BIO ENERGY
Renewing Energy-Restoring Earth

PRISM

2nd INTERNATIONAL CONFERENCE ON

BIOENERGY AND BIOFUELS

RENEWING ENERGY–RESTORING EARTH

OCTOBER 19–21, 2026

HOLIDAY INN SINGAPORE ORCHARD CITY CENTRE, SINGAPORE



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INSTRUCTIONS FOR SPEAKERS

1. **Plenary Talks:** Plenary speakers will be allotted 25 minutes to present their results, followed by a 5 minutes discussion period.
2. **Keynote Talks:** Keynote speakers will be allotted 20 minutes to present their results, followed by a 5 minutes discussion period.
3. **Invited Talks:** Invited speakers will be allotted 17 minutes to present their results, followed by a 3-minute discussion period.
4. Please do not exceed the allotted time slot.
5. Speakers should have their presentations saved on a USB memory stick.
6. It is suggested to email a copy of the presentations to us as back up.
7. Please prepare the presentation in PPT files, PDF is not recommended.
8. **Basic AV setup will be provided:** laser pointer, cordless mike, desktop mike, sound system.
9. Laptops equipped with Windows 10, Office 2010 Pro English (Word, Powerpoint, Excel) and Adobe Reader are provided.
10. If your presentation files contain movies, please make sure that they are well formatted and connected to the main files. You may check your slides during the breaks.
11. Projectors are equipped with standard VGA connection ports. Mac users should bring their own adapter cord.
12. Please re-check this program prior to the conference to confirm if any changes have been made to your session.
13. Conference volunteers will move the mic during Q&A. Audience with questions may raise hand to receive the mic.

INSTRUCTIONS FOR VIRTUAL PRESENTATION

SPEAKER ZOOM GUIDELINES

How to Participate in a Zoom Meeting?

If you have trouble logging in to Zoom or any technical issues, please write to us at **sushma.kl@bioenergyconferences.com or Call Us +61 426926027**

Join a Meeting

- Join a meeting by clicking on a Zoom link recevied from the organizers.
- Follow the prompts to download and run Zoom application
- Enter the meeting ID if prompted
- Click to join the audio.
- When you are in the meeting, click on the Start Video button to start your video.

If you already have Zoom software installed: Open the Zoom platform, click 'join' and enter the meeting ID and password.

Mute/Unmute & Audio Settings

You can mute and unmute your microphone. The host also can mute you. We recommend using a headset and/or micro-phone as it will lead to better sound quality than using your computer audio. Turn off all sound notifications on your device. Note: During the presentation we will unmute everyone except the speaker and the chairs.

Screen Share

You will be allowed to share your screen during your presentation. Your computer screen will become visible to all the participants once you start sharing your screen. Please close all other applications on your computer so that notifications do not appear during your presentation. Keep the PowerPoint slide open on your system before you click the 'Share Screen' button. You are recommen ded to share the specific PowerPoint slide and not your desktop.

Presentation Timings

Please note that all the timings mentioned in the program are as per the Singapore time zone (GMT+8). Do ensure that you check the time difference well in advance and join the meeting at least 30 minutes prior to your scheduled presentation time. If you need us to tell the specific time slot for your presentation (in local time zone), do let us know. (or) use world time buddy.com for the accurate time zone.

CONFERENCE CHAIR



BLAKE A. SIMMONS

Division Director
Biological Systems and Engineering Division
Lawrence Berkeley National Laboratory, USA

Dr. Blake A. Simmons is the Director of the Biological Systems and Engineering Division at Lawrence Berkeley National Laboratory (biosciences.lbl.gov). Dr. Simmons also serves as the Chief Science and Technology Officer and Vice-President of the Deconstruction Division at the Joint BioEnergy Institute (www.jbei.org), a DOE Office of Science funded project tasked with the development and realization of advanced biofuels and bioproducts produced from sustainable, non-food lignocellulosic biomass. After spending 15 years at Sandia National Laboratories, he joined Lawrence Berkeley National Laboratory. He has over 400 publications and holds more than 50 patents.

