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GORDON RESEARCH CONFERENCES *frontiers of science*

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Nancy Ryan Gray, Ph.D.
Director

**2011 GORDON RESEARCH CONFERENCE
on PHOTOCHEMISTRY**

FINAL PROGRESS REPORT
DEPARTMENT OF ENERGY
GRANT NO. DE-SC0006506

The Gordon Research Conference on PHOTOCHEMISTRY was held at Stonehill College, Easton, Massachusetts July 10-15, 2011. The Conference was well-attended with 147 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 147 attendees, 75 voluntarily responded to a general inquiry regarding ethnicity which appears on our registration forms. Of the 75 respondents, 18% were Minorities – 4% Hispanic, 13% Asian and 1% African American. Approximately 23% of the participants at the 2011 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In designing the formal speakers program, emphasis was placed on current unpublished research and discussion of the future target areas in this field.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 As you know, in the interest of promoting the presentation of unpublished and frontier-breaking research, Gordon Research Conferences does not permit publication of meeting proceedings.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,
Cornelia Bohne, Conference Chairperson
UNIVERSITY OF VICTORIA

Photochemistry

July 10-15, 2011
Stonehill College
Easton, MA

Chairs:

Cornelia Böhne & Gerald J. Meyer

Vice Chairs:

Andrei G. Kutateladze & Bern Kohler

Related Meeting Information

The Photochemistry Gordon Research Conference was held in conjunction with the **Photochemistry Gordon-Kenan Research Seminar**. Please refer to the Photochemistry GKRS web page for more information.

Photochemistry has wide implications on fundamental science with technological applications that range from synthetic and mechanistic organic and inorganic chemistry to sensing/manipulation in the biological sciences to viable solar energy conversion assemblies. The 2011 Gordon Research Conference on Photochemistry will highlight recent advances on photochemical reactions, their mechanisms, spectroscopic techniques and applications to materials, organic synthesis, and biology. The conference will continue its long tradition on dynamic discussions on recent advances and unsolved scientific problems. The format of lectures, poster presentations and informal discussions provides an ideal venue for students and post-doctoral fellows to interact with the leaders in the field. These junior scientists will have an opportunity to participate in the **Gordon Research Seminar on Photochemistry** to be held prior to the GRC. The GRS will focus on photochemical aspects of solar energy conversion. Four abstracts for posters at the GRC and presentations at the GRS will be selected as short talks at the GRC.

Contributors



SIGMA-ALDRICH®

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 - 7:40 pm	Welcome / Introductory Comments by GRC Site Staff
7:40 pm - 9:30 pm	Electron Transfer in Photochemistry Discussion Leader: Lin Chen (Argonne National Laboratories)
7:40 pm - 8:20 pm	Felix Castellano (Bowling Green State University) "Sensitized Upconversion through Regenerative Photochemistry"
8:20 pm - 8:35 pm	Discussion
8:35 pm - 9:15 pm	Michael Wasielewski (Northwestern University) "Using Spin to Probe and Control Long Distance Photoinitiated Electron Transfer"
9:15 pm - 9:30 pm	Discussion

MONDAY

7:30 am - 8:30 am	Breakfast
9:00 am - 12:30 pm	Spectroscopy and Dynamics Discussion Leader: Malcolm Forbes (University of North Carolina)
9:00 am - 9:40 am	Sharon Hammes-Schiffer (Penn State University) "Ultrafast Dynamics of Photoinduced Proton-Coupled Electron Transfer Reactions in Solution"
9:40 am - 9:55 am	Discussion
9:55 am	Group Photo / Coffee Break
10:15 am - 10:55 am	Glen Loppnow (University of Alberta) "Spectroscopic Probes of Photophysics and Photochemistry in DNA and RNA Nucleobases: The First Steps in Photochemistry and Beyond"
10:55 am - 11:10 am	Discussion
11:10 am - 11:50 am	Rajendra Rathore (Marquette University) "Electron and Exciton Transport through Cofacially-Arrayed Polybenzenoid Wires"

