Cellulose and Renewable Materials Division Newsletter
A Division of the American Chemical Society

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http://cell.sites.acs.org
Letter from the Division Chair

Hello everyone! My name is Steve Eichhorn, and I am excited to serve as the Chair of the ACS Division of Cellulose and Renewable Materials (ACS CELL) in 2018.

We start 2018 looking forward to spring, not least because the weather (here in the UK) will warm then, but I expect to be feeling some sunshine in March at our Spring meeting in New Orleans. We are delighted to announce that at this meeting one of our members, Emily Cranston (McMaster University), will deliver the junior KAVLI lectureship. This is an incredible achievement for Emily, but also great publicity for our division, showcasing outstanding cellulose science. At the meeting we will also look forward to awarding the KINGFA award, the ACS Fellow award(s), and the Anselme Payen award. Details and biographies of all recipients of our awards can be found on our website http://cell.sites.acs.org/. On the subject of our website, I heard informally that it has been highly recommended by other ACS division chairs, especially the ability to view it on a mobile phone! Thanks go to Koon-Yang Lee for all his hard work on updating it. Finally, thanks to Maren Roman for putting together the programme for the Spring meeting. It looks to be a great set of talks, posters and events, and I’m looking forward to seeing many of you in New Orleans! The Division of Cellulose and Renewable Materials (CELL) has a vision to be “Inspiring bio-based solutions for a sustainable future”. Our mission is to be leading and supporting innovation in cellulose & renewable materials by providing a forum for our members to excel in the chemical sciences and technology. But we rely on our members to deliver this mission. In that sense, although we have a management structure, staffed by volunteers, we are always looking for your help as members to direct our division and suggest ways in which we can serve you more. Having said that we do currently have a number of roles within the community.

What does the Division of Cellulose and Renewable Materials do?
• Organize and sponsor CELL programming at ACS National Meetings and Exposition, including special symposia, award symposia, and poster sessions. On occasion, we participate in joint symposia with other divisions, including recent and popular joint symposia with CARB, POLY, PMSE. Please continue to submit abstracts for ACS CELL programming!
• Organize and sponsor symposia at international meetings dedicated to cellulose and renewable materials, such as the International Cellulose Conference (ICC) in Japan, International Carbohydrate Symposia, EPNOE (European Polysaccharide Network of Excellence), etc.;
• Produce the biannual ACS CELL Newsletter (Fibril Angle) that is distributed to members a month before the ACS National Meeting;
• Support other ACS symposia relevant to cellulose chemistry and glycosciences, including the ACS Division of Professional Relations, ACS Undergraduate Chemistry Students, ACS Regional Meetings, etc.;
• Provide opportunities for early career researchers, and undergraduate chemists, for example, travel awards and poster awards;
• Organize and support award programs, including the Anselme Payen Award, the KINGFA award, the Division Fellow Award, Graduate Student Award, Poster Awards, Student Travel Award. With the ACS Sustainable Chemistry and Engineering journal we jointly award lectureships at our Spring Meeting.

Visit our website for more information: http://cell.sites.acs.org/

Why should you join the CELL Division?

• Membership benefits include access to the Members section of our website, http://cell.sites.acs.org/, for networking, chemistry discussions and latest news/events;
• Additional membership benefits include: 1) advertisement for position openings or seeking new employment, and 2) receipt of CELL emails with news as well as reminders of important deadlines.
• Your annual dues ($15 for regular members, free for students) help us, as a non-profit organization run by volunteers, to support our mission and run the excellent programs described within.

***You do not have to be an ACS member to become a member and supporter of the CELL Division! Join CELL here - http://cell.sites.acs.org/.

How can you get involved in CELL?

We are a volunteer organization and encourage you to get engaged. Attend or submit an abstract to present at CELL sessions at ACS National Meetings. Submit a symposium proposal for CELL session at an ACS National Meeting or an ACS Regional Meeting. Request financial support for conferences and symposia that you are planning to organize within or outside the ACS. Nominate someone for a CELL professional, student and postdoc for an award (See Awards & Fellowships on the CELL website). Volunteer to run for an elected position on the CELL Executive Committee (contact our Chair-Elect, Dr. Gordon Selling, Gordon.Selling@ARS.USDA.GOV). Help us with our social media presence. Ask me or any Executive Committee member to implement your idea(s) to continually shape CELL for the future.

For more information, contact any Executive Committee member.

