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GORDON RESEARCH CONFERENCES *frontiers of science*
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Nancy Ryan Gray, Ph.D.
Director

**2009 GORDON RESEARCH CONFERENCE
on CELLULOSOMES, CELLULASES & OTHER CARBOHYDRATE MODIFYING ENZYMES**

FINAL PROGRESS REPORT

DEPARTMENT OF ENERGY
GRANT NO. DE-SC0001566

The Gordon Research Conference on CELLULOSOMES, CELLULASES & OTHER CARBOHYDRATE MODIFYING ENZYMES was held at Proctor Academy, Andover, NH, July 26-31, 2009. The Conference was well-attended with 167 participants (attendees list attached). The attendees represented the spectrum of endeavor in this field coming from academia, industry, and government laboratories, both U.S. and foreign scientists, senior researchers, young investigators, and students. Of the 167 attendees, 57 voluntarily responded to a general inquiry regarding ethnicity which appears on our registration forms. Of the 57 respondents, 18% were Minorities – 7% Hispanic and 11% Asian. **Approximately 32% of the participants at the 2009 meeting were women.**

In designing the formal speakers program, emphasis was placed on current unpublished research and discussion of the future target areas in this field. There was a conscious effort to stimulate lively discussion about the key issues in the field today. Time for formal presentations was limited in the interest of group discussions. In order that more scientists could communicate their most recent results, poster presentation time was scheduled. Attached is a copy of the formal schedule and speaker program and the poster program. In addition to these formal interactions, "free time" was scheduled to allow informal discussions. Such discussions are fostering new collaborations and joint efforts in the field.

Thank you for your support of this Conference. As you know, in the interest of promoting the presentation of unpublished and frontier-breaking research, Gordon Research Conferences does not permit publication of meeting proceedings. If you wish any further details, please feel free to contact me. Thank you.

Sincerely,
Harry Gilbert, Conference Chairperson
UNIVERSITY OF NEWCASTLE

CELLULOSOMES, CELLULASES & OTHER CARBOHYDRATE MODIFYING ENZYMES

July 26-31, 2009
Proctor Academy
Andover, NH

Chair:
Harry Gilbert
Vice Chair:
Colin Mitchinson

The 2009 Gordon Conference on Cellulosomes, Cellulases & Other Carbohydrate Modifying Enzymes will present cutting-edge research on the enzymatic degradation of cellulose and other plant cell wall polysaccharides. The Conference will feature a wide range of topics that includes the enzymology of plant structural degradation, regulation of the degradative apparatus, the mechanism of protein complex assembly, the genomics of cell wall degrading organisms, the structure of the substrate and the industrial application of the process particularly within the biofuel arena. Indeed the deployment of plant cell wall degrading enzymes in biofuel processes will be an important feature of the meeting. It should be emphasized that the 2009 Conference will be expanded to include, in addition to cellulase research, recent advances in other plant cell wall degrading enzymes, and contributions from people working on hemicellulases and pectinases will be particularly welcome. Invited speakers represent a variety of scientific disciplines, including biochemistry, structural biology, genetics and cell biology. The interplay between fundamental research and its industrial exploitation is a particularly important aspect of the meeting, reflecting the appointment of the chair and vice-chair from academia and industry, respectively. The meeting will provide opportunities for junior scientists and graduate students to present their work in poster format and exchange ideas with more established figures in the field. Indeed, some poster presenters will be selected for short talks. The collegial atmosphere of this Conference, with programmed discussion sessions as well as opportunities for informal gatherings in the afternoons and evenings, provides an avenue for scientists from different disciplines to brainstorm and promotes cross-disciplinary collaborations in the various research areas represented. The Conference is likely to be heavily subscribed so we would recommend that you submit your application/abstract to the GRC web site as soon as possible.