11:50 am - 12:05 pm	Discussion
12:05 pm - 12:25 pm	Masahide Terazima (Kyoto University) "Spectrally silent photochemistry is important for biological reactions"
12:25 pm - 12:30 am	Discussion
12:30 pm	Lunch
1:30 pm - 4:00 pm	Free Time
4:00 pm - 6:00 pm	<u>Poster Session</u>
6:00 pm	Dinner
7:30 pm - 9:30 pm	Supramolecular Photochemistry
	Discussion Leader: Challa V. Kumar (University of Connecticut)
7:30 pm - 8:10 pm	J. C. (Tito) Scaiano (University of Ottawa) "Using organic photochemistry to make nanoparticles and nanoparticles to direct organic chemistry"
8:10 pm - 8:25 pm	Discussion
8:25 pm - 9:05 pm	Sivaguru Jayaraman (North Dakota State University) "From Containers to Catalysts: Supramolecular Photocatalysis Within Cucurbiturils"
9:05 pm - 9:20 pm	Discussion

TUESDAY

7:30 am - 8:30 am	Breakfast
9:00 am - 12:30 pm	Biological Photochemistry
	Discussion Leader: Valentin Vullev (University of California, Riverside)
9:00 am - 9:40 am	Anna Krylov (University of Southern California) "The effect of environment on electronically excited and ionized states of the green fluorescent protein chromophore"
9:40 am - 9:55 am	Discussion
9:55 am	Coffee Break
10:15 am - 10:55 am	Lei Zhu (Florida State University) "5-Arylviny-2,2'-bipyridyls as Components in Indicators for Zinc Ion"
10:55 am - 11:10 am	Discussion
11:10 am - 11:50 am	Claudia Turro (Ohio State University) "Control of Excited States of Transition Metal Complexes for Applications in Biology"
11:50 am - 12:05 pm	Discussion
12:05 pm - 12:25 pm	Marina Kuimova (Imperial College London) "Molecular rotors measure intracellular viscosity"
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	<u>Poster Session</u>
6:00 pm	Dinner
7:30 pm - 9:30 pm	Imaging and Sensors
	Discussion Leader: Gonzalo Cosa (McGill University)
7:30 pm - 8:10 pm	Bruce Armitage (Carnegie Mellon) "Fluoromodules: Fluorescent Labels and Sensors Based on Noncovalent Dye-Protein Complexes"
8:10 pm - 8:25 pm	Discussion
8:25 pm - 9:05 pm	Samuel T. Hess (University of Maine) "Localization-Based Super-Resolution Fluorescence Imaging"
9:05 pm - 9:20 pm	Discussion

WEDNESDAY

7:30 am - 8:30 am	Breakfast
9:00 am - 12:30 pm	Reactions and Mechanisms
	Discussion Leader: William Jenks (Iowa State University)
9:00 am - 9:40 am	Anna Gudmundsdottir (University of Cincinnati) "Reactivity 1,2 Biradicals"
9:40 am - 9:55 am	Discussion
9:55 am	Coffee Break
10:15 am - 10:55 am	Jeffrey Rack (Ohio University) "Spectroscopy of Photochromic Ruthenium and Osmium Sulfoxide Complexes"
10:55 am - 11:10 am	Discussion
11:10 am - 11:50 am	Axel Griesbeck (University of Köln) "Photooxygenation in polymer and hydrogel environments: useful procedures for the synthesis for pharmaceutically active compounds"
11:50 am - 12:05 pm	Discussion
12:05 pm - 12:25 pm	Angel Marti (Rice University) "Monitoring of Amyloid beta Protein Fibrilization using Dipyridophenazine Ruthenium (II) Complexes"
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	<u>Poster Session</u>
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 - 9:30 pm

Solar Energy Conversion

Discussion Leader: **Maria Abrahamsson** (Chalmers University of Technology)

7:30 pm - 8:10 pm

Tom Moore (Arizona State University)

"Imagine* photosynthesis by rational design rather than evolution (*John Lennon)"

8:10 pm - 8:25 pm

Discussion

8:25 pm - 9:05 pm

Ksenija Glusac (Bowling Green State University)

"Excited-State Behavior of Flavin-Based Compounds"

9:05 pm - 9:20 pm

Discussion

THURSDAY

7:30 am - 8:30 am

Breakfast

9:00 am - 12:30 pm

Materials Photochemistry

Discussion Leader: **Clemens Burda** (Case Western Reserve University)

9:00 am - 9:40 am

Elena Galoppini (Rutgers)

"Viologens@Cucurbiturils in Solution and at Interfaces: Electrochromism and Fluorescence Properties"

9:40 am - 9:55 am

Discussion

9:55 am

Coffee Break

10:15 am - 10:55 am

David Waldeck (University of Pittsburgh)

