



LABORATORY OF RENEWABLE RESOURCES ENGINEERING

Symposium Celebrating 40 Years

May 18-19, 2018

Engineering for Renewable Energy, Bioproducts, Health from Discovery to Translation

Organizing Committee

Michael Ladisch, LORRE, ABE, Purdue  
George T. Tsao, LORRE, ChE, Purdue  
Xiaoping Yang, BP China

Glen Austin (Novozymes North America)  
Dehua Liu (ChE, Tsinghua University)  
Nathan Mosier (LORRE, ABE, Purdue)

Forum on Global Renewable Energy Outlook

Friday May 18 (Morning, WALC 1018)

Friday May 18 (Afternoon, WALC 1018; Evening, DAUC)

- 7:30 Light Breakfast (continental style) and Reception  
WALC (next to POTR), Purdue University Campus
- 8:30 Welcome to LORRE 40th Anniversary Celebration  
Michael Ladisch, Director of LORRE  
Karen Plaut, Interim Dean, College of Agriculture  
Bernie Engel, Head, Department of Agricultural and Biological Engineering  
Sangtae Kim, Head, School of Chemical Engineering
- 8:45 LORRE: Renewable Energy, Bioproducts, Health  
  
George Tsao, Founding Director, LORRE & Professor Emeritus, Purdue, LORRE: The Beginning of Renewable Resources Engineering  
Xiaoping Yang, President, BP China.  
Chairperson, BP China Holdings.  
Renewable Energy Outlook  
Paul Bloom, VP, Process & Chem. Research, ADM.  
Bioproducts  
Arindam Bose, Consultant, AbiologicsB, LLC.  
Health  
Michael Ladisch, Director & Distinguished Professor  
LORRE: The Next 40 Years
- 10:15 **Break**
- 10:30 Manish Gulati, Asst. Treasurer, General Motors.  
Another Path  
Shirish Sankhe, Director & Sr Partner, McKinsey & Co  
Global Factors  
Doug Cameron, First Green Partners,  
Investing in Renewables  
Nancy Ho, Professor Emeritus, LORRE, recognition  
Renewable Energy  
*Chairs:* Bruce Dale, Nathan Mosier  
Gozdem Kilaz, Purdue, Renewable Fuels Design  
Glen Austin, Sr. Staff Scientist, Novozymes NA.  
Elizabeth DeFreese, Sr. Scientist, Novozymes NA.  
From Enzymes to New Microorganisms
- 12:15 **Lunch** (WALC)

- 1:00 Larry Huggins, Prof. Emeritus, ABE - Introduction  
Vic Lechtenberg, Dean/Prof. Emeritus, President's Office - Renewable Resources and the Land Grant Mission
- 1:30 Dehua Liu, Professor, Tsinghua University  
Renewables in China  
Nathan Mosier, Purdue University  
Biofunctional Products Engineering  
Bruce Dale, Professor, ChE, Michigan State Univ.  
Sustainability
- Bioproducts  
*Chairs:* Dehua Liu, Eduardo Ximenes  
Eduardo Ximenes - Bioconversion  
Abigail Engelberth, Purdue - Separations  
Kevin Solomon, Purdue - Synthetic Biology
- 3:00 **Break**
- 3:15 Prasad Dhurjati, Professor, U. Delaware  
Microbiome and Autism
- Health  
*Chairs:* Ken Ruettimann, Michael Ladisch  
Scott Rudge, Chairman & COO, RMC  
Pharmaceutical - Biopharmaceutical Engr.  
Tom Huang, Assoc. Principal Scientist, AbSci  
Expression Systems  
Ken Ruettimann, VP, Manufacturing, Aerie  
Pharmaceuticals, Pharmaceutical Engineering
- 4:30 Technical Program Wrap-up: Michael Ladisch
- Reception and Dinner**
- 6:00 Reception (Dick & Sandy Dauch Alumni Center)
- 6:45 Mung Chiang, Dean, College of Engineering
- 7:00 Dinner (Dick & Sandy Dauch Alumni Center)  
Slides, photos, LORRE stories from Alumni
- Saturday May 19, Morning (AA Potter Building)**
- 9:00 LORRE Connections: Interdisciplinary Research and International Cooperation  
*Chairs:* Alisha Tungare, Jaycey Hardenstein  
Xingya (Linda) Liu, Lab Manager, recognition  
Laboratory Visits, Posters (students, staff, faculty, alumni)
- 11:30 Box Lunch for participants  
Invited lunch for speakers at Ladisch's