

5th International Conference on

BIOFUELS AND BIOENERGY

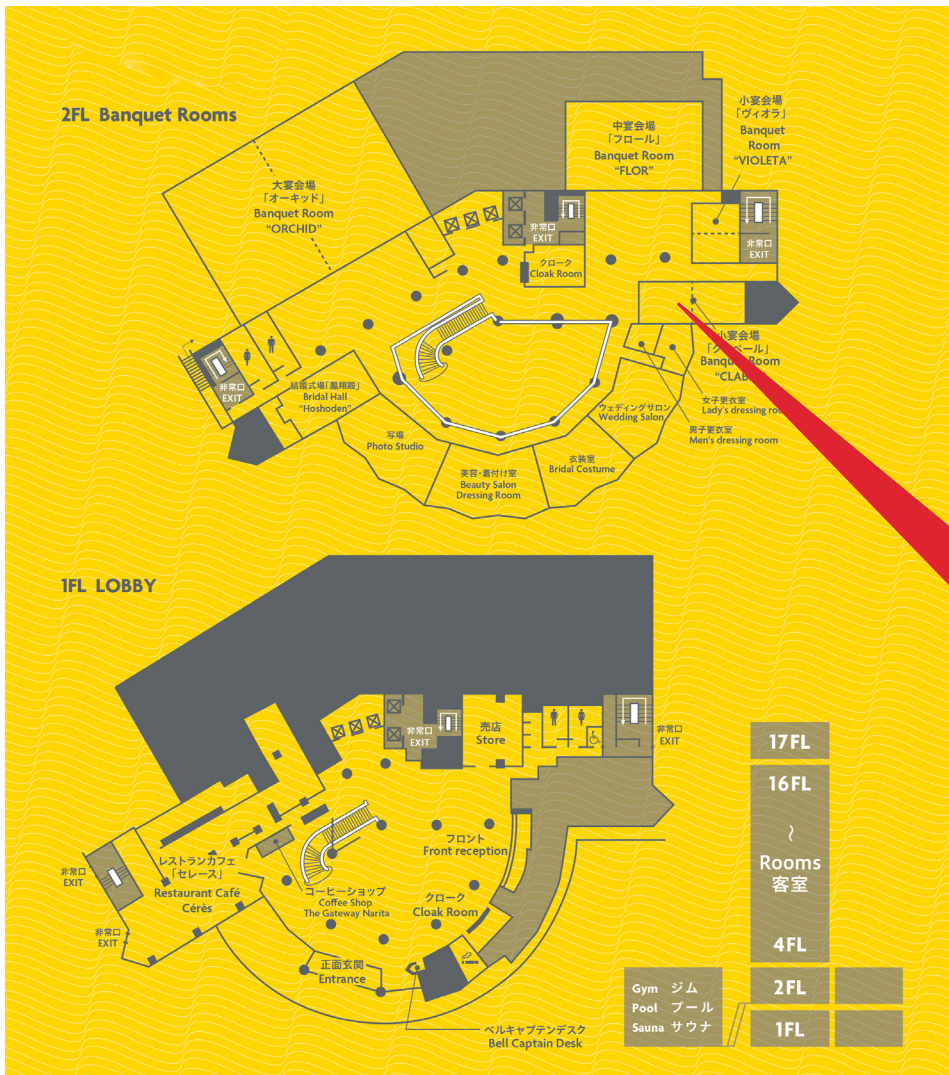
October 21-22, 2024 | Tokyo, Japan



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Floor Map



**Conference
Hall**

Wi-Fi Details:



SSID : IHG One Rewards Free WIFI

Password: not required but log in page will be coming up, and put 1311 into the access code and submit

Scientific Program

5th International Conference on

Biofuels and Bioenergy

Day 1 - 21 October, 2024

Meeting Hall @ Clavel

08.00-8.45 Registrations

08.45-09.00 Introduction

Keynote Presentations

09.00-09.40 Search for Simple Surrogates to Represent Terpenes Biofuels in Combustion Models
Philippe Dagaut, Centre National de la Recherche Scientifique, France

