumar Singh, Aditya Saurabh and Lipika Kabiraj: Liquid-sheet break up characteristics of gel propellant simulant                                                                                                           | Sudipta Saha, Sourav Sarkar and Aranyak Chakravarty: A computational analysis of hydrodynamic instabilities encountered during co-current flow of air over a thin liquid film                                                   | Anurag Gaur and Kaushik Saha: Experiments on Nd: YAG Laser Based Imaging Techniques for Non-Flash Boiling and Flash Boiling Sprays Using Single Hole Gasoline Direct Injection (GDI) System                                                         |
| 11:10                                                                                                                                                                                                                                               | 11:30        | Young Soo Yu and Sungwook Park: Experimental study on the spray structure and nozzle tip wetting with LPDI injector under flash boiling                                                                                                    | Xinyao Lei, Xiaodong Li, Shuai Zhou and Hongjun Liu: Numerical study on atomization and combustion characteristics of multi-jet gas-liquid pintle injector                                                                      | Siddhivinayak Rampurkar, Shirin Patil and Srikrishna Sahu: Liquid Jet Breakup Characterization in a Crossflow Airblast Atomizer by Time-Resolved Fluorescence Imaging Technique                                                                     |
| 11:30                                                                                                                                                                                                                                               | 11:50        | Kaixiang Li, Di Xiao, Shangning Wang, Shuyi Qiu, Xuesong Li and Min Xu: Experimental investigations of nozzle pitch circle impact on tip wetting                                                                                           | Yaquan Sun, Kaushal Nishad, Yongxiang Li, Louis Dreßler and Amsini Sadiki: Investigation of Spray in Cross-flow using Automatic Coupled Volume of Fluid and Lagrangian Particle Tracking within Large Eddy Simulation Framework | Arpit Joglekar, Devendra Deshmukh and Yogeshwar Nath Mishra: Digital In-line Holography and backlight illumination imaging of sprays using levitated droplets                                                                                       |
| 11:50                                                                                                                                                                                                                                               | 12:10        | Yan Lei, Wenbo Jin, Tao Qiu and Chenxi Liu: Experimental study on spray Impingement characteristics of hydrogen / diesel dual fuel                                                                                                         | Chih-Yung Wu and Tien-Chiu Hsu: Numerical modelling of fuel spray autoignition using open source code                                                                                                                           | Zuhaib Nissar, Steven Begg and Oyuna Rybdylova: Development of an Algorithm for Structure Identification and Droplet Distribution Re-construction in Liquid Sprays                                                                                  |
| 12:10                                                                                                                                                                                                                                               | 12:30        | Vikram Kumar, Shanti Mehra, Hardikk Valera and Avinash Kumar Agarwal: Comparative Study of Microscopic Spray Characteristics of Dimethyl Ether (DME) with Diesel in Atmospheric Ambient Conditions                                         | Sandip Dighe, Gautam Khemraj Kshetri, Hrishikesh Gadgil and Kowsik Bodi: Experimental verification of OpenFoam-based simulations of secondary atomization                                                                       | B Surya, Bupesh Kumar R, M S Arun, S N Sridhara and P Nandagopalan: Evolution of Flow patterns on Laminar Jet Impingements Using Deep Learning Image Processing (DLIP)                                                                              |
| 12:30                                                                                                                                                                                                                                               | 12:50        | Surendra Soni and Pankaj Sharadchandra Kolhe: Large-scale flow features in swirl airblast atomization                                                                                                                                      | Kaushal Nishad, Yaquan Sun, Yongxiang Li, Christian Hasse and Amsini Sadiki: Numerical Investigation of Atomization Characteristics of AdBlue Injection in SCR-DeNOx system using VOF-LES                                       | Omer Faruk Atac, Hyunsu Lee and Seoksu Moon: Analyzing Near-nozzle Turbulence Intensity of Fuel Sprays Using X-ray Phase-Contrast Imaging with MHz Frequency                                                                                        |
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| 12:50                                                                                                                                                                                                                                               | 14:00        | Lunch                                                                                                                                                                                                                                      | Carbon Building                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                     |
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| 14:00                                                                                                                                                                                                                                               | 14:45        | <b>Plenary Talk 6: Prof. Fu Qingfei: Unsteady Spray of Liquid Propellants</b>                                                                                                                                                              |                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                     |              | <b>Chair: Prof. B N Raghunandan</b>                                                                                                                                                                                                        |                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                     |
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| <b>Parallel Sessions:</b>                                                                                                                                                                                                                           |              | <b>Cavitation and Flash Boiling-I (Room No. L11)</b>                                                                                                                                                                                       | <b>Atomizer Design-I (Room No. L12)</b>                                                                                                                                                                                         | <b>Bubbles and Micro-explosions (Room No. L13)</b>                                                                                                                                                                                                  |