SUNDAY

2:00 pm - 9:00 pm	Arrival and Check-in (Office Closed 6:00 pm - 7:00 pm)
6:00 pm	Dinner
7:30 pm - 7:45 pm	Welcome / Introductory Comments by GRC Site Staff, Chair and Vice-Chair
7:45 pm - 9:30 pm	SETTING THE STAGE, MATCHING ENZYME AND SUBSTRATE
	Discussion Leader: Edward Bayer (Weitzmann Institute, Israel)
7:45 pm - 8:15 pm	Michael Himmel (DOE-NREL, USA) "Understanding Plant Cell Walls: Towards Improved Biomass Conversion and New Materials"
8:15 pm - 8:25 pm	Discussion

8:25 pm - 8:55 pm	Alisdair Boraston (University of Victoria, Canada) "Protein-carbohydrate recognition"
8:55 pm - 9:05 pm	Discussion
9:05 pm - 9:30 pm	General Discussion
9:30 pm	Additional Discussions at Proctor Academy Clubhouse

MONDAY

7:30 am - 8:30 am	Breakfast
8:30 am	Group Photo
9:00 am - 12:30 pm	CELL WALL ARCHITECTURE AND DISPLAY Discussion Leader: Udaya C. Kalluri (DOE-ONL, USA)
9:00 am - 9:25 am	Vincent Bulone (KTH, Seden) "Cellulose biosynthesis"
9:25 am - 9:35 am	Discussion
9:35 am - 10:00 am	Claire Halpin (University of Dundee, UK) "Lignin biosynthesis and manipulation"
10:00 am - 10:10 am	Discussion
10:10 am - 10:35 am	Coffee Break
10:35 am - 11:00 am	Debra Mohnen (UGA, USA) "Understand the laying down of the complete plant cell wall"
11:00 am - 11:10 am	Discussion
11:10 am - 11:35 am	Paul Knox (University of Leeds UK) "The use of molecular probes to generate an integrated view of polysaccharides and plant cell wall structures"
11:35 am - 11:45 am	Discussion
11:45 am - 12:10 pm	Paul Dupree (University of Cambridge, UK) "Profiling plant cell wall polysaccharide quantity and structures with hydrolases"
12:10 pm - 12:20 pm	Discussion
12:20 pm - 12:30 pm	General Discussion
12:30 pm	Lunch
1:30 pm - 4:00 pm	Free Time
4:00 pm - 6:00 pm	Poster Session
6:00 pm	Dinner
7:30 pm - 9:30 pm	PLANT CELL WALL HYDROLASE STRUCTURE AND FUNCTION - CELLULOSOMAL MODULE INTERACTIONS Discussion Leader: Stephen Smith (Queens University, Canada)
7:30 pm - 8:00 pm	Henri-Pierre Fierobe (CNRS, Marseille, France)

	"Cellulosome chimeras displaying novel characteristics"
8:00 pm - 8:10 pm	Discussion
8:10 pm - 8:40 pm	Ilit Noach (Weizmann Institute, Israel) "Cellulosome diversity, flexibility and modular arrangement revealed from cohesin structural studies"
8:40 pm - 8:50 pm	Discussion
8:50 pm - 9:20 pm	Michael Crowley ((DOE-NREL, USA) "From Dissecting to Building the Cellulosome: Structural Studies of Multi-Modular Complexes"
9:20 pm - 9:30 pm	Discussion
9:30 pm	Additional Discussions at Proctor Academy Clubhouse

TUESDAY

7:30 am - 8:30 am	Breakfast
9:00 am - 10:05 am	PLANT CELL WALL HYDROLASE STRUCTURE AND FUNCTION - CELLULOSOMAL MODULE INTERACTIONS (CONTINUED)
	Discussion Leader: Stephen Smith (Queens University, Canada)
9:00 am - 9:30 am	Elizabeth Ficko-Blean (University of Victoria, Canada) "Portrait of an enzyme: a complete structural analysis of a multi-modular beta-N-acetylglucosaminidase from <i>Clostridium perfringens</i> "
9:30 am - 9:40 am	Discussion
9:40 am - 10:05 am	General Discussion
10:05 am - 12:30 pm	PLANT CELL WALL HYDROLASE STRUCTURE AND FUNCTION - CATALYTIC DOMAINS
	Discussion Leader: Mirjam Czjzek (CNRS, France)
10:05 am - 10:35 am	Cecile Herve (University of Leeds, UK) "The role of carbohydrate binding modules in the degradation of xylans in plant cell walls"
10:35 am - 10:45 am	Discussion
10:45 am - 11:20 am	Coffee Break
11:20 am - 11:50 am	Brian Watson (University of Maryland, USA) " <i>Saccharophagus degradans</i> 2-40 utilizes a novel group of processive endoglucanases to degrade cellulose"
11:50 am - 12:00 pm	Discussion
12:00 pm - 12:25 pm	Peter Biely (SAS , Slovakia) "Towards recognition of the structure, function and biotechnological potential of carbohydrate esterases"
12:25 pm - 12:30 pm	Discussion
12:30 pm	Lunch

