# Tentative Program

13th World Congress on

# Biofuels and Bioenergy

September 04-06,2018 Zürich, Switzerland

Disseminating energy solutions from nature on a global platform



Interactive Sessions | Keynote Lectures | Plenary Lectures | Workshops

Exhibitors | B2B Meetings

## ***For available speaker slots***

biofuelscongress@chemseries.com

13th World Congress on

# Biofuels and Bioenergy

## September 04-06,2018 Zürich, Switzerland

### Program at a Glance

**Day 1**

| | | | |
|---|---|---|---|
| Morning Sessions | Reception/Registration | 08.00-09.00 | |
| | | Time | General Session |
| | Least of 3 Keynote/Plenary Talks | 09.00-09.15 | Inaugural Address |
| | | 09.15-09.45 | Keynote/Plenary Talk 1 |
| | | 09.45-10.15 | Keynote/Plenary Talk 2 |
| | | 10.15-10.45 | Keynote/Plenary Talk 3 |
| | Panel Discussions/Group Photo | | |
| | Coffee/Tea Break 10.45-11.00 (Networking) | | |
| | 11.00-12.40 | Advanced Biofuels \| Aviation Biofuels \| Algae Biofuels | |
| Evening Sessions | | | |
| | Lunch Break 12.40-13.30 | | |
| | 13.30-15.30 | Biomass \| Biomass Technologies | |
| | | | |
| | Coffee/Tea Break 15.30-15.45 (Networking) | | |
| | 15.45-17.25 | Workshop & Symposium | |

**Day 2**

| | | | | |
|---|---|---|---|---|
| Morning Sessions | | Time | Session 1 | Session 2 |
| | 09.00-10.40 | | Keynote Forum | |
| | Coffee/Tea Break 10.40-10.55 (Networking) | | | |
| | 10.55-12.35 | | Production of Biofuels | Biodiesel \| Biorefineries |
| | | | | |
| Evening Sessions | Lunch Break 12.35-13.25 | | | |
| | 13.25-15.05 | | Poster Presentations | Poster Presentations |
| | | | | |
| | Coffee/Tea Break 15.05-15.20 (Networking) | | | |
| | 15.20-17.00 | | Bioalcohols and Bioethanol | Biorefineries \| Renewable Energy |

**NOTE: Program Schedule is subject to change with final allotment of the speaker slots**

13th World Congress on

# Biofuels and Bioenergy

## September 04-06,2018 Zürich, Switzerland

| Day 3 | | | |
|---|---|---|---|
| Morning Sessions | Time | Session 1 | Session 2 |
| | 09.00-10.40 | Keynote Forum | |
| | **Coffee/Tea Break 10.40-10.55 (Networking)** | | |
| | 10.55-12.35 | Bioenergy | Biohydrogen |
| | | | |
| Evening Sessions | **Lunch Break 12.35-13.25** | | |
| | 13.25-15.05 | Workshop | Biomass feed stocks for renewable energy generation |
| | | | |
| | **Coffee/Tea Break 15.05-15.20 (Networking)** | | |
| | 15.20-17.00 | Biogas | Food VS. Fuels debate |
| **NOTE: Program Schedule is subject to change with final allotment of the speaker slots** | | | |