09.40-10.20 Risk Evaluation for Various Biofuels using Highly Sensitive Calorimeters (Review)
Hiroshi Koseki, Chiba Institute of Science, Japan

Networking & Refreshments- 10.20-10.50 @ Orchid Foyer, and Iris

10.50-11.30 Strain Dynamics of Contaminating Bacteria Modulate the Yield of Ethanol Biorefineries
Shilpa Garg, Technical University of Denmark, Denmark

Oral Presentations

Session Chair **Philippe Dagaut, Centre National de la Recherche Scientifique, France**

Session Chair **Jeffrey S. Cross, Institute of Science Tokyo, Japan**

Sessions: Bioeconomy | Biogas | MSW Methane gas production upgrading | Production of Biofuels | Algae biofuels | Bioenergy | Bioenergy Conversion | Wastewater Management

11.30-12.00 Development of EGAO (Ethanol-based Global Agricultural Optimization) Technology and its Application for the Sustainable Agriculture
Motoaki Seki, RIKEN Center for Sustainable Resource Science, Japan

12.00-12.30 Hydrogen Gas Permeation of PdCu Membranes of Various Thicknesses
Jeffrey S. Cross, Institute of Science Tokyo, Japan

12.30 - 13.00 Production of Biofuels Through HTL Process using Waste Compounds
Carlos Sainz, Rey Juan Carlos University, Spain

Group Photo- 13.00-13.10

Lunch- 13.10-14.00 @ Restaurant Cafe Ceres

14.00-14.30 Design of a High Added-Value Product Biorefinery based on Microalgae Biomass
Alejandro Piera, Rey Juan Carlos University, Spain

14.30-15.00 Catalytic Pyrolysis of Walnut Shell Waste
Saimatun Nisa, Indian Institute of Technology Jammu, India

15.00-15.30 Electrocatalytic Activity of Microbial Electrolysis Cells for Biohydrogen Production using High Conductivity Electrodes during High Strength Wastewater Treatment
Posadas-Hernández Manuel, The University of Sciences and Arts of Chiapas (UNICACH), Mexico

15.30-16.00 Plant Microbial Fuel Cells for Green Remediation, Sustainable Development and Net Zero Emissions
Chung-Yu Guan, National Taiwan University, Taiwan

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Networking & Refreshments- 16.00-16.30 @ Orchid Foyer, and Iris

16.30 - 17.00 Preparation of CaO@CeO₂ Solid Base Catalysts used for Biodiesel Production
Wilasinee Kingkam, Thailand Institute of Nuclear Technology, Thailand

17.00 - 17.30 Enhanced Anaerobic Co-Digestion of Cattle Manure with Food Waste and Pig Manure: Statistical Optimization of Pretreatment Condition and Substrate Mixture Ratio
Sangyeol Jo, Chosun University, South Korea

Poster Presentation

PP001 Physicochemical Properties of Biochars Made from Different Feedstocks and their Biogas Production Performances
Choi Yong-Keun & Saerom Park, Choilab Inc, South Korea

Panel Discussion @ 17.45- 18.15

PANEL SESSION: Biofuels as a sustainable solution: Reducing Waste, Feeding Energy

"Topics:

"Biorefinery as a Process to Get Chemical Platform Compounds from Agricultural Wastes"

17.45 - 18.15 **"Biomass as a Sustainable Alternative Resource for Livestock Feed"**

"Bioenergy with Carbon Capture and Storage"

"Biofuels and Carbon Footprint Reduction"

"Circular Economy in Biofuels"

"Technological Innovations in Biofuel Production"

Philippe Dagaut, Centre National de la Recherche Scientifique, France

Shilpa Garg, Technical University of Denmark, Denmark

Panelists: **Carlos Alberto Guerrero Fajardo, Universidad Nacional de Colombia, Colombia**