1:30 pm - 4:00 pm	Free Time
4:00 pm - 6:00 pm	Poster Session
6:00 pm	Dinner
7:30 pm - 9:30 pm	PLANT CELL WALL HYDROLASE STRUCTURE AND FUNCTION - CATALYTIC DOMAINS (CONTINUED)
	Discussion Leader: Mirjam Czjzek (CNRS, France)
7:30 pm - 8:00 pm	Richard Pickersgill (Queen Mary University of London, UK) "Molecular basis of the activity of pectin enzymes"
8:00 pm - 8:10 pm	Discussion
8:10 pm - 8:40 pm	Jocelyn KC Rose (Cornell University, USA) "Plant cellulases"
8:40 pm - 8:50 pm	Discussion
8:50 pm - 9:20 pm	Mats Sandgren (University of Agricultural Sciences, Sweden) "Structural characterization of a β -xylosidase and comparisons with other GH family 3 enzymes"
9:20 pm - 9:30 pm	Discussion
9:30	Additional Discussions at Proctor Academy Clubhouse

WEDNESDAY

7:30 am - 8:30 am	Breakfast
9:00 am - 10:45 am	PLANT CELL WALL HYDROLASE STRUCTURE AND FUNCTION - CATALYTIC DOMAINS (CONTINUED)
	Discussion Leader: Mirjam Czjzek (CNRS, France)
9:00 am - 9:30 am	Vincent Eijsink (Norwegian University of Life Sciences, Norway) "The roles of processivity and accessory proteins during enzymatic degradation of recalcitrant polysaccharides"
9:30 am - 9:40 am	Discussion
9:40 am - 10:10 am	Kiyohiko Igarashi (University of Tokyo, Japan) "Single-molecule imaging of cellobiohydrolases on highly crystalline cellulose using high-speed atomic force microscopy"
10:10 am - 10:20 am	Discussion
10:20 am - 10:45 am	General Discussion
10:45 am - 11:10 am	Coffee Break
11:10 am - 12:30 pm	REGULATION OF ENZYME EXPRESSION
	Discussion Leader: Merja Penttilä (VTT, Finland)
11:10 am - 11:40 am	Eric Martens (Washington University, USA) "Transcriptional Regulation of Glycoside Hydrolases in <i>Bacteroides thetaiotaomicron</i> "
11:40 am - 11:50 am	Discussion

11:50 am - 12:20 pm **David Bolam** (Newcastle University, UK)
"The mechanism of nutrient sensing in *Bacteroides thetaiotaomicron*"

12:20 pm - 12:30 pm Discussion

12:30 pm Lunch

1:30 pm - 4:00 pm Free Time

4:00 pm - 6:00 pm Poster Session

6:00 pm Dinner

7:30 pm - 9:15 pm **REGULATION OF ENZYME EXPRESSION
(CONTINUED)**

Discussion Leader: **Merja Penttilä** (VTT, Finland)

7:30 pm - 8:00 pm **Yuval Shoham** (Technion, Israel)
"Competing for carbon in the soil: the hemicellulolytic system of
Geobacillus stearothermophilus"

8:00 pm - 8:10 pm Discussion

8:10 pm - 8:40 pm **Bernhard Seiboth** (Institute of Chemical Engineering, Austria)
"Genome-wide approaches towards understanding cellulase production by
Trichoderma reesei"