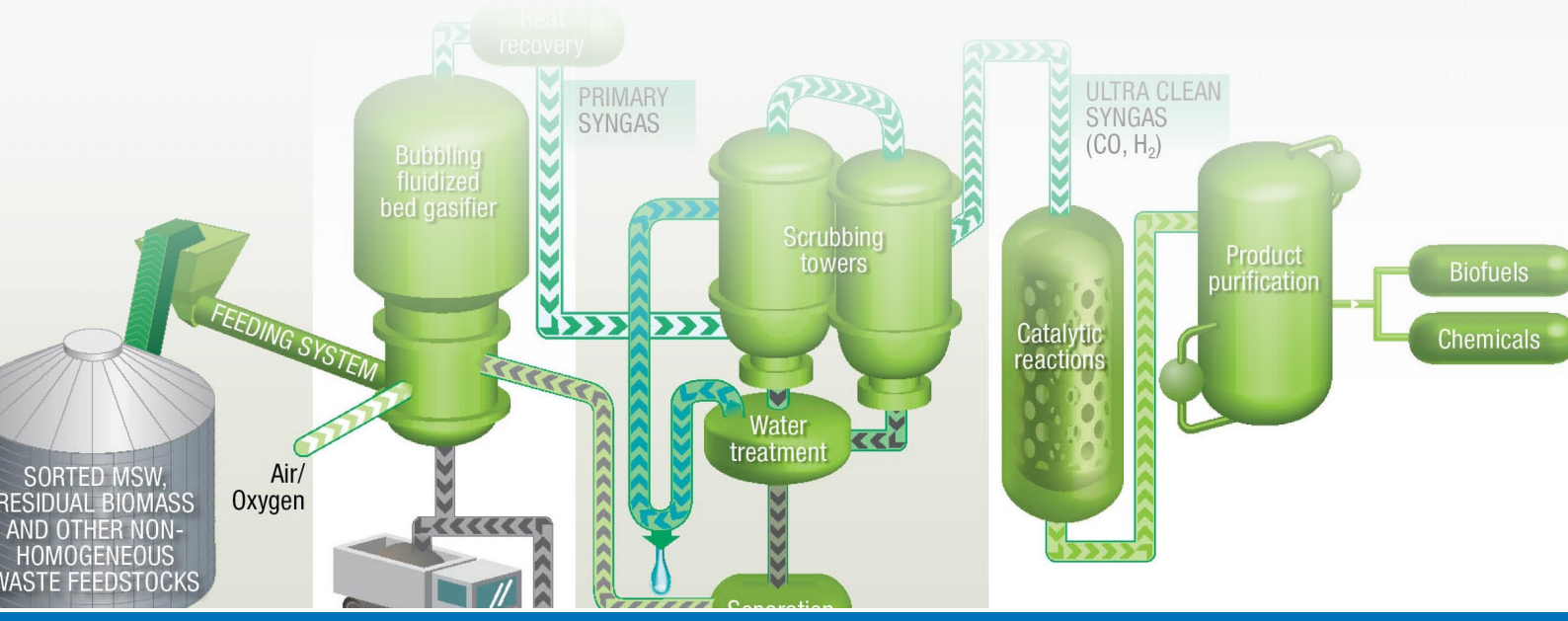
# Conference Highlights

- Advanced Biofuels
- Algae Biofuels
- Aviation biofuels
- Biomass
- Biogas
- Biodiesel
- Bioethanol
- Bioenergy
- Bioenergy Applications
- Biohydrogen
- Biorefineries
- Bioethanol Economics
- Biomass Technologies
- Bioenergy Conversion
- Bioenergy Transition
- Biomass feed stocks for renewable energy generation
- Food vs Fuels Debate
- Production of Biofuels
- Process for Bioenergy
- Renewable Energy

**For detailed sessions, please visit:** https://biofuels-bioenergy.conferenceseries.com/europe/call-for-abstracts.php

**Submit your abstract online at:** https://biofuels-bioenergy.conferenceseries.com/europe/abstract-submission.php

**Register online:** https://biofuels-bioenergy.conferenceseries.com/europe/registration.php



# Glimpses of Biofuels Congress 2017














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Kunsthaus Zürich

Lake Zurich





Zürich Zoologisches Museum

conferenceseries.com

*Scientific Program*

7th International Congress on

# BIOFUELS AND BIOENERGY

October 02-04, 2017 Toronto, Canada




**Conference Series - America**

One Commerce Center-1201, Orange St. #600, Wilmington, Zip 19899, Delaware, USA

P: +1-702-508-5200, F: +1-650-618-1417

**Conference Series - UK**

Kemp House, 152 City Road, London EC1V 2NX Toll Free: +1-800-216-6499

Registrations

Dorothy

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# Opening Ceremony

## Keynote Forum

**Introduction**

**Title: Cellulosic biofuels: Realizing climate benefits and new processing paradigms**
**Lee Lynd**, Dartmouth College, USA