"Energetics and Photoinduced Charge Transfer in Nanoparticle Assemblies"

10:55 am - 11:10 am

Discussion

11:10 am - 11:50 am

Alexandre Brolo (University of Victoria)

"Plasmonic materials and applications"

11:50 am - 12:05 pm

Discussion

12:05 pm - 12:25 pm

Julia Weinstein (University of Sheffield)

"Ultrafast Vibrational Spectroscopy, TRIR and (TR)2D-IR: An Insight into Photoinduced Charge Separation in Molecular Cascades"

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

Frontiers of Photochemistry

Discussion Leader: **Kirk Schanze** (University of Florida)

7:30 pm - 8:10 pm	Miguel Garcia-Garibay (UCLA) "Signal Amplification with a Gain by Quantum-Chain Reactions in Crystalline Solids"
8:10 pm - 8:30 pm	Discussion
8:30 pm - 9:10 pm	Josef Michl (University of Colorado) "Toward Singlet Fission Designed for Solar Cell Applications"
9:10 pm - 9:30 pm	Discussion

FRIDAY

7:30 am - 8:30 am	Breakfast
9:00 am	Departure

Photochemistry (2011)

Name	Organization	Participation	Status
ABRAHAMSSON, MARIA	CHALMERS UNIVERSITY OF TECHNOLOGY	Poster Presenter	Registered
ACHEY, DARREN C	JOHNS HOPKINS UNIVERSITY	Poster Presenter	Registered
AMELIA, MATTEO	UNIVERSITY OF BOLOGNA	Poster Presenter	Registered
ARMITAGE, BRUCE A	CARNEGIE MELLON UNIVERSITY	Speaker	Registered
ARMSTRONG, GAVIN R	NATURE CHEMISTRY	Attendee	Registered
AYITOU, ANOKLASE J	NORTH DAKOTA STATE UNIVERSITY	Poster Presenter	Registered
BANDARA, DHAMMIKA	UNIVERSITY OF CONNECTICUT	Poster Presenter	Registered
BAO, JIMING	UNIVERSITY OF HOUSTON	Poster Presenter	Registered
BOGOMOLNI, ROBERTO A	UNIVERSITY OF CALIFORNIA	Poster Presenter	Registered
BOHNE, CORNELIA	UNIVERSITY OF VICTORIA	Chair	Registered
BONIN, JULIEN	UNIVERSITE PARIS DIDEROT	Poster Presenter	Registered
BROLO, ALEXANDRE	UNIVERSITY OF VICTORIA	Speaker	Registered
BROWN, DOUGLAS J	US NAVAL ACADEMY	Attendee	Registered
BURDA, CLEMENS	CASE WESTERN RESERVE UNIVERSITY	Discussion Leader	Registered
CASTELLANO, FELIX N	BOWLING GREEN STATE UNIVERSITY	Speaker	Registered
CHALLA, JAGANNADHA R	UNIVERSITY OF ROCHESTER	Poster Presenter	Registered
CHAN, KWOK P	GENERAL ELECTRIC	Poster Presenter	Registered
CHEN, LIN X	ARGONNE NAT'L LAB/NORTHWESTERN UNIV.	Discussion Leader	Registered
COSA, GONZALO	MCGILL UNIVERSITY	Discussion Leader	Registered
DA SILVA, JOSE PAULO	UNIVERSITY OF ALGARVE	Poster Presenter	Registered
DAWN, SANDIPAN	UNIVERSITY OF SOUTH CAROLINA	Poster Presenter	Registered
DEMBSKA, ANNA R	CARNEGIE MELLON UNIVERSITY	Poster Presenter	Registered
DENG, FAN	BOWLING GREEN STATE UNIVERSITY	Poster Presenter	Registered
FARNUM, BYRON	JOHNS HOPKINS UNIVERSITY	Poster Presenter	Registered
FASCIANI, CHIARA	UNIVERSITY OF OTTAWA	Poster Presenter	Registered
FORBES, MALCOLM D.E.	UNIVERSITY OF NORTH CAROLINA	Discussion	Registered