8:40 pm - 8:50 pm Discussion

8:50 pm - 9:15 pm General Discussion

9:15 pm Additional Discussions at Proctor Academy Clubhouse

THURSDAY

7:30 am - 8:30 am Breakfast

9:00 am - 11:55 am **RATIONAL DESIGN, DIRECTED EVOLUTION AND
PROSPECTING FOR SUPERIOR ENZYMES**

Discussion Leader: **Harry Brumer** (KTH, Sweden)

9:00 am - 9:30 am **Suzanne Lantz** (Genencor, USA)
"Discovery and Development of Improved Enzymes for Ligno-Cellulosic
Conversion"

9:30 am - 9:40 am Discussion

9:40 am - 10:10 am **Jason Quinlan** (Novozymes Denmark)
"Improving enzymatic cellulose hydrolysis: effects of non-cellulose
components of biomass feedstock"

10:10 am - 10:20 am Discussion

10:20 am - 10:45 am Coffee Break

10:45 am - 11:00 am General Discussion

11:00 am - 12:30 pm **GENOMES**

Discussion Leader: **Bernard Henrissat** (CNRS, France)

11:00 am - 11:30 am **Pedro Coutinho** (CNRS, France)

	"Bacterial genomes"
11:30 am - 11:40 am	Discussion
11:40 am - 11:50 am	Irina Kataeva (UGA, USA) "Physiology, Enzymology and Genome Sequence of <i>Anaerocellum thermophilum</i> DSM 6725, an Anaerobic Bacterium that Degrades Untreated Plant Biomass up to 90°C"
11:50 am - 11:55 am	Discussion
11:55 am - 12:05 pm	Jan-Hendrik Hehemann (CNRS, France) "Porphyrane gene transfer from marine to human gut bacteria - the Sushi factor"
12:05 pm - 12:10 pm	Discussion
12:10 pm - 12:25 pm	Harry Brumer (KTH, Sweden) "CAZypedia"
12:25 pm - 12:30 pm	Discussion
12:30 pm	Lunch
1:30 pm - 4:00 pm	Free Time
4:00 pm - 6:00 pm	Poster Session
6:00 pm	Dinner
7:00 pm - 7:30 pm	<u>Business Meeting</u> (Nominations for the next Vice Chair; Fill out Conference Evaluation Forms; Discuss future Site & Scheduling preferences; Election of the next Vice Chair)
7:30 pm - 9:15 pm	GENOMES (CONTINUED) Discussion Leader: Bernard Henrissat (CNRS, France)
7:30 pm - 8:00 pm	Philip B. Pope (CSIRO, Australia) "The plant cell wall degrading capacity of the microbial community in marsupials"
8:00 pm - 8:10 pm	Discussion
8:10 pm - 8:40 pm	Bryan White (Inst. Gen. Biol., USA) "Cellulosomics, a gene-centric metagenomic approach for investigating the dynamics of cellulose-degrading specialist populations within global communities"
8:40 pm - 8:50 pm	Discussion
8:50 pm - 9:15 pm	General Discussion
FRIDAY	
7:30 am - 8:30 am	Breakfast
9:00 am	Departure

Cellulosomes, Cellulases & Other Carbohydrate Modifying Enzymes (2009)