I look forward to serving you and our cellulose and renewable materials community.
Division News

Elections
The CELL Division recently held an election for a number of officer roles within the division. After a strong competition for a number of roles, the Division is pleased to announce that the following people have been elected to serve the division:

- Treasurer: World Nieh
- Councilor: Sheila Murphy
- Alternate Councilor: Lucian Lucia
- Member-at-Large: Ulrica Edlund

The CELL Division also welcomes Professor Ulrica Edlund to the division. The officers will take up their new or re-elected positions as of 1st January 2018 and serve for a period of 3 years before an election is called again.

Awards

2017 ChemLuminary Awards
CELL Division and Louisiana Local Section are awarded the Joint Local Section Activities (LSAC) & Divisional Activities (DAC) award in the 2017 ChemLuminary Awards. The Division of Cellulose and Renewable Materials (CELL) and Louisiana Local Section, along with the Division of Carbohydrate Chemistry, staged the 2016 International Carbohydrate Symposium offering 500 attendees from 39 countries awards symposia, plenary and keynote lectures, oral presentations, posters, and local sightseeing. This collaboration served as an outstanding example of how a local section and multiple divisions can work together to produce successful programs.

2017 Anselme Payan Award
The 2017 Anselme Payan Award winner is Dr. Junji Sugiyama, Professor in the Research Institute for Sustainable Humanosphere at Kyoto University. Dr. Sugiyama will be presented with the award at the ACS Division Cellulose and Renewable Materials Awards Banquet following a symposium in his honor during the 2018 ACS Spring National Meeting in New Orleans, LA.

Dr. Sugiyama’s research interests include structure, biogenesis, biochemistry, and biophysics of cellulose microfibrils with particular emphasis of the state-of-the-art techniques for electron microscopy and crystallography. His pioneering visualization of cellulose crystal lattices by high-resolution electron microscopy clearly eliminated previous current concepts of “chain folding” and the "universal elementary fibril". His seminal definition of the two lattices of Iα and Iβ is the basis for current crystallographic models of cellulose allomorphs. Moreover, his determination
of molecular directionality of a given microfibril allowed an exploration of how cellulose and related polysaccharides are generated and degraded by the corresponding enzymes. He has served on the editorial board of Cellulose (since 1994), and has co-authored over 200 publications, 15 patents, and several textbooks in the field of wood science and technology.

2017 KINGFA Young Investigator Award
The ACS CELL Division is pleased to announce that Dr. Liangbing Hu, Associate Professor at University of Maryland College Park, has been selected as the winner of the 2017 KINGFA Young Investigator Award. Dr. Hu has made innovative and significant contributions in several fronts of wood nanocellulose-based technologies to replace plastic, glass, and steel as well as 3D carbon for beyond-Li ion batteries and clean water. Dr. Hu has 6 patents/patent applications associated with the technologies hereafter. Dr. Hu is the founding director of the Center for Advanced Paper and Textile at the University of Maryland College Park. He is also the Co-founder of Inventwood Inc. with efforts to further commercialize the aforementioned cellulose nanotechnologies. As the recipient of this award, Dr. Hu will receive $1,500 and a plaque, to be given at the 2018 CELL Division Awards Banquet in New Orleans.

2017 ACS Fellow Award
Two members of the CELL Division have won the 2017 ACS Fellow Award. They are Dr Lucian Lucia (from North Carolina State University and Qilu University of Technology) and Dr James Wang (Sinopec Shanghai Research Institute of Petrochemical Technology). Congratulations to both of them!

2018 Graduate Student Awards
Katrin Niegelhell and Zhiyu Xia have won 1st and 2nd place in the 2018 ACS CELL Division' Graduate Student Award.

Katrin Niegelhell works in the Institute for Chemistry and Technology of Materials and the Institute for Paper, Pulp and Fibre Technology at Graz University of Technology under the supervision of Dr Stefan Spirk. Her research focuses on the investigation of interactions at polysaccharide and biopolymer surface/interfaces with the aim to understand the fundamental phenomena associated with these interactions. Her award winning publication is titled "Enzymes as biodevelopers for nano- and micro-patterned bicomponent biopolymer thin films" (Biomacromol. 2016, 3743).
Zhiyu Xia works in the Department of Plastics Engineering at University of Massachusetts Lowell. His research focuses on the understanding of the modes of action of flame retardants, which has potential in identifying renewable feedstock that can be utilized for the synthesis of novel and safer flame retardant alternatives. His award winning publication is titled "Unraveling the mechanism of thermal and thermo-oxidative degradation of tannic acid" (Thermochimica Acta 2015, 77).