CONFERENCE CO-CHAIR



GILLIAN GOH K. H.

Scientist, Principal Investigator
A*STAR, Singapore

Dr. Gillian Goh is currently a Scientist and Principal Investigator at Agency for Science, Technology and Research (A*STAR), Institute of Sustainability for Chemicals, Energy and Environment (ISCE2), Singapore. She was awarded the International Relations A*STAR (Singapore), Commonwealth Scientific and Industrial Research Organization CSIRO (Australia) Research Industry Partnership Program grant, the 2nd and 3rd National Super Computing Centre Young Investigator Seed project (NSCC YISP) in 2025 and 2026 respectively to work on cost effective and scalable low carbon technologies to produce synthetic fuels and chemicals from waste upcycling. She authored 8 patents and technology disclosures in the field of waste to fuels and chemicals. She graduated from NTU Chemistry and Biological Chemistry with a specialization in medicinal chemistry (2016) and a Ph.D. in Chemistry and Biological Chemistry (2021).

DAY–1, OCTOBER 19, 2026

09:00–09:15 **Registrations**

09:15–09:30 **Opening, Welcome Note by Conference Chair Dr. Blake A. Simmons**

PLENARY TALKS

Session Chair : Blake A. Simmons, Lawrence Berkeley National Laboratory, USA

09:30–10:00 **Plenary Talk:** Next-Generation Algal Biorefinery: Recent Developments and Emerging Opportunities
Pau-Loke Show, UCSI University, Malaysia

10:00–10:30 **Plenary Talk:** Sustainable Fuels and Chemicals from Waste
Gillian Goh, A* STAR, Institute of Sustainability for Chemicals, Energy and Environment, ISCE2, Singapore

10:30–11:00 **Plenary Talk:** Flying the Future: Advances in Avistion Fuels at the Joint BioEnergy Institute
Blake A. Simmons, Lawrence Berkeley National Laboratory, USA

11:00–11:30 **COFFEE BREAK**

Session : Biofuels for Transportation: Powering a Low-Carbon Future

Session Chair : James Little, Little Consulting, Singapore

11:30–11:55 **Keynote Talk:** Liquid Triphasic System for Biofuels Production from Microalgae Resource
Chew Kit Wayne, United Arab Emirates University, Al Ain, Abu Dhabi, United Arab Emirates

11:55–12:20 **Keynote Talk:** Biomass Gasification and Synthesis of Green Hydrogen-Based Fuels
Ming Zhao, Tsinghua University, China

12:20–12:40 **Invited Talk:** Current Status and the Challenges of the Production of Sustainable Aviation Fuels (SAF)
Arnaldo Cesar da Silva Walter, University of Campinas, Brazil

12:40–13:00 **Invited Talk:** A Solvent-Mediated Biocatalysis for Improved Lignin Conversion in One-Pot Design: Effect of Aprotic and Protic Solvents on Multicopper Oxidoreductase
Rokesh Radhakrishnan, Galgotias University, India

13:00–14:00 **LUNCH BREAK**

Session Chairs : Chew Kit Wayne, United Arab Emirates University, Al Ain, Abu Dhabi United Arab Emirates
Rokesh Radhakrishnan, Galgotias University, India

14:00–14:25 **Keynote Talk:** Biofuels for Transportation: From Innovation to Implementation
Derek Wong Sun Soon, Surbana Jurong Infrastructure Pte. Ltd, Singapore

14:25–14:45 **Invited Talk:** Engineering Crops to Replace Fossil Carbon
Karine Chenu, The University of Queensland, Australia

14:45–15:05 **Invited Talk:** SAF Technology Options: Current Status, Learnings, Choices and Implementation
Tine Høj Andersen, Topsoe, Denmark