Name	Organization	Participation	Status
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ABBOTT, D. WADE	COMPLEX CARBOHYDRATE RESEARCH CENTER	Poster Presenter	Registered
ADNEY, WILLIAM S	NATIONAL RENEWABLE ENERGY LABORATORY	Poster Presenter	Registered
AKHTAR, M. WAHEED	UNIVERSITY OF THE PUNJAB	Poster Presenter	Registered
ALBER, ORLY	WEIZMANN INSTITUTE OF SCIENCE	Poster Presenter	Registered
ALLGAIER, MARTIN	LAWRENCE BERKELEY LABORATORIES	Poster Presenter	Registered
ANBAR, MICHAEL	WEIZMANN INSTITUTE OF SCIENCE	Poster Presenter	Registered
ANDERSON, LARS	NOVOZYMES A/S	Attendee	Registered
ASUNCION, ARMANDO	COPENHAGEN UNIVERSITY	Poster Presenter	Registered
BAHARI, LIAT	WEIZMANN INSTITUTE OF SCIENCE	Poster Presenter	Registered
BARAK, YOAV	WEIZMANN INSTITUTE OF SCIENCES	Attendee	Registered
BAYER, EDWARD A	WEIZMANN INSTITUTE OF SCIENCE	Discussion Leader	Registered
BECKHAM, GREGG T	NATIONAL RENEWABLE ENERGY LABORATORY	Poster Presenter	Registered
BEESON, WILLIAM T	UNIVERSITY OF CALIFORNIA BERKELEY	Poster Presenter	Registered
BEJAR, CLARISA M	ENERGY BIOSCIENCES INSTITUTE	Attendee	Registered
BERG MILLER, MARGRET E	UNIVERSITY OF ILLINOIS	Poster Presenter	Registered
BIELY, PETER	SLOVAK ACADEMY OF SCIENCES	Speaker	Registered
BLANCHARD, JEFFREY L	UNIVERSITY OF MASSACHUSETTS	Poster Presenter	Registered
BLOUZARD, JEAN-CHARLES	CNRS - LABORATOIRE DE CHIMIE BACTERIENNE	Poster Presenter	Registered
BOLAM, DAVID N	NEWCASTLE UNIVERSITY	Speaker	Registered
BORASTON, ALISDAIR B	UNIVERSITY OF VICTORIA	Speaker	Registered
BRAINARD, JIM	NATIONAL RENEWABLE ENERGY LABORATORY	Attendee	Registered
BREVENOVA, ELENA E	MASCOMA CORPORATION	Attendee	Registered
BRUMER, HARRY	ROYAL INSTITUTE OF TECHNOLOGY	Discussion Leader	Registered
BU, LINTAO	NATIONAL RENEWABLE ENERGY LABORATORY	Poster Presenter	Registered
BULONE, VINCENT	ROYAL INSTITUTE OF TECHNOLOGY (KTH)	Speaker	Registered
BURSTEIN, TAL	TEL-AVIV UNIVERSITY	Poster Presenter	Registered
CARTMELL, ALAN A	CCRC	Poster Presenter	Registered
CASPI, JONATHAN	GENENCOR, A DANISCO DIVISION	Poster Presenter	Registered
CHUNDAWAT, SHISHIR P S	MICHIGAN STATE UNIVERSITY	Poster Presenter	Registered
CORGIE, STEPHANE C	CORNELL UNIVERSITY	Poster Presenter	Registered
COUTINHO, PEDRO M	UNIVERSITE AIX-MARSEILLE, CNRS - AFMB	Speaker	Registered
CROWLEY, MICHAEL F	NREL	Speaker	Registered
CURRIE, DEVIN H	DARTMOUTH COLLEGE	Attendee	Registered
CUSKIN, FIONA M	UNIVERSITY OF GEORGIA	Poster Presenter	Registered
CZJZEK, MIRJAM	CNRS STATION BIOLOGIQUE DE ROSCOFF	Discussion Leader	Registered
DAMVELD, ROBBERT A	DSM WHITE BIOTECHNOLOGY	Attendee	Registered
DATTA, SUPRATIM	JOINT BIOENERGY RESEARCH INSTITUTE	Poster Presenter	Registered
DE PHILIP, PASCALE	CNRS - LABORATOIRE DE CHIMIE BACTERIENNE	Poster Presenter	Registered
DECKER, STEVE	NATIONAL RENEWABLE ENERGY LABORATORY	Poster Presenter	Registered
DEN HAAN, RIAAN	UNIVERSITY OF STELLENBOSCH	Poster Presenter	Registered
DHAWAN, ISH K	CODEXIS INC.	Attendee	Registered
DING, SHI-YOU	NATIONAL RENEWABLE ENERGY LABORATORY	Poster Presenter	Registered
DING, SHAOJUN	NANJING FORESTRY UNIVERSITY	Poster Presenter	Registered
DISTEL, DANIEL L	OCEAN GENOME LEGACY	Attendee	Registered
DONNELLY, MARIE K	CORNELL UNIVERSITY	Poster Presenter	Registered
DUMITRACHE, ALEXANDRU	RYERSON UNIVERSITY	Attendee	Registered