Surendra Singh Kachhwaha, Pandit Deendayal Energy University, India

Day 1 Concludes followed by Certificate Felicitation

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Day 2 - 22 October, 2024

Meeting Hall @ Clavel

Keynote Presentations

10.00 - 10.40 Optimization of Hydrothermal Valorization of Coffee Cherry: Analysis of the Impact of Biomass/Water Ratio, Particle Size, Stirring, and Catalysts on Chemical Platforms and Biochar Production

Carlos Alberto Guerrero Fajardo, Universidad Nacional de Colombia, Colombia

10.40 - 11.20 Industrial Scale Biodiesel Production from Waste Cooking Oil using Hydrodynamic Cavitation

Surendra Singh Kachhwaha, Pandit Deendayal Energy University, India

Networking & Refreshments (11.20 - 11.40) @ Orchid Foyer, and Iris

Oral Presentations

Session Chair **Carlos Alberto Guerrero Fajardo, Universidad Nacional de Colombia, Colombia**

Session Chair **Surendra Singh Kachhwaha, Pandit Deendayal Energy University, India**

Sessions: Biogas | Biodiesel | Bioenergy with carbon capture and storage | Biomass Technology | Production of Biofuels | Sustainable Energy | Wastewater Management | Advanced Biofuels

11.40 - 12.10 Modeling of an Oxyfuel Combustion of Sewage Sludge with Subsequent CO₂ Utilization in a P2X Process

Szymon Herdzik, Technical University of Munich, Germany

12.10 - 12.40 EcoDiesel

Praven Allopi, University KZN-Westville Campus, South Africa

12.40 - 13.10 Magnetite Addition Reduces Nitrite Requirement for Efficient Anaerobic Ammonium Oxidation by Facilitating Mutualism of ANAMMOX and FEAMMOX Bacteria

Rahul Kadam, Chosun University, South Korea

Lunch- 13.10 - 14.00 @ Restaurant Cafe Ceres

14.00 - 14.30 Experimental and Numerical Study of Biomass Fuels Reforming with a Fast Start-Up Reactor using Pt/Al₂O₃ Monolithic Plate Catalyst

Xiaoyi Ding, Xi'an University of Technology, China

14.30 - 15.00 Accelerating the Energy Transition: Policy and Regulatory Frameworks for Sustainable Energy Systems

Mohsen Alamooti, Middle East Mines Industries Development Holding Company (MIDHCO), Iran

15.00 - 15.30 Experimental and Modeling Investigation of Bio-Oil and Waste Cooking Oil Co-processing for Aviation Fuels