		Leader	
GALOPPINI, ELENA	RUTGERS UNIVERSITY - NEWARK	Speaker	Registered
GARCIA-GARIBAY, MIGUEL A	UNIVERSITY OF CALIFORNIA, LOS ANGELES	Speaker	Registered
GIVENS, RICHARD S	UNIVERSITY OF KANSAS	Poster Presenter	Registered
GLUSAC, KSENIJA	BOWLING GREEN STATE UNIVERSITY	Speaker	Registered
GOERL, DANIEL	JULIUS-MAXIMILIANS-UNIVERSITÄT WÜRZBURG	Poster Presenter	Registered
GREER, ALEXANDER	CUNY BROOKLYN COLLEGE	Poster Presenter	Registered
GRIESBECK, AXEL G	UNIVERSITY COLOGNE	Speaker	Registered
GROZEMA, FERDINAND C	DELFT UNIVERSITY OF TECHNOLOGY	Poster Presenter	Registered
GRUSENMEYER, TOD A	TULANE UNIVERSITY	Poster Presenter	Registered
GRZESZKIEWICZ, CHARLOTTE	JULIUS-MAXIMILIANS-UNIVERSITÄT WÜRZBURG	Attendee	Registered
GUDMUNDSDOTTIR, ANNA D	UNIVERSITY OF CINCINNATI	Speaker	Registered
GUNBAS, DENIZ D	DELFT UNIVERSITY OF TECHNOLOGY	Poster Presenter	Registered
GUO, ZHI	ARIZONA STATE UNIVERSITY	Poster Presenter	Registered
GUPTA, SHIPRA	UNIVERSITY OF MIAMI	Poster Presenter	Registered
GUST, DEVENS	ARIZONA STATE UNIVERSITY	Poster Presenter	Registered
HAMMES-SCHIFFER, SHARON	PENNSYLVANIA STATE UNIVERSITY	Speaker	Registered
HAN, MINA	TOKYO INSTITUTE OF TECHNOLOGY	Poster Presenter	Registered
HARBON, ELIZABETH J	COLLEGE OF WILLIAM AND MARY	Poster Presenter	Registered
HARPHAM, MICHAEL R	ARGONNE NATIONAL LABORATORY	Poster Presenter	Registered
HESS, SAMUEL T	UNIVERSITY OF MAINE	Speaker	Registered
HONG, JONG-DAL	UNIV. OF INCHEON	Poster Presenter	Registered
HUSBAND, JOHN	SULTAN QABOOS UNIVERSITY	Poster Presenter	Registered
IMPELLIZZERI, STEFANIA	UNIVERSITY OF MIAMI	Poster Presenter	Registered
JAGER, WOLTER F	DELFT UNIVERSITY OF TECHNOLOGY	Poster Presenter	Registered
JAROCHA, LAUREN E	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	Poster Presenter	Registered

JAYARAMAN, SIVAGURU	NORTH DAKOTA STATE UNIVERSITY	Speaker	Registered
JENKS, WILLIAM S	IOWA STATE UNIVERSITY	Discussion Leader	Registered
JIN, SHENGYE	ARGONNE NATIONAL LABORATORY	Poster Presenter	Registered
JIN, YUHUAN	OHIO UNIVERSITY	Poster Presenter	Registered
JOCKUSCH, STEFFEN	COLUMBIA UNIVERSITY	Poster Presenter	Registered
JOHANSSON, PATRIK	JOHNS HOPKINS UNIVERSITY	Poster Presenter	Registered
KIM, HYEON-DEUK	KYOTO UNIVERSITY	Poster Presenter	Registered
KODER, RONALD L	THE CITY COLLEGE OF NEW YORK	Poster Presenter	Registered
KOHLER, BERN	MONTANA STATE UNIVERSITY	Vice Chair	Registered
KOMURLU, SEVNUR	UNIVERSITY OF FLORIDA	Poster Presenter	Registered
KOPFF, LAURA A	UNIVERSITY OF WISCONSIN-MADISON	Poster Presenter	Registered
KROPP, PAUL J	UNIVERSITY OF NORTH CAROLINA	Attendee	Registered
KRYLOV, ANNA I	UNIVERSITY OF SOUTHERN CALIFORNIA	Speaker	Registered
KUIMOVA, MARINA K	IMPERIAL COLLEGE LONDON	Poster Presenter	Registered
KULASEKHARAN, REVATHY	UNIVERSITY OF MIAMI	Poster Presenter	Registered
KUMAR, CHALLA V	UNIVERSITY OF CONNECTICUT	Discussion Leader	Registered
KUTATELADZE, ANDREI G	UNIVERSITY OF DENVER	Vice Chair	Registered
LA DEDA, MASSIMO	UNIVERSITY OF CALABRIA	Poster Presenter	Registered
LANDGRAF, STEPHAN	GRAZ UNIVERSITY OF TECHNOLOGY	Poster Presenter	Registered
LI, YI	CHINESE ACADEMY OF SCIENCES	Poster Presenter	Registered
LIAO, YI	UNIVERSITY OF CENTRAL FLORIDA	Poster Presenter	Registered
LISSAU, JONAS S	UPPSALA UNIVERSITY	Poster Presenter	Registered
LOCKARD, JENNY V	RUTGERS UNIVERSITY	Poster Presenter	Registered
LOPPNOW, GLEN R	UNIVERSITY OF ALBERTA	Speaker	Registered
LU, JIASHENG	QUEEN'S UNIVERSITY	Poster Presenter	Registered
MARTI, ANGEL A	RICE UNIVERSITY	Poster Presenter	Registered
MATSUBARA, YASUO	BROOKHAVEN NATIONAL LABORATORY	Poster	Registered