**Title: Bioenergy and energy sustainability**
**Marc Rosen**, University of Ontario Institute of Technology, Canada

**Title: Nanoporous celluloses, previously unknown forms, as the best primary feedstocks for energy, chemical and agricultural feed production**
**Rajai H Atalla**, Cellulose Sciences International, USA

**Panel Discussions**

**Networking & Refreshment Break**

**Title: Engineering of plants for improved conversion into biofuels and bioproducts**
**Henrik V Scheller**, Lawrence Berkeley National Laboratory, USA

**Enhanced production of feedstock biomass: Biostimulants as a low-cost, low-carbon approach**
**Donald L Smith**, McGill University, Canada

**Speical Session**

**Title: Eucalyptus trees for bioenergy**
**Donald L Rockwood**, University of Florida, USA

**Title: Fast growing poplars for bioenergy**
**Ronald S. Zalesny Jr**, USDA Forest Service, USA

**Title: Shrub willow for bioenergy and ecosystem services**
**Timothy A. Volk**, SUNY ESF, USA

**Group Photo @ Dorothy**

**Lunch Break**

**Sessions: Biomass | Bioenergy**
**Session Chair: Prabir Basu**, Dalhousie University, Canada
**Session Co-chair: Charles M. Cai**, UC Riverside, USA

**Session Introduction**

**Title: A comprehensive study on production of torrefied Biofuel using inclined rotary reactor**
**Prabir Basu,** Dalhousie University, Canada
**Title: Biomass deconstruction towards total carbon utilization for future biorefineries**
**Charles M. Cai,** UC Riverside, USA
**Title: Biomass combustion with $CO_2$ capture by chemical looping**
**Alberto Abad,** ICB-CSIC, Spain
**Title: Carbon debt of forest bioenergy - Fact or fantasy?**
**Niclas Scott Bentsen,** University of Copenhagen, Denmark
**Title: Modifying lignin content and composition to improve sorghum for bioenergy**
**Scott Sattler,** USDA-ARS, USA
**Title: Cold climate anaerobic digestion**
**James Houser,** Appalachian State University, USA
**Title: Genetic manipulation of the cell wall hemicellulose component as a route to improved feedstock materials for biofuels production**
**Jacob K Jensen,** Michigan State University, USA
**Title: Storage activity in the woody biomass supply chain: Mitigating GHG emissions and biomass degradation**
**Selly krigstin,** University of Toronto, Canada

**Panel Discussions**

**Networking & Refreshment Break**

**Sessions: Biomass | Bioenergy**
**Session Chair: Vosatka Miroslav,** Institute of Botany Czech Academy of Sciences, Czech Republic
**Session Co-chair: Niclas Scott Bentsen,** University of Copenhagen, Denmark

**Title: Demonstrating operational stability and high returns on investment using additives in biomass burning power boilers**
**Adam Campen,** Imreys, USA
**Title: Steam Explosion for the extraction of sugars, pectic hydrocolloids, phenolics, flavonoids and oils from Citrus sinensis**
**Christina Dorado,** USDA-ARS, USA
**Title: Evaluation of rise husk for bio-hydrogen production**
**Serpil Özmıhçı,** Dokuz Eylül University, Turkey
**Title: Ecological management of fast growing trees plantations and biorefinery of added value products from biomass**
**Vosatka Miroslav,** Institute of Botany Czech Academy of Sciences, Czech Republic
**Title: Water-Energy-Food Nexus: Biogas background and perspectives for Brazil and the United States by 2050**
**Janaina Camile Pasqual,** Pontifical Catholic University of Paraná, Brazil
**Title: Predictive statistical model for optimized biomass boiler operation**
**Naz Orang,** University of Toronto, Canada
**Title: Hydrogen chloride removal from wood waste-derived syngas using inorganic sorbents**
**Augstina E.phram,** Centre RAPSODEE, France
**Title: Calcium phosphates as a novel support material for catalysis in Fischer-Tropsh synthesis**
**Rajesh munirathnam,** Centre RAPSODEE, France
**Title: Comparing pretreatment and subsequent hydrolysis maximum total sugar yielding conditions organosolv pretreatment to CELF pretreated poplar**
**Rachna Dhir,** University of California Riverside, USA