2018 ACS Spring Meeting, New Orleans, LA – CELL Program and Events

This year's program of the Cellulose and Renewable Materials Division at the 255th ACS National Meeting in New Orleans, LA, to be held March 18-22th 2018, comprises of 16 symposiums with 380 oral and 55 poster presentations. The CELL Division Separates Table of content can be found at the end of this newsletter.

KINGFA Young Investigator Award Lecture - Sunday, March 18th, 4:15PM

Dr Liangbing Hu KINGFA Young Investigator Award lecture will be held at St. Landry, Loews New Orleans Hotel. The title of his lecture is “Nanocellulose for nanotechnologies”.

Kavli Foundation Emerging Leader in Chemistry Lecture – Monday, March 19th, 4:00PM

Dr Emily Cranston has been selected to be the junior KAVLI speaker at the ACS Spring meeting in New Orleans 2018! The title of her lecture is “Transforming nanocellulose into sustainable products through surface engineering”. Her lecture will be held at Great Hall A, Ernest N. Morial Convention Center.

Anselme Payan Award Lecture – Tuesday, March 20th, 4:00PM

Professor Sugiyama’s Anselme Payan Award lecture will be held at LaFourche/Pointe Coupee, Loews New Orleans Hotel. The tile of his lecture is “An electron crystallographer of cellulose microfibrils - revisit and hereafter”.

CELL Division Awards Banquet – Tuesday, March 20th, 6:00PM

The Division of Cellulose and Renewable Materials Anselme Payen Award Banquet will be held at Pat O’Brien’s Pat O’s on the River (http://www.patobriens.com/patobriens/neworleans/), located at 600 Decatur St - 3rd Floor, New Orleans, LA 70130. The highlight of the evening will be the presentation of the 2017 Anselme Payen Award to Professor Junji Sugiyama. Please join us on this joyful occasion as we celebrate with Professor Sugiyama and our fellow CELL division members.
This is a ticket-only event; tickets can be purchased through the ACS National Meeting registration process for $75/ticket. To purchase a banquet ticket, please go to the Social Events section of the National Meeting & Exposition registration package. Scroll down to Tuesday, March 20th, and check the CELL Division Award Banquet to purchase a ticket. Your tickets will be issued with your registration documents. Please bring the ticket for entry to the event. If you require help purchasing the tickets please contact Peney Patton (acs_cell@hotmail.com).

**CELL Division Open Business Meeting – Wednesday, March 21st, 5:30PM**

The Division’s Executive Committee would like to extend an invitation and encourage everyone to attend our Open Business meeting. This is your chance to learn about ongoing activities within the division, share your viewpoints, and influence the future of the division. This meeting will be held at Loews New Orleans Hotel, Lafourche room.

**255th ACS Spring National Meeting, Division of Cellulose and Renewable Materials Separates Table of Contents**

American Chemical Society  
Division of Cellulose and Renewable Materials  
255th ACS National Meeting, New Orleans, LA, March 18-22, 2018 Spring Meeting  
M. Roman, Program Chair

**SUNDAY MORNING**

Cellulose & Other Structural Biopolymers: Structure, Formation & Degradation: Anselme Payen Award Symposium in Honor of Junji Sugiyama  
U. P. Agarwal, Organizer; R. H. Atalla, Organizer; H. Chanzy, Organizer; A. Isogai, Organizer; A. D. French, Presiding; S. Renneckar, Presiding Papers 1-8

New Horizons in Sustainable Materials  
S. M. Murphy, Organizer; M. Roman, Organizer; M. Roman, Presiding; S. M. Murphy, Presiding Papers 9-16

Frontiers in Glycoscience, Bridging the Gap Between Carbohydrate & Polysaccharide Chemistries  
H. Kamitakahara, Organizer; C. Wong, Organizer; G. Boons, Presiding; A. Dell, Presiding; J. C. Paulson, Presiding; L. C. Hsieh-Wilson, Presiding Papers 17-24

Failed Brilliance in Nanocellulose Science & Technology  
A. Bismarck, Organizer; E. Kontturi, Organizer; K. Lee, Organizer; A. Bismarck, Presiding; K. Lee, Presiding Papers 25-32

