





Inaugural Fraunhofer – Delaware Technology Summit

ENERGY AND LIFE SCIENCES – SOLUTIONS FOR SUSTAINABILITY

March 5 and 6, 2013 | Clayton Hall at the University of Delaware | Newark, Delaware, USA





About the Technology Summit

The first Fraunhofer – Delaware Technology Summit, as the inaugural event of an annual conference with changing scientific emphases, is focused on "Energy and Life Sciences – Solutions for Sustainability."

It will bring together leaders in basic research, translational sciences and industrial applications to discuss the current challenges of both pharmaceutical product development and future energy systems. The Technology Summit will provide attendees with a unique opportunity to meet and network with Energy and Life Science thought leaders from academic, business and government agencies to address these challenges in the rapidly changing global environment.

Two Keynote Speakers will set the stage by giving an overview, highlighting challenges and discussing the path ahead for converting laboratory-based scientific discoveries into new applications with the potential to significantly impact our lives, our environment, and our future.

After the joint program for all attendees in the morning, the afternoon agenda features two parallel sessions – Session A will focus plenary talks and panel discussions on "Life Sciences Solutions," while Session B with address "Sustainable Energy Concepts." An international group of experts from Fraunhofer, academia, the private and the public sector will discuss key challenges and promising solutions to these critical areas.

Who attends the Technology Summit?

- Scientists and researchers
- Industry executives
- Governmental and Foundation
 Programm officers and decision makers

Five reasons for you to attend the Summit:

- Meet scientific leaders from the Delaware region and international Fraunhofer experts.
- **2.** View poster presentations and discuss the latest research results with experts.
- **3.** Exhibit/Share your own scientific findings in a poster presentation.
- **4.** Use the spacious conference setting for face-to-face interaction and networking.
- **5.** Customize your conference. Visit exactly the session that you are most interested in.

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Registration

Attendance is free-of-charge, but registration prior to February 25, 2013 is required to attend the sessions and the lunch. Please use the Summit web site to register and submit applications for poster submissions. http://www.udel.edu/FraunhoferUDSummit/index.html

Call for Posters

Experts from science, industry and governmental agencies are encouraged to submit posters related to this conference. If you wish to submit a poster, please register for the conference and click on https://secure.dbi.udel.edu/registration/fraunhofer/ on the Technology Summit web page and provide poster title and list of authors by February 25, 2013.

Accommodation

Marriott Courtyard Newark Hotel Official Hotel of the University of Delaware 400 David Hollowell Drive Newark, DE 19716

Phone: +1 302-737-0900 Fax: +1 302-737-0990 http://www.udel.edu/hotel/

Please mention "Technology Summit" when making hotel reservations to receive the conference rate.

Driving Directions from Philadelphia/Airport:

Take I-95 South to Delaware Exit 1-B – Route 896 North, which becomes South College Avenue at the intersection of Route 4. Continue straight on South College Avenue for approx. two miles until you reach the Visitors Parking Lot.

Train information: http://www.amtrak.com/home

Parking and Bus information: http://www.udel.edu/transportation/unicity_route/

Venue

Clayton Hall Conference Center at the University of Delaware 100 Pencader Drive Newark, DE 19716, USA http://www.udel.edu/conferences/locations/newark.html



Tuesday, March 5 – FORUM

08:00 - 08:30 am

Registration

08:30 - 09:30 am

Opening Ceremony:

Governor Jack Markell (invited), State of Delaware, President Pat Harker, University of Delaware, Chairman Hans-Joerg Bullinger, Fraunhofer USA

09:30 - 10:30 am

Keynote Presentation: "Life Sciences Addressing Global Challenges" Douglas Muzyka, Executive Vice President and Chief Innovation Officer, E.I. DuPont de Nemours

10:30 - 11:00 am

Coffee Break & Poster Session

11:00 - 12:00 am

Keynote Presentation: "From Fossil to Photons: An Energy Company's Transformation" Lee Davis, Senior Vice President, NRG Energy

12:00 – 01:30 pm Lunch

04:15 - 04:45 pm

Coffee Break & Poster Session

Wednesday, March 6

08:30 - 12:00 am

Laboratory Tours and Opportunities for Follow-up Discussions

Tuesday, March 5 – LIFE SCIENCES

01:30 – 6:00 pm Session A: Life Sciences Solutions

01:30 - 02:00 pm

Plenary Talk A.1: "Step Ahead Together: Creative Collaborating as an Approach to Building and Sustaining a Pharma R&D Pipeline",

John Cantello, GlaxoSmithKline

02:00 - 02:45 pm

Panel Discussion A.1:

Moderator Robin Morgan, Animal Food Sciences, UD

Jessica Chichester, Fraunhofer CMB Jack Gelb, Animal Food Sciences, UD Jung-Youn Lee, DBI, Plant & Soil Sciences, UD

Ryan Zurakowski, Electrical & Computer Engineering, UD

03:00 - 03:30 pm

Plenary Talk A.2: "Advances in Biopharmaceutical Manufacturing", Jürgen Drossard, Fraunhofer IME

03:30 - 04:15 pm

Panel Discussion A.2:

Moderator Vidadi Yusibov, Fraunhofer CMB Arthur Elliott, Biological Consultants Kristi Kiick, Materials Science, UD Holger Ziehr, Fraunhofer ITEM

04:45 - 05:15 pm

Plenary Talk A.3: "From Bedside to Bench: TGN1412"

Zoe Waibler, Paul Ehrlich Institute

05:15 - 6:00 pm

Panel Discussion A.3:

Moderator Uwe Heinrich, Fraunhofer ITEM Johannes Boltze, Fraunhofer IZI Armin Braun, Fraunhofer ITEM, Xinqiao Jia, Materials Science, UD Liyun Wang, Mechanical Engineering, UD

06:00 – 6:30 pm Reception and Poster Session

Tuesday, March 5 – ENERGY CONCEPTS

01:30 – 6:00 pm Session B: Sustainable Energy Concepts

01:30 - 02:00 pm

Plenary Talk B.1: "Challenges and Solutions for a Renewable Energy Economy" Christopher Hebling, Fraunhofer ISE

02:00 - 02:45 pm

Panel Discussion B.1:

Moderator David Weir, OEIP, UD Lee Davis, NRG Energy Willett Kempton, Marine Science&Policy, UD John Ranieri, DuPont Industrial Biosciences Dion Vlachos, Chem Biomolecular Engg, UD

03:00 - 03:30 pm

Plenary Talk B.2: "Clean Energy: Flash without Fame" Yushan Yan, Chem Biomolecular Engineering, UD

03:30 - 04:15 pm

Panel Discussion B.2:

Moderator Bob Birkmire, IEC, UD Christian Hoepfner, Fraunhofer CSE Michael Mackay, Materials Science, UD Ajay Prasad, Mechanical Engineering, UD

04:45 - 05:15 pm

Plenary Talk B.3: "Infrastructure-Ready Biomass-Derived Oils: Incentives, Options and Process Models"

Michael Klein, UDEI, Chem Biomolecular Engineering, UD

05:15 - 6:00 pm

Panel Discussion B.3

Moderator Görge Deerberg, Fraunhofer UMSICHT

Dieter Bryniok, Fraunhofer IGB Andreas Hornung, Fraunhofer UMSICHT Wolfgang Schuch, Fraunhofer CSB Chile Bryan Tracy, Elcriton

06:00 – 6:30 pm

Reception and Poster Session