**Panel Discussions**

**Day 2 October 03, 2017**

**Dorothy**

## Keynote Forum

**Title: Biofuels and bio-chemicals: One perspective**

**Ajit Sapre,** Reliance Industries, India

**Title: Technical challenges of large-scale microalgae harvesting for feed, food, and biofuels production**

**Majid Hosseini,** The University of Texas Rio Grande Valley, USA

**Title: Innovative catalysts for the conversion of greenhouse gases ($CO_2$ and $CH_4$) from biowastes to energy and chemical**

**Ange Nzihou,** Centre RAPSODEE, France

**Networking & Refreshment Break**

**Title: Recent progress in torrefaction for upgrading solid biomass fuels**

**Wei-Hsin Chen,** National Cheng Kung University, Taiwan

## Speical Session

**Malgorzata Slupska,** POET, USA
**Jason Bootsma,** Flint Hills Resources, USA
**Brooks Henningsen,** Mascoma LLC, USA
**Herman Pel,** DSM, Netherlands
**Sarah Teter,** Novozymes, USA

## Panel Discussions

**Lunch Break**

**Title: Getting to Scale: Choosing the right financing tool, and the right location**

**Jeff Passmore,** Passmore Group Inc., Canada

## Sessions: Advnaced biofuels | Biorefineries | Bioethanol

**Session Chair: Wolfgang Bauer,** Michigan State University, USA
**Session Co-chair: Kesen Ma,** University of Waterloo, Canada

**Session Introduction**

**Title: Comparison of bio-ethanol and biogas: Net energy ratio, total yield, and greenhouse gas emissions**

**Wolfgang Bauer,** Michigan State University, USA

**Title: Biofuels between manifold expectations - How to assess their potential for sustainable transportation?**

**Daniel thran,** Helmholtz Centre for Environmental Research (UFZ), Germany

**Title: Direct ethanol fuel cell performance using polyzenzimidazole/graphene oxide nanosheets electrolyte membrane**

**Shingjiang Jessie Lue,** Chang Gung University, Taiwan

**Title: Engineered carbon cycling strategies for advanced net-zero carbon Biofuels**

**Lan Rowe,** U.S. Department of Energy, USA

**Title: Making a bridge between biomass and hydrocarbon in a standard refinery**

**Leandro Soter de Mariz e Miranda,** UFRJ, Brazil

**Title: Effective microbial production of 2,3-butanediol from Biodiesel derived crude glycerol**

**Wensheng qin,** Lakehead University, Canada

## Panel Discussions

**Networking & Refreshment Break**

**Title: Thermostable pyruvate decarboxylases are key enzymes in the alcohol fermentation at high temperatures**

**Kesen Ma,** University of Waterloo, Canada

**Title: Bamboo: A fast-growing feedstock for a biorefinery**

**Nuwan Sella Kapu,** University of British Columbia, Canada

**Title: The potential black liquor has to improve the sustainability of kraft process if used as feedstock for kraft biorefinery**

**Franklin Kalu,** Heriot-Watt University, UK

**Title: India BioFuel industry- Challenges, Opportunities and business strategies**

**Amanpreet Singh,** Engineers India Limited, India

**Title: Microwave-assisted organic acid pretreatment of starch based agro-residue: Assessment of fermentable sugar and bioethanol production**