Wood-Based Materials for Energy & Water
SUNDAY AFTERNOON

Cellulose & Other Structural Biopolymers: Structure, Formation & Degradation: Anselme Payen Award Symposium in Honor of Junji Sugiyama
U. P. Agarwal, Organizer; R. H. Atalla, Organizer; H. Chanzy, Organizer; A. Isogai, Organizer; L. Salmén, Presiding; T. Saito, Presiding Papers 41-48

New Horizons in Sustainable Materials
S. M. Murphy, Organizer; M. Roman, Organizer; M. Roman, Presiding; S. M. Murphy, Presiding Papers 49-56

Frontiers in Glycoscience, Bridging the Gap Between Carbohydrate & Polysaccharide Chemistries
H. Kamitakahara, Organizer; C. Wong, Organizer; Y. Ito, Presiding; A. Planas, Presiding; B. G. Davis, Presiding; M. Aebi, Presiding Papers 57-64

Assembly & Colloidal Interactions of Cellulose Nanocrystals
C. Schütz, Organizer; W. Thielemans, Organizer; W. Thielemans, Presiding Papers 65-72

Wood-Based Materials for Energy & Water
L. Hu, Organizer; S. Lee, Organizer; L. Nyholm, Organizer; Z. Ren, Organizer; L. Wagberg, Organizer; J. Zhu, Organizer; F. Jiang, Presiding; L. Wagberg, Presiding Papers 73-80

SUNDAY EVENING

General Posters
M. Roman, Organizer; Papers 81-135

MONDAY MORNING

Cellulose & Other Structural Biopolymers: Structure, Formation & Degradation: Anselme Payen Award Symposium in Honor of Junji Sugiyama
U. P. Agarwal, Organizer; R. H. Atalla, Organizer; H. Chanzy, Organizer; A. Isogai, Organizer; K. J. Edgar, Presiding; A. Isogai, Presiding Papers 136-143

2018 ACS Sustainable Chemistry & Engineering Lectureship Awards: Symposium in honor of Rafael Luque
S. O. Obare, Organizer; G. Beckham, Presiding; S. O. Obare, Presiding Papers 144-151

Frontiers in Glycoscience, Bridging the Gap Between Carbohydrate & Polysaccharide Chemistries
H. Kamitakahara, Organizer; C. Wong, Organizer; K. J. Edgar, Presiding; T. J. Heinze, Presiding; L. L. Kiessling, Presiding; L. Wang, Presiding Papers 152-159
Assembly & Colloidal Interactions of Cellulose Nanocrystals  
C. Schütz, Organizer; W. Thielemans, Organizer; W. Thielemans, Presiding  
Papers 160-167

Wood-Based Materials for Energy & Water  
L. Hu, Organizer; S. Lee, Organizer; L. Nyholm, Organizer; Z. Ren, Organizer; L. Wagberg, Organizer; J. Zhu, Organizer; H. Zhu, Presiding; L. Nyholm, Presiding  
Papers 168-175

MONDAY AFTERNOON

Cellulose & Other Structural Biopolymers: Structure, Formation & Degradation: Anselme Payen Award Symposium in Honor of Junji Sugiyama  
U. P. Agarwal, Organizer; R. H. Atalla, Organizer; H. Chanzy, Organizer; A. Isogai, Organizer; T. Larsson, Presiding; T. Kondo, Presiding  
Papers 176-181

Lignin: From Fundamentals to New Materials & Applications  
C. Crestini, Organizer; H. Lange, Organizer; M. Mattinen, Organizer; M. Sipponen, Organizer; M. K. Osterberg, Organizer; S. Sarkanen, Presiding; M. K. Osterberg, Presiding  
Papers 182-187

Frontiers in Glycoscience, Bridging the Gap Between Carbohydrate & Polysaccharide Chemistries  
H. Kamitakahara, Organizer; C. Wong, Organizer; H. Kamitakahara, Presiding; C. Wong, Presiding  
Papers 188-193

Assembly & Colloidal Interactions of Cellulose Nanocrystals  
C. Schütz, Organizer; W. Thielemans, Organizer; W. Thielemans, Presiding  
Papers 194-199

Sustainable Production & Processing of Agricultural Crops: The Food, Energy, Water Nexus  
A. Ayoub, Organizer; B. Ghotra, Organizer; L. A. Lucia, Organizer; T. Younos, Organizer; A. Ayoub, Presiding  
Papers 200-205