15:05-15:25	**Invited Talk:** Building a Circular Bioeconomy Ecosystem **Mary Blanchard,** Wisconsin Energy Institute Madison, USA
15:25-16:00	**COFFEE BREAK**
16:00-16:20	**Invited Talk:** Breakthrough Production Technology for Sustainable Aviation Fuel (SAF) **Tat Chuan Goh,** Aether Fuels, Singapore
16:20-16:40	**Invited Talk:** Success Stories of Unilever Replacing Fossil Fuel with BioMethane & Upcoming Fossil Fuel Replacement Projects for Toyota & Others **Raghunath K R,** Asian Biogas & Biofuels Association, Singapore
16:40-17:00	**Invited Talk:** Interpretable Machine Learning for Environmental Fate: From Small Molecules to Polymers **Huichun (Judy) Zhang,** Case Western Reserve University, USA
17:00-17:20	**Invited Talk:** Asia Biofuels Development and Outlook **Wei Jun Chua,** S&P Global, Singapore
17:30 Onwards	**Networking Cocktails**

DAY–2, OCTOBER 20, 2026

Session: Biomass to Bioenergy: Enabling a Circular Economy

Session Chair: Mary Blanchard, Wisconsin Energy Institute Madison, USA

10:00–10:30 **Plenary Talk:** Biofuels Reimagined: From Biomass and Waste to the Fuels of Tomorrow
Rafael Luque, ECOTEC University, Ecuador

10:30–10:55 **Keynote Talk:** Unlocking a Biomethane Industry in Australia
Erik Vandenberg, Growth & Energy Transition Verbrec Ltd, Australia

10:55–11:15 **Invited Talk:** From Sugars to Sustainable Aviation Fuel Precursors: Building an Escherichia Coli Cell Factory for High-Level Free Fatty Acid Production
Sung Kuk Lee, Ulsan National Institute of Science and Technology, South Korea

11:15–11:35 **Invited Talk:** Abiotic and Algal Biocathodes in Mediator-Assisted Microbial Desalination for Brackish Water Treatment and Bioenergy Recovery
Sandhya Prakash, National Institute of Technology, India

11:35–12:05 **COFFEE BREAK**

Moderator : Gillian Goh, A* STAR, Institute of Sustainability for Chemicals, Energy and Environment, ISCE2, Singapore

Panel Discussion : Repurposing for Energy Transition and the Next-Gen Biofuel Systems

12:05–13:05
Panelist : Rafael Luque, ECOTEC University, Ecuador
Panelist : Tat Chuan Goh, Aether Fuels, Singapore
Panelist : Arnaldo Cesar da Silva Walter, University of Campinas, Brazil
Panelist : Jenson Ong, S&P Global Energy, Singapore
Panelist : Edmund Siau, GenZero, Singapore

13:05–14:15 **LUNCH BREAK**

Session : Innovative Biomass Solutions for Clean Energy

Session Chair : Sandhya Prakash, National Institute of Technology, India

14:15–14:35 **Invited Talk:** Evolution of Energy Amid Disruptions to Trade and Geopolitics
Annette Hugh, S&P Global Energy, Singapore

14:35–14:55 **Invited Talk:** Energy Security Prompts Accelerated Diversification into Biofuel Alternatives
Jenson Ong, S&P Global Energy, Singapore

14:55–15:15 **Invited Talk:** You Can't Drill a Farmer: The Human Side of Innovative Biomass Solutions
James Little, Little Consulting, Singapore

15:15–15:35 **Invited Talk:** Creating Value from Electrons and Pollution: Integrated Electrochemical and Biological Platforms for Biomanufacturing
Justin Panich, Lawrence Berkeley National Laboratory, USA

15:35–16:55 **Invited Talk:** Converting Palm Biomass Waste to Methane
Hans J. Hvide, Straits Bio-LNG Pte Ltd, Singapore

15:55–16:15 **Invited Talk:** Calcium Mediated Strategy for Rapid Acidogenic Sludge Formation with Simultaneous Improvement in Biohydrogen Production
Rokesh Radhakrishnan, Galgotias University, India