DUMON, CLAIRE E	INRA-INSA	Poster Presenter	Registered
DUPREE, PAUL	UNIVERSITY OF CAMBRIDGE	Speaker	Registered
EIJSINK, VINCENT	NORWEGIAN UNIVERSITY OF LIFE SCIENCE	Speaker	Registered
ESCOVAR KOUSEN, JOSE M	BP	Attendee	Registered
FICKO-BLEAN, ELIZABETH	UNIVERSITY OF VICTORIA	Attendee	Registered
FIEROBE, HENRI-PIERRE	CNRS-BIP	Speaker	Registered
FLINT, HARRY J	UNIVERSITY OF ABERDEEN	Poster Presenter	Registered
FRIIS, ESBEN P	NOVOZYMES A/S	Attendee	Registered
FURUKAWA, TAKANORI	NAGAOKA UNIVERSITY OF TECHNOLOGY	Poster Presenter	Registered
GILBERT, HARRY J	UNIVERSITY OF NEWCASTLE	Chair	Registered
GLASS, LOUISE	UNIVERSITY OF CALIFORNIA	Attendee	Registered
GRAY, KEVIN A	QTEROS INC	Attendee	Registered
GREGURICK, SUSAN K	DOE	Attendee	Registered
GROPOSO, CLAUDIA	PETROBRAS	Attendee	Registered
HALPIN, CLAIRE	UNIVERSITY OF DUNDEE AT SCRI	Speaker	Registered
HANSSON, HENRIK	SWEDISH UNIVERSITY OF AGRICULTURAL SCIENCES	Poster Presenter	Registered
HAU, HEIDI H	MASCOMA CORPORATION	Attendee	Registered
HAYES, JAMES	UNIVERSITY OF MASSACHUSETTS AMHERST	Attendee	Registered
HE, SHAOMEI	DOE JOINT GENOME INSTITUTE	Attendee	Registered
HEHEMANN, JAN-HENDRIK	CNRS	Poster Presenter	Registered
HENRISSAT, BERNARD P	CNRS	Discussion Leader	Registered
HENSON, JOHN M	CLEMSON UNIVERSITY	Attendee	Registered
HERVE, CECILE	UNIVERSITY OF LEEDS	Speaker	Registered
HIMMEL, MIKE	NAT'L RENEWABLE ENERGY LABORATORY	Speaker	Registered
HORI, CHIAKI	UNIVERSITY OF TOKYO	Poster Presenter	Registered
HUTCHESON, STEVEN W	UNIVERSITY OF MARYLAND	Poster Presenter	Registered
IGARASHI, KIYOHICO	UNIVERSITY OF TOKYO	Speaker	Registered
ILMEN, MARJA	VTT TECHNICAL RESEARCH CENTRE OF FINLAND	Poster Presenter	Registered
JORDAN, DOUGLAS B	USDA-ARS	Poster Presenter	Registered
KALLURI, UDAYA C	OAK RIDGE NATIONAL LABORATORY	Speaker	Registered
KANEKO, SATOSHI	NATIONAL FOOD RESEARCH INSTITUTE	Poster Presenter	Registered
KARPOL, ALON	DESIGNER ENERGY	Attendee	Registered
KATAEVA, IRINAA	UNIVERSITY OF GEORGIA	Poster Presenter	Registered
KHRAMTSOV, NIKOLAI V	ARBOR FUEL INC.	Attendee	Registered
KING, BRIAN C	CORNELL UNIVERSITY	Poster Presenter	Registered
KNOLL, ERIC H	NATIONAL RENEWABLE ENERGY LAB	Attendee	Registered
KNOX, PAUL	UNIVERSITY OF LEEDS	Speaker	Registered
KUMAR, MANOJ	DSM INNOVATION INC	Attendee	Registered
KUNJACHEN, JOBBY M	QUEEN'S UNIVERSITY	Poster Presenter	Registered
LA GRANGE, DANIEL C	UNIVERSITY OF STELLENBOSCH	Poster Presenter	Registered
LANTZ, SUZANNE E	GENENCOR, A DANISCO DIVISION	Speaker	Registered
LARENAS, EDMUNDO A	GENENCOR	Poster Presenter	Registered
LATOUF, WILLIAM G	QTEROS, INC.	Attendee	Registered
LESCHINE, SUSAN B	UNIVERSITY OF MASSACHUSETTS AMHERST	Poster Presenter	Registered
LIU, WENJIN	VIRGINIA TECH	Poster Presenter	Registered
LIU, CHENGSONG C	IOGEN CORPORATION	Attendee	Registered
LOWE, ELISABETH C	NEWCASTLE UNIVERSITY	Poster Presenter	Registered
LUNIN, VLADIMIR V	NATIONAL RENEWABLE ENERGY LABORATORY	Poster Presenter	Registered