Melba Domes Denson, Central Luzon State University, Philippines

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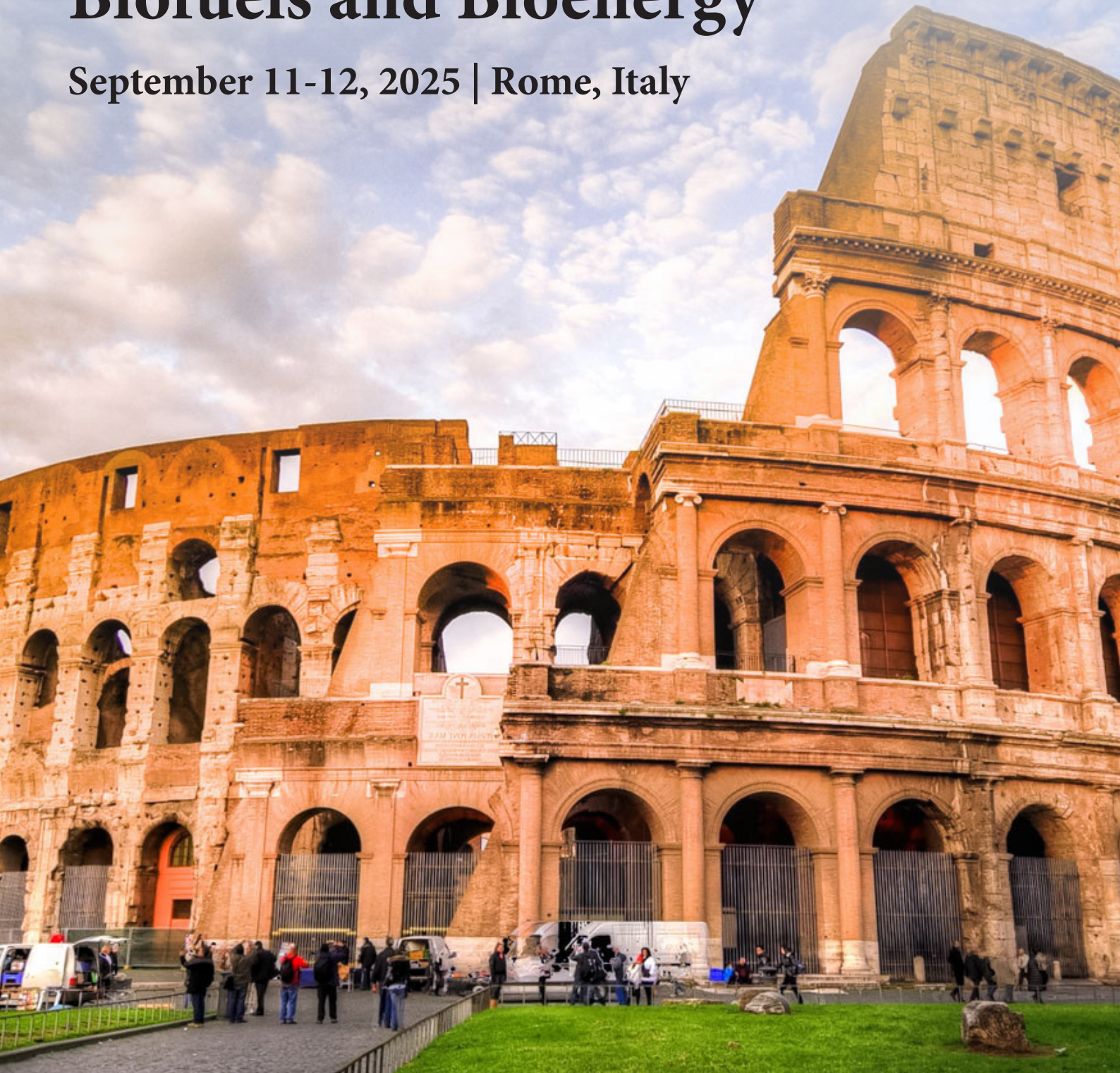
15.30 - 16.00	Experimental Investigation on the Performance and Exhaust Emission of a Direct Injection Diesel Engine Running on Fuel Additives with Variable Loads Faisal Mahroogi, Islamic University of Madinah, Saudi Arabia
Video Presentation	
VP-01	Influence of FAME Raw Materials on its Aging Process Paweł Grabowski, Warsaw University of Technology, Poland
VP-02	Influence of Factors on The Oxidative Stability of Fuels Obtained in Thermolysis of Waste Plastics Oliwia Liberek, Warsaw University of Technology, Poland
VP-03	Biotransformation of Aromatic Biomass Waste into Biofuel using Oleaginous Yeast Shivani Chaturvedi, CSIR-Central Institute of Medicinal and Aromatic Plants, India
VP-04	Wastewater Management and Public Health Risks, Prompting Algae-Based Treatment Systems Sangeeta Chaturvedi, Dr. B.R. Ambedkar University Agra, India
VP-05	Optimization of Vacuum Pressure Swing Adsorption Technology for Biogas Upgrading Mohammad Azadi Tabar, Vrije Universiteit Brussel, Belgium
Awards & Closing Ceremony	
Networking & Refreshments (16.30 - 17.00) @ Orchid Foyer, and Iris	
End of Day 2	

Bookmark The Dates

6th International Conference on

Biofuels and Bioenergy

September 11-12, 2025 | Rome, Italy



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