		Presenter	
MBATIA, HANNAH W	UNIVERSITY OF CONNECTICUT	Poster Presenter	Registered
MCCAMANT, DAVID W	UNIVERSITY OF ROCHESTER	Attendee	Registered
MCCULLA, RYAN D	SAINT LOUIS UNIVERSITY	Poster Presenter	Registered
MERESHCHENKO, ANDREY	BOWLING GREEN STATE UNIVERSITY	Poster Presenter	Registered
MEYER, GERALD J	JOHNS HOPKINS UNIVERSITY	Vice Chair	Registered
MICHL, JOSEF	UNIVERSITY OF COLORADO & CZECH ACADEMY OF SCIENCES	Speaker	Registered
MONTES, VICTOR A	PPG INDUSTRIES	Attendee	Registered
MOORE, THOMAS A	ARIZONA STATE UNIVERSITY	Speaker	Registered
MUTTER, ANDREW C	THE CITY COLLEGE OF NEW YORK	Poster Presenter	Registered
NATARAJAN, ARUNKUMAR	GE GLOBAL RESEARCH	Poster Presenter	Registered
NAUMOV, PANCHE	OSAKA UNIVERSITY	Poster Presenter	Registered
NISHIYAMA, YASUHIRO	NARA INSTITUTE OF SCIENCE AND TECHNOLOGY	Poster Presenter	Registered
O'DONNELL, RYAN M	JOHNS HOPKINS UNIVERSITY	Poster Presenter	Registered
PARK, JAEHONG	UNIVERSITY OF PENNSYLVANIA / DUKE UNIVERSITY	Poster Presenter	Registered
PARTHASARATHY, ANAND	UNIVERSITY OF FLORIDA	Poster Presenter	Registered
PEMBERTON, BARRY C	NORTH DAKOTA STATE UNIVERSITY	Poster Presenter	Registered
POREL, MINTU	UNIVERSITY OF MIAMI	Poster Presenter	Registered
PRUSAKOVA, VALENTINA	BOWLING GREEN STATE UNIVERSITY	Poster Presenter	Registered
PTASZEK, MARCIN	UNIVERSITY OF MARYLAND BALTIMORE COUNTY	Poster Presenter	Registered
RACHFORD, AARON A	THE DOW CHEMICAL COMPANY	Attendee	Registered
RACK, JEFFREY J	OHIO UNIVERSITY	Speaker	Registered
RAMAMURTHY, VAIDHYANATHA	UNIVERSITY OF MIAMI	Attendee	Registered
RATHORE, RAJENDRA	MARQUETTE UNIVERSITY	Speaker	Registered
REGO, LUIS GC	UFSC	Poster Presenter	Registered
REILLY, JOHN T	FLORIDA GULF COAST UNIVERSITY	Poster Presenter	Registered
RHINEHART, JUSTIN M	UNIVERSITY OF ROCHESTER	Poster Presenter	Registered
RICCIARDI, LOREDANA	UNIVERSITY OF CALABRIA	Poster	Registered