|                                                                                                                                                                                                                                                     |              | <b>Chair: Prof. Madan Mohan A</b>                                                                                                                                                                                                          | <b>Chair: Prof. Harekrishna Yadav</b>                                                                                                                                                                                           | <b>Chair: Prof. Shamugadas K P</b>                                                                                                                                                                                                                  |
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| 14:45                                                                                                                                                                                                                                               | 15:05        | Dongping Shen, Takashi Miwa, Akira Sou, Yoshitaka Wada, Yoshiharu Ueki and Hideaki Yokohata: Single String Cavitation and Swirling Flow in a Nozzle and a Hollow-Cone Spray                                                                | Anjith Kumar and Prof. Thirumalachari Sundararajan: Influence of swirl number and air flow-rate on the spray characteristics of a micro-channel based rotary atomizer (MCR)                                                     | Jisoo Shin and Sungwook Park: Ammonia flash break-up modeling based on bubble dynamics with correlating analysis of surface tension and pressure force                                                                                              |
| 15:05                                                                                                                                                                                                                                               | 15:25        | Samsu Dlukha Nurcholik, Takashi Miwa, Akira Sou, Mikimasa Kawaguchi, Yuhei Matsumoto, Keiya Nishida and Yoshitaka Wada: Vortex Flow Patterns with Single or Twin String Cavitation in Multi-Hole Mini-Sac Diesel Fuel Injectors and Sprays | Ondřej Cejpek, Milan Malý, Miloslav Bělka, Louis Decanay, Madan Avulapati and Jan Jedelsky: Single Orifice Effervescent Atomizer in simulated Counter–flow Conditions                                                           | Ramajayam D and Vadivukkarasan M: Study of air bubble entrapped droplet evaporation on oil-coated surfaces                                                                                                                                          |
| 15:25                                                                                                                                                                                                                                               | 15:45        | Shangning Wang, Shangze Yang, Yijia Zhang, Xuesong Li, David Hung and Min Xu: Breakup Mechanism of Flash Boiling Sprays Based on Rim Structures                                                                                            | Bikash Mahato, Vikram Ramanan, Ganesh Paramasivan and K. P. Shanmugas: Characterization of primary atomization of like on unlike impinging injectors                                                                            | Abiram Gummala, Himanshu Singh and Madan Mohan Avulapati: A model for prediction of inflight micro explosion in bicomponent fuel droplets                                                                                                           |
| 15:45                                                                                                                                                                                                                                               | 16:05        | Shuyi Qiu, Xiao Di, Xuan Zhang, Shangning Wang, Tongyang Wang, David Hung, Xuesong Li and Min Xu: Experimental investigations of the phase change impacts on flash boiling spray propagations and impingements                             | Meng Ji, Zhijun Wu and Alessandro Ferrari: Study on real time gasoline-water mixture fuel preparation and spray characteristics based on impingement method                                                                     | Vivek K, Tikaram Rajput, Aditya Saurabh and Lipika Kabiraj: Droplet evaporation characteristics of nanobubble-liquid suspensions                                                                                                                    |
|                                                                                                                                                                                                                                                     |              |                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                     |
| 16:05                                                                                                                                                                                                                                               | 16:25        | Tea                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                     |
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| <b>Parallel Sessions:</b>                                                                                                                                                                                                                           |              | <b>Cavitation and Flash Boiling-II, Other topics (Room No. L11)</b>                                                                                                                                                                        | <b>Atomizer Design-II (Room No. L12)</b>                                                                                                                                                                                        | <b>Droplets and Impact (Room No. L13)</b>                                                                                                                                                                                                           |
|                                                                                                                                                                                                                                                     |              | <b>Chair: Prof. Eswara Prasad Korimill</b>                                                                                                                                                                                                 | <b>Chair: Prof. Anand T N C</b>                                                                                                                                                                                                 | <b>Chair: Prof. Devendra Deshmukh</b>                                                                                                                                                                                                               |
|                                                                                                                                                                                                                                                     |              | <a href="https://zoom.us/j/98938870447?pwd=VkRRZHVl. Meeting ID: 989 3887 0447. Passcode: ILASS2022">https://zoom.us/j/98938870447?pwd=VkRRZHVl. Meeting ID: 989 3887 0447. Passcode: ILASS2022</a>                                        | <a href="https://us06web.zoom.us/j/87448693903?pwd=VjR3NV. Meeting ID: 874 4869 3903. Passcode: ILASS2022">https://us06web.zoom.us/j/87448693903?pwd=VjR3NV. Meeting ID: 874 4869 3903. Passcode: ILASS2022</a>                 | <a href="https://us06web.zoom.us/j/82971429651?pwd=OE. Meeting ID: 829 7142 9651. Passcode: ILASS2022">https://us06web.zoom.us/j/82971429651?pwd=OE. Meeting ID: 829 7142 9651. Passcode: ILASS2022</a>                                             |