MACDONALD, JACQUELINE J	UNIVERSITY OF TORONTO	Poster Presenter	Registered
MARTENS, ERIC C	WASHINGTON UNIVERSITY	Speaker	Registered
MASTER, EMMA R	UNIVERSITY OF TORONTO	Poster Presenter	Registered
MCCLEARY, BARRY V	MEGAZYME INTERNATIONAL IRELAND LIMITED	Attendee	Registered
MCKEE, LAUREN S	UNIVERSITY OF GEORGIA	Poster Presenter	Registered
MERTENS, JEFF	USDA-ARS	Poster Presenter	Registered
MITCHINSON, COLIN	GENENCOR, A DANISCO DIVISION	Vice Chair	Registered
MOHNEN, DEBRA	UNIVERSITY OF GEORGIA	Speaker	Registered
MOJZITA, DOMINIK	VTT - TECHNICAL RESEARCH CENTRE OF FINLAND	Poster Presenter	Registered
MONTALIBET, JACQUELINE	IOGEN CORPORATION	Poster Presenter	Registered
MOON, HANGSIK	SYNGENTA BIOTECHNOLOGY, INC.	Attendee	Registered
MORAG, ELY	DESIGNER ENERGY	Attendee	Registered
NAKAMURA, AKIHIKO	UNIVERSITY OF TOKYO	Poster Presenter	Registered
NATAF, YAKIR	TECHNION - ISRAEL INSTITUTE OF TECHNOLOGY	Poster Presenter	Registered
NICHOLS, JASON D	SYNGENTA BIOTECHNOLOGY, INC.	Poster Presenter	Registered
NIMLOS, MARK R	NATIONAL RENEWABLE ENERGY LABORATORY	Poster Presenter	Registered
NOACH, ILIT	WEIZMANN INSTITUTE OF SCIENCE	Speaker	Registered
NORMAN, JOANNA	NEWCASTLE UNIVERSITY	Poster Presenter	Registered
OGASAWARA, WATARU	NAGAOKA UNIVERSITY OF TECHNOLOGY	Poster Presenter	Registered
OLSON, DANIEL G	MASCOMA	Poster Presenter	Registered
PAAVOLA, CHAD	NASA AMES RESEARCH CENTER	Poster Presenter	Registered
PENA, MARIA J	UNIVERSITY OF GEORGIA	Poster Presenter	Registered
PENTTILA, MERJA	VTT	Discussion Leader	Registered
PEREIRA, ERIDAN O	UWO/AAFC	Poster Presenter	Registered
PHILLIPS, GEORGE N	UNIVERSITY OF WISCONSIN	Attendee	Registered
PICKERSGILL, RICHARD	QUEEN MARY UNIVERSITY	Speaker	Registered
PLETSCHKE, BRETT I	RHODES UNIVERSITY	Poster Presenter	Registered
PODKAMINER, KARA	DARTMOUTH COLLEGE	Attendee	Registered
POPE, PHILLIP B	CSIRO	Speaker	Registered
QUINLAN, JASON	NOVOZYMES INC	Speaker	Registered
QUIRINO, BETANIA	EMBRAPA-AGRIENERGY	Poster Presenter	Registered
RAMAN, BABU	OAK RIDGE NATIONAL LABORATORY	Attendee	Registered
RESCH, MICHAEL	NATIONAL RENEWABLE ENERGY LAB	Attendee	Registered
RESHEF, DAN	HEBREW UNIVERSITY IN JERUSALEM	Poster Presenter	Registered
ROGOWSKI, ARTUR	NEWCASTLE UNIVERSITY	Poster Presenter	Registered
ROSE, JOCELYN K	CORNELL UNIVERSITY	Speaker	Registered
SAKKA, KAZUO	GRADUATE SCHOOL OF BIORESOURCES, MIE UNIVERSITY	Attendee	Registered
SANDGREN, MATS	SWEDISH UNIVERSITY OF AGRICULTURAL SCIENCES	Speaker	Registered
SCHUELER-FURMAN, ORA	HEBREW UNIVERSITY OF JERUSALEM	Poster Presenter	Registered
SCOTT, BRIAN R	IOGEN CORPORATION	Poster Presenter	Registered
SEIBOTH, BERNHARD	TU WIEN	Speaker	Registered
SHIDA, YOSUKE	NAGAOKA UNIVERSITY OF TECHNOLOGY	Poster Presenter	Registered
SHIMON, LINDA J. W	WEIZMANN INSTITUTE OF SCIENCE	Poster Presenter	Registered
SHOHAM, YUVAL	TECHNION-IIT	Speaker	Registered
SLUIS, MIRIAM K	GEOSYNFUELS	Attendee	Registered
SLUTZKI, MICHAL	WEIZMANN INSTITUTE OF SCIENCE	Poster Presenter	Registered
SMITH, STEVEN P	QUEEN'S UNIVERSITY	Discussion Leader	Registered