**Funmilayo Faloye,** University of KwaZulu-Natal, South Africa

**Title: Fossil fuel co-combustion of lignocellulosic sugarcane biorefineries: Techno-economic analysis (TEA) and life cycle assessment (LCA)**

**M Ali Mandegari,** University of Stellenbosch, South Africa

## Poster Presentations

**BFBE-01** **Title: Development of resources and tools to improve oil content and quality in pennycress**

**Fan Yang,** The Ohio State University, USA

**BFBE-02** **Title: Oxidative decomposition of lignin for materials of resin**

**Isao Hasegawa,** Kansai University, Japan

**BFBE-03** **Title:High value chemicals from palm Biomass: Combustion kinetics of leaflet, rachis and fibers of UAE date palm tree biomass using thermogravimetric analysis**

**Emmanuel Galiwango,** UAE University, UAE

**BFBE-04** **Title: Optimization of a meter-cubed (1m3) upscaled PBR (a focus on the light distribution of culture-agitation)**

**Allen Akwu-Ude,** University of Glasgow, UK

**BFBE-05** **Title: Kinetics and thermodynamics of thermal inactivation of recombinant *E coli*-lignocellulases cel8C, cel12B, and peh28, on cellulose and pectin: Implications for lignocellulosic biomass conversion**

**Eman Ibrahim,** Texas A and M University-Kingsville, USA

## Day 3 October 04, 2017

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## Keynote Forum

**Title: Perspective of fermentative $H_2$ Production technology from biomass for commercialization**

**Nanqi Ren,** Harbin Institute of Technology, China

**Title: Bioenergy production through chemical looping processes**

**Francisco García Labiano,** ICB-CSIC, Spain

**Title: Renewable fuels and products from biomass: A hybrid thermochemical and biochemical conversion process**

**Animesh Dutta,** University of Guelph, Canada

**Networking & Refreshment Break**

**Title: Why is the thermophilic ethanol fermentation limited to low ethanol titers?**

**Weilan shao,** Jiangsu University, China

## Workshop

**Title: Workshop on Synthesized natural gas production by dually fluidized bed gasification of woody biomass and subsequent methanation**

**Koji Hashimoto,** Tohoku Institute of Technology, Japan

## Special talk

**Jim Grey, IGPC ethanol, Canada**

**Title: A competitiveness analysis of alternative oilseeds for biodiesel production in Brazil**
**Antonio Domingos Padula**, UFRGS, Brazil
**Title: A systems approach to improve oil synthesis in alternative crops**
**Ana Paula Alonso**, The Ohio State University, USA
**Title: Intensified biofuel production**
**Anh phan**, Newcastle University, UK

**Panel Discussions**

**Lunch Break**

**Title: Antiwear study on petroleum base oils with esters**
**A. Rajendiran**, Bharat Petroleum corporation ltd, India
**Title: Biofuels production from microalgae extracts (green diesel and biokerosene)**
**Luis F Barahona**, CICY, Mexico
**Title: Feasibility of using brewery wastewater for biodiesel production and nutrient removal by scenedesmus dimorphus**
**Giovanni Antonio Lutzu**, Oklahoma State University, USA
**Title: Recycle of process streams for sustainable production of algae biofuels**
**Ashwin Gajra**, Reliance Industries Limited, India
**Title: Microbial based biofuel production: potential impact on the control of global warming**
**Javid Hussain**, Institute of Chemical Sciences University of Peshawar, Pakistan
**Title: Production of Microalgae Biomass (MAB): A cost-efficient, profitable, sustainable and quality upscaling of five commercial microalgae strains in greenhouse at northern latitudes**
**Henry T Bedoya**, University of Life Sciences, Norway
**Title: Effect of trace metals addition on food waste anaerobic digestion**
**Andisheh Yazdanpanaha**, University of Western Ontario, Canada

**Panel Discussions**

**Networking & Refreshment Break**

**Award Cermony**