16:15-16:45	**COFFEE BREAK**
	Moderator : Ming Zhao, Tsinghua University, China
	Panel Discussion : Biomass Supply Chains: From Farm to Fuel
16:45-17:45	**Panelist : Rajesh Sundaresan,** Carbon Impact Capital Pte. Ltd, Singapore **Panelist : Hans J. Hvide,** Straits Bio-LNG Pte Ltd, Singapore **Panelist : Erik Vandenberg,** Growth & Energy Transition Verbrec Ltd, Australia **Panelist : James Little,** Little Consulting, Singapore **Panelist : Aniq Ahsan,** MOYA Analytics, Singapore
17:50	**Closing**

DAY–3, OCTOBER 21, 2026 (VIRTUAL)

Virtual Presentations, Singapore Time Zone (GMT+8)

Session: Sustainable Bioenergy & Biomass Utilization

09:30–09:55	**Keynote Talk:** The Impact of Metabolomics Analysis on Bioenergy Research **Edward Baidoo,** Lawrence Berkeley National Laboratory, USA
09:55–10:15	**Invited Talk:** Growing Kelp in Alaska for Potential Biomass Production **Michael Stekoll,** University of Alaska Fairbanks, USA
10:15–10:35	**Invited Talk:** Liquid Chromatography and Mass Spectrometry Quantification of Nitrogenous Residues from Volatile Protic Amine Pretreatment of Lignocellulosic Biomass **Emine Akyuz Turumtay,** Lawrence Berkeley National Laboratory, USA
10:35–10:55	**Invited Talk:** Novel Approach of Integrating Bioenergy for Sustainability and Productivity in the Dairy Industry **Jayant Keskar,** Enpro Envirotech Pty Ltd, Australia
10:55–11:15	**Invited Talk:** Beyond Green Energy: The Role of ESG Disclosure in Strengthening Transparency and Sustainable Value Creation in the Bioenergy Sector **Intan Salwani Mohamed,** Universiti Teknologi MARA (UiTM), Malaysia
11:15–11:35	**Invited Talk:** Unlocking Australia's SAF Potential: Feedstocks, Regulation and Pathways to APAC Markets **Miro Moss,** Haskoning, Australia
11:35–11:55	**Invited Talk:** Integrating Electro-Assisted Anaerobic Digestion, Combined Heat and Power, and Thermal Energy Storage: Taiwan and Sweden Scenarios **Suraj Negi,** National Taiwan University, KTH Royal Institute of Technology, Sweden
11:55–12:15	**Invited Talk:** Sustainable Cultivation of Microalgae Biomass for Bioenergy Production **Angela Paul Peter,** Taylor's University, Malaysia
12:15–12:35	**Invited Talk:** Microalgae Biotechnology: Deciphering Artificial Intelligence-Enabled Image-Based Digitalization of Microalgae Classification **Kuan Shiong Khoo,** Yuan Ze University, Taiwan
12:40	**Closing**

NOTES

PRISM

PROFESSIONAL CONFERENCE ORGANIZERS

Prism Scientific Services Pty Ltd., a premier conference organizer, envisions a sustainable future for the Bioenergy. Our goal is to unite experts and stakeholders through conferences, fostering collaboration and advancing sustainable practices. Committed to curating conferences on Bioenergy and eco-friendly technologies, we catalyze the industry's development. Emphasizing interdisciplinary collaboration, our events address complex challenges. Dedicated to sustainability, we minimize footprints and promote eco-friendly venues, inspiring environmental responsibility. As catalysts for positive change, guiding the energy industry toward an innovative, environmentally responsible future in conferences that prioritize sustainable development.

If you are interested in forming a partnership with us for the planning and organization of conferences and events worldwide, please don't hesitate to contact us *via* email at **writeus@scientificprism.com** or by phone at **+61 426926027.** Our services extend to facilitating conferences anywhere in the world, and we look forward to the opportunity to discuss your specific needs and requirements.

WE WISH TO SEE YOU AT 3rd IBC-2027 SEATTLE ,WASHINGTON, USA

PRISM

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