SOUZA, AMANCIO J	MSU-DOE PLANT RESEARCH LABORATORY	Poster Presenter	Registered
STALBRAND, HENRIK	LUND UNIVERSITY	Poster Presenter	Registered
STALS, INGEBORG	UNIVERSITY COLLEGE GHENT	Poster Presenter	Registered
SVENSSON, BIRTE	TECHNICAL UNIVERSITY OF DENMARK	Poster Presenter	Registered
TARDIF, CHANTAL	CNRS - LABORATOIRE DE CHIMIE BACTÉRIENNE	Poster Presenter	Registered
TAYLOR, LARRY E	NATIONAL RENEWABLE ENERGY LABORATORY	Poster Presenter	Registered
TSAI, ALEX YI-LIN	UNIVERSITY OF TORONTO	Poster Presenter	Registered
TUOMIVAARA, SAMI T	UNIVERSITY OF GEORGIA	Poster Presenter	Registered
TURNER, PERNILLA	UNIVERSITY OF COLORADO	Poster Presenter	Registered
URBANOWICZ, BREEANNA RAE	UNIVERSITY OF GEORGIA	Poster Presenter	Registered
VAZANA, Yael	WEIZMANN INSTITUTE OF SCIENCE	Poster Presenter	Registered
VOUTILAINEN, SANNI P	VTT TECHNICAL RESEARCH CENTRE OF FINLAND	Poster Presenter	Registered
VUONG, THU V.	CORNELL UNIVERSITY	Poster Presenter	Registered
WANG, LIJUN	UNIVERSITY OF TORONTO	Poster Presenter	Registered
WATSON, BRIAN J	UNIVERSITY OF MARYLAND	Poster Presenter	Registered
WELCH, JESSICA P	CSIRO	Poster Presenter	Registered
WHITE, BRYAN A	UNIVERSITY OF ILLINOIS	Poster Presenter	Registered
WILSON, DAVID B	CORNELL UNIVERSITY	Poster Presenter	Registered
WINTER, WILLIAM T	SUNY ENVIRON SCI & FORESTRY	Poster Presenter	Registered
WISWALL, ERIN	MASCOMA	Poster Presenter	Registered
XI, JUN	DREXEL UNIVERSITY	Poster Presenter	Registered
YEOMAN, CARL J	UNIVERSITY OF ILLINOIS	Poster Presenter	Registered
YOSHIDA, SHOSUKE	UNIVERSITY OF ILLINOIS	Attendee	Registered
ZHANG, XIAOZHOU	VIRGINIA TECH	Poster Presenter	Registered
ZHANG, Y-H PERCIVAL	VIRGINIA TECH	Poster Presenter	Registered
ZHU, YANPING	CCRC	Poster Presenter	Registered