| 16:25                                                                                                                                                                                                                                               | 16:45        | Mingli Cui, Zhe Sun, Xuesong Li, Min Xu and David Hung: Study on Laminar Combustion Characteristics of Flash Boiling Spray under Cold Start Environment                                                                                    | Donghui Wang and Yong Huang: Semi-empirical Prediction of SMD Spatial Distribution Downstream of Swirl cups at Different Air Pressures                                                                                          | Arshdeep Singh, Srikrishna Sahu and Dalton Maurya: Influence of Adjacent Droplet-plume Interaction on Spray Characteristics in Slinger Atomizers                                                                                                    |
| 16:45                                                                                                                                                                                                                                               | 17:05        | Chen Li, Zhixia He, Genmiao Guo and Wei Guan: Investigation of string cavitation and air ingestion during injection duration in the scaled-up diesel injector nozzle                                                                       | Tianhao Pu, Shengqi Wu, Mingyun Xie and Yanshuai Pang: Temperature effect on the breakup characteristics of ultra-high-pressure spray of a single-hole injector                                                                 | Vishal Jagadale, Devashish Chorey, Yogeshwarmath Mishra, Mats Andersson, Dag Hanstorp and Devendra Deshmukh: Laser induced breakdown in Acoustically Levitated Fuel Droplets                                                                        |
| 17:05                                                                                                                                                                                                                                               | 17:25        | Bihe Hu, Jianquan Wang, Zhixia He, Chen Li and Genmiao Guo: Cavitation flow and spray characteristics of gasoline-diesel hybrid fuels in the nozzle of a high-pressure common-rail injector                                                | Mohammed Asad Khan Khan, Hrishikesh Gadgil and Sudarshan Kumar: Development and characterization of self-aspirating liquid fuel spray ejector for microcombustion applications                                                  | Gourav Parmar, Vignesh Kumar D, Jan Jedelsky and Madan Mohan Avulapati: Experimental studies on effect of neighbouring droplets on evaporation of aqueous ammonia and Monoethanolamine (MEA) droplets                                               |
| 17:25                                                                                                                                                                                                                                               | 17:45        | Natsuha Okami, Akira Sou and Toshiyuki Saito: Prediction of Cavitation Erosion in Diesel Fuel Injector                                                                                                                                     | Sonu Kumar and Saptarshi Basu: Geometrical Sensitiveness of a High Shear Injector Over Spray Flow Field: Mean and Dynamical characteristics                                                                                     | Xiaoyuan Yang, Bingyao Huang, Yi Zhang and Yuyang Li: Characterizing sputtering behaviors in water/ethanol binary droplet impact on a heated plate                                                                                                  |
| 17:45                                                                                                                                                                                                                                               | 18:05        | Bingyao Huang, Xiaoyuan Yang, Yi Zhang, Haodong Zhang, Wei Li and Yuyang Li: Exploring combustion and atomization characteristics of DMMn and DMMn/ethanol binary droplets: Influence of boiling point difference and light component      | Swapnil Soni and Avishek Ranjan: Electromagnetically driven Jet in Liquid Metal Electrode                                                                                                                                       | Quangkhai Pham, Mengzhao Chang, Byungchul Choi, Sungwook Park, Avinash Kumar Agarwal and Suhan Park: Visualization and analysis of CNG wall-impingement spray characteristics under various injection pressures and impingement geometry conditions |
| 18:05                                                                                                                                                                                                                                               | 18:25        | Kirti Chandra Sahu: Fragmentation and size distribution of raindrops in airstreams                                                                                                                                                         | Jacob Koshy Mulamootil, M Manish, Boggavarapu Prasad and R V Ravikrishna: Insights to the Near-nozzle Flow Characteristics of Pressure Swirl Atomizers used in Aero Engines                                                     | Tinglan Tang, Tai Jin and Gaofeng Wang: Numerical study on splash of oblique hollow droplet impact on a liquid film                                                                                                                                 |
| <a href="https://zoom.us/j/95795105568?pwd=UIBLWUXDdzVsWldndXhCR0MxaWpOdz09. Meeting ID: 957 9510 5568. Passcode: ILASS2022">https://zoom.us/j/95795105568?pwd=UIBLWUXDdzVsWldndXhCR0MxaWpOdz09. Meeting ID: 957 9510 5568. Passcode: ILASS2022</a> |              |                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                     |
| 18:25                                                                                                                                                                                                                                               | 19:00        | <b>Valedictory session</b>                                                                                                                                                                                                                 | Kalidas Seminar Hall                                                                                                                                                                                                            |                                                                                                                                                                                                                                                     |
| 19:00                                                                                                                                                                                                                                               | 21:00        | Dinner                                                                                                                                                                                                                                     | Carbon Building                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                     |
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