MONDAY EVENING

Sci-Mix  

TUESDAY MORNING

Cellulose & Other Structural Biopolymers: Structure, Formation & Degradation: Anselme Payen Award Symposium in Honor of Junji Sugiyama  
U. P. Agarwal, Organizer; R. H. Atalla, Organizer; H. Chanzy, Organizer; A. Isogai, Organizer; S. H. Kim, Presiding; T. Rosenau, Presiding  
Papers 206-213
Lignin: From Fundamentals to New Materials & Applications  
C. Crestini, Organizer; H. Lange, Organizer; M. Mattinen, Organizer; M. Sipponen, Organizer; M. K. Osterberg, Organizer; H. Lange, Presiding; C. Crestini, Presiding  
Papers 214-221

2018 ACS Sustainable Chemistry & Engineering Lectureship Awards: Symposium in honor of Ning Yan  
J. Zhang, Organizer; J. Zhang, Presiding  
Papers 222-229

Biobased Water Purification System Approaches  
H. Jameel, Organizer; N. S. Simon, Organizer; R. Gonzalez, Presiding; L. A. Lucia, Presiding  
Papers 230-237

Sustainable Production & Processing of Agricultural Crops: The Food, Energy, Water Nexus  
A. Ayoub, Organizer; B. Ghotra, Organizer; L. A. Lucia, Organizer; T. Younos, Organizer; A. Ayoub, Presiding  
Papers 238-245

TUESDAY AFTERNOON

Cellulose & Other Structural Biopolymers: Structure, Formation & Degradation: Anselme Payen Award Symposium in Honor of Junji Sugiyama  
U. P. Agarwal, Organizer; R. H. Atalla, Organizer; H. Chanzy, Organizer; A. Isogai, Organizer; U. P. Agarwal, Presiding; Y. Nishiyama, Presiding  
Papers 246-252

Lignin: From Fundamentals to New Materials & Applications  
C. Crestini, Organizer; H. Lange, Organizer; M. Mattinen, Organizer; M. Sipponen, Organizer; M. K. Osterberg, Organizer; D. Da Silva Perez, Presiding; C. Crestini, Presiding  
Papers 253-258

Functional Structures from Wood-Based Materials  
M. K. Ek, Organizer; E. Filpponen, Organizer; T. Nypel, Organizer; S. Spirk, Organizer; J. O. Zoppe, Organizer; S. Spirk, Presiding; M. K. Ek, Presiding  
Papers 259-264

Valorization of Renewable Resources & Residuals into New Materials & Multiphase Systems  
M. L. Auad, Organizer; J. Campos-Teran, Organizer; O. Rojas, Organizer; M. L. Auad, Presiding  
Papers 265-270

Sustainable Production & Processing of Agricultural Crops: The Food, Energy, Water Nexus  
A. Ayoub, Organizer; B. Ghotra, Organizer; L. A. Lucia, Organizer; T. Younos, Organizer; A. Ayoub, Presiding  
Papers 271-276

WEDNESDAY MORNING
Plant Heteropolysaccharides: Interactions within Lignocellulosics, New Modifications & Future Applications
K. S. Mikkonen, Organizer; M. Tenkanen, Organizer; F. Vilaplana, Organizer; F. Vilaplana, Presiding; M. Tenkanen, Presiding Papers 277-283

Lignin: From Fundamentals to New Materials & Applications
C. Crestini, Organizer; H. Lange, Organizer; M. Mattinen, Organizer; M. Sipponen, Organizer; M. K. Osterberg, Organizer; M. K. Osterberg, Presiding; H. Lange, Presiding Papers 284-291

Functional Structures from Wood-Based Materials
M. K. Ek, Organizer; E. Filipponen, Organizer; T. Nypelo, Organizer; S. Spirk, Organizer; J. O. Zoppe, Organizer; W. Bauer, Presiding; T. Nypelo, Presiding Papers 292-299

Valorization of Renewable Resources & Residuals into New Materials & Multiphase Systems
M. L. Auad, Organizer; J. Campos-Teran, Organizer; O. Rojas, Organizer; J. Campos-Teran, Presiding Papers 300-307

Biobased Gels & Porous Materials
T. Budtova, Organizer; F. Liebner, Organizer; F. Liebner, Presiding; S. J. Eichhorn, Presiding Papers 308-315