		Presenter	
RINCO, OLGA	LUTHER COLLEGE	Poster Presenter	Registered
ROCHFORD, JONATHAN J	UNIVERSITY OF MASSACHUSETTS BOSTON	Poster Presenter	Registered
ROLCZYNSKI, BRIAN S	NORTHWESTERN UNIVERSITY	Poster Presenter	Registered
SABATINI, RANDY P	UNIVERSITY OF ROCHESTER	Poster Presenter	Registered
SALTIEL, JACK	FLORIDA STATE UNIVERSITY	Poster Presenter	Registered
SAMANTA, SHAMPA R	UNIVERSITY OF MIAMI	Poster Presenter	Registered
SARACINI, CLAUDIO	JOHNS HOPKINS UNIVERSITY	Poster Presenter	Registered
SCAIANO, JUAN C	UNIVERSITY OF OTTAWA	Speaker	Registered
SCHANZE, KIRK S	UNIVERSITY OF FLORIDA	Discussion Leader	Registered
SCHMEDAKE, THOMAS A	UNIVERISTY OF NORTH CAROLINA - CHARLOTTE	Poster Presenter	Registered
SCHMEHL, RUSSELL H	TULANE UNIVERSITY	Poster Presenter	Registered
SCHMIDT, ROBERT D	THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	Poster Presenter	Registered
SCHMIDTKE, SARAH J	THE COLLEGE OF WOOSTER	Poster Presenter	Registered
SEKIZAWA, KEITA	TOKYO INSTITUTE OF TECHNOLOGY	Poster Presenter	Registered
SEVINC, PAPATYA	BOWLING GREEN STATE UNIVERSITY	Poster Presenter	Registered
SHAMAEV, ALEXEI E	BOWLING GREEN STATE UNIVERSITY	Poster Presenter	Registered
SHERIN, PETR S	UNIVERSITY OF GENEVA	Poster Presenter	Registered
SHOJI, SUNAO	RITSUMEIKAN UNIVERSITY	Poster Presenter	Registered
SOLNTSEV, KYRIL M	GEORGIA TECH	Poster Presenter	Registered
SUN, WENFANG	NORTH DAKOTA STATE UNIVERSITY	Poster Presenter	Registered
TAHERI, ATEFEH	THE JOHNS HOPKINS UNIVERSITY	Poster Presenter	Registered
TAMAKI, YUSUKE	TOKYO INSTITUTE OF TECHNOLOGY	Poster Presenter	Registered
TERAI, TAKUYA	THE UNIVERSITY OF TOKYO	Poster Presenter	Registered
TERAZIMA, MASAhide	KYOTO UNIVERSITY	Poster Presenter	Registered

TIAN, FENG	UNIVERSITY OF CAMBRIDGE	Poster Presenter	Registered
TOMASULO, MASSIMILIANO	PPG	Attendee	Registered
TURRO, CLAUDIA	OHIO STATE UNIVERSITY	Speaker	Registered
UPADHYAYULA, SRIGOKUL	UNIVERSITY OF CALIFORNIA, RIVERSIDE	Poster Presenter	Registered
VULLEV, VALENTINE I	UNIVERSITY OF CALIFORNIA, RIVERSIDE	Discussion Leader	Registered
WALDECK, DAVID H	UNIVERSITY OF PITTSBURGH	Speaker	Registered
WANG, JIN	BAYLOR COLLEGE OF MEDICINE	Attendee	Registered
WANG, CHEN	UNIVERSITY OF CALIFORNIA, SAN DIEGO	Poster Presenter	Registered
WASIELEWSKI, MICHAEL R	NORTHWESTERN UNIVERSITY	Speaker	Registered
WEE, TSE-LUEN (ERIKA)	UNIVERSITY OF OTTAWA	Poster Presenter	Registered
WEIDINGER, DANIEL	NAVAL RESEARCH LABORATORY	Poster Presenter	Registered
WEINSTEIN, JULIA A	UNIVERSITY OF SHEFFIELD, UK	Poster Presenter	Registered
WILLIAMS, J A GARETH	UNIVERSITY OF DURHAM	Poster Presenter	Registered
WILSON, R. MARSHALL	BOWLING GREEN STATE UNIVERSITY	Poster Presenter	Registered
YANAGISAWA, YUUKI	NARA INSTITUTE OF SCIENCE AND TECHNOLOGY	Poster Presenter	Registered
YANG, GUOQIANG	CHINESE ACADEMY OF SCIENCES	Poster Presenter	Registered
ZHOU, DAPENG	BOWLING GREEN STATE UNIVERSITY	Poster Presenter	Registered
ZHU, LEI	FLORIDA STATE UNIVERSITY	Speaker	Registered
147 Attendees			