WEDNESDAY AFTERNOON

Plant Heteropolysaccharides: Interactions within Lignocellulosics, New Modifications & Future Applications
K. S. Mikkonen, Organizer; M. Tenkanen, Organizer; F. Vilaplana, Organizer; U. Edlund, Presiding; K. S. Mikkonen, Presiding Papers 316-323

Lignin: From Fundamentals to New Materials & Applications
C. Crestini, Organizer; H. Lange, Organizer; M. Mattinen, Organizer; M. Sipponen, Organizer; M. K. Osterberg, Organizer; D. Argyropoulos, Presiding; M. Sipponen, Presiding Papers 324-331

Functional Structures from Wood-Based Materials
M. K. Ek, Organizer; E. Filipponen, Organizer; T. Nypelo, Organizer; S. Spirk, Organizer; J. O. Zoppe, Organizer; J. O. Zoppe, Presiding; I. Filipponen, Presiding Papers 332-339

Valorization of Renewable Resources & Residuals into New Materials & Multiphase Systems
M. L. Auad, Organizer; J. Campos-Teran, Organizer; O. Rojas, Organizer; D. Estenoz, Presiding Papers 340-347

Biobased Gels & Porous Materials
T. Budtova, Organizer; F. Liebner, Organizer; N. Baccile, Presiding; C. Freire, Presiding Papers 348-355
THURSDAY MORNING

**Advances in Bacterial (Nano)Cellulose Research**
M. Gama, Organizer; D. O. Klemm, Presiding; T. Rosenau, Presiding Papers 356-363

**Lignin: From Fundamentals to New Materials & Applications**
C. Crestini, Organizer; H. Lange, Organizer; M. Mattinen, Organizer; M. Sipponen, Organizer; M. K. Osterberg, Organizer; M. K. Osterberg, Presiding; M. Mattinen, Presiding Papers 364-371

**Functional Structures from Wood-Based Materials**
M. K. Ek, Organizer; E. Filpponen, Organizer; T. Nypelo, Organizer; S. Spirk, Organizer; J. O. Zoppe, Organizer; M. Laborie, Presiding; I. Filpponen, Presiding Papers 372-379

**Valorization of Renewable Resources & Residuals into New Materials & Multiphase Systems**
M. L. Auad, Organizer; J. Campos-Teran, Organizer; O. Rojas, Organizer; O. Rojas, Presiding Papers 380-387

**Biobased Gels & Porous Materials**
T. Budtova, Organizer; F. Liebner, Organizer; J. Bras, Presiding; K. Syverud, Presiding Papers 388-395

THURSDAY AFTERNOON

**Advances in Bacterial (Nano)Cellulose Research**
D. O. Klemm, Organizer; T. Rosenau, Organizer; M. Gama, Presiding; S. Bielecki, Presiding Papers 396-403

**Lignin: From Fundamentals to New Materials & Applications**
C. Crestini, Organizer; H. Lange, Organizer; M. Mattinen, Organizer; M. Sipponen, Organizer; M. K. Osterberg, Organizer; M. K. Osterberg, Presiding; M. Mattinen, Presiding Papers 404-411

**Functional Structures from Wood-Based Materials**
M. K. Ek, Organizer; E. Filpponen, Organizer; T. Nypelo, Organizer; S. Spirk, Organizer; J. O. Zoppe, Organizer; M. K. Ek, Presiding; J. O. Zoppe, Presiding Papers 412-419

**Valorization of Renewable Resources & Residuals into New Materials & Multiphase Systems**
M. L. Auad, Organizer; J. Campos-Teran, Organizer; O. Rojas, Organizer; I. Vega Erramuspe, Presiding Papers 420-427

**Biobased Gels & Porous Materials**
T. Budtova, Organizer; F. Liebner, Organizer; P. E. Fardim, Presiding; T. Budtova, Presiding Papers 428-435
Upcoming Conferences

XXIX International Carbohydrate Symposium
July 15th – 19th, 2018
Lisbon, Portugal
http://www.ics2018.eventos.chemistry.pt

15th International Symposium on Bioplastics, Biocomposites and Biorefining
July 24th – 27th, 2018
Guelph, Canada
http://www.isbbb.org

256th American Chemical Society National Meeting
August 19th – 23rd, 2018
Boston, Massachusetts

2018 8th Nordic Wood Biorefinery Conference
October 23rd – 25th, 2018
Helsinki, Finland