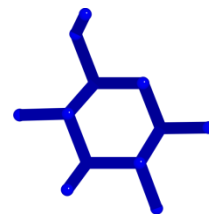


Cellulose and Renewable Materials Division Newsletter



A Division of the American Chemical Society

Division Officials

Chair: Sheila Murphy

Chair-Elect: Stephen Eichhorn

Immediate Past Chair:
Lucian Lucia

Secretary: Michael Santiago

Treasurer: World L-S Nieh

Councilors:

Kevin J. Edgar

Lucian Lucia

Scott Renneckar

Alternate Councilors:

Gordon Selling

Tom Elder

Noureddine Abidi

Program Chair: Maren Roman

Program Chair Designate:
Wim Thielemans

Technical Program

Administrator:

Peney Patton

Awards Chairs: Monica Ek

Events Chair:

Nicole Robitaille Brown

Membership Chair:

Johan Foster

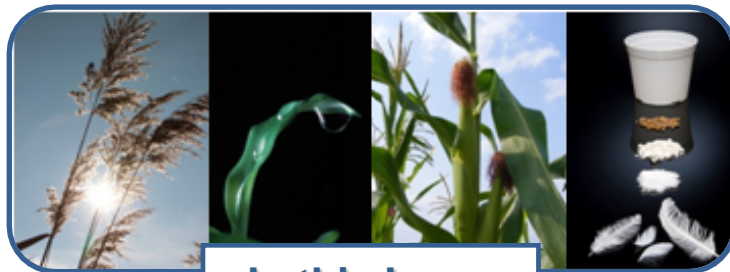
Publicity Chair: Carter Fox

Members-at-Large:

Nicole Robitaille Brown

Falk Liebner

Maria Soledad Peresin



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Letter from the Division Chair

Chair (2015 – 2016): Sheila Murphy

I am looking forward to attending our Spring National Meeting and eager to hear the exciting work presented in our symposia. I thank our out-going Program Chair, Chip Frazier for his dedication and efforts in organizing the 2015 and 2016 Spring Programs and welcome our new Program Chair, Maren Roman, and Program Chair Designate, Wim Thielemans into their roles. I am sure they will want to hear your suggestions for program topics and if you are interested in organizing a future symposium.



Sheila Murphy

Since the last newsletter the Executive Team have worked tirelessly on updating the division's bylaws. This was prompted by our success in establishing the new KINGFA Young Investigator Award. While this is still work-in-progress I will be happy to share our suggestions at the Open Business Meeting.

In review of our status at the end of 2015 it is a pleasure to see membership has doubled over the last five years. We have a global membership that we are proud to serve. The Executive Committee includes several international scientists, consistent with our desire to have the Executive Committee representative of the membership as a whole. Can we do better? Of course we can, and we will strive to improve our international collaboration through meaningful events and a strong focus on our core science. If you have any suggestions for international collaborations please let me know.

This year a few members will join me in a Strategic Planning Retreat ahead of the National Meeting. The purpose of this retreat is to review the opportunities and challenges the division faces. The team will seek to prepare an action plan to address issues of importance to the division in order that we continue to focus on our scientific core strength, while permitting the division to explore emerging adjacent areas of interest, and other meaningful deliverables to share with our membership.

Our Division is only as strong and as successful as our membership and their involvement and leadership. Please consider getting involved; make a note in your calendars to join us at the Open Business Meeting, Wednesday, 5:30 pm Leucadia Room, Marriott Marquis, San Diego Marina. See you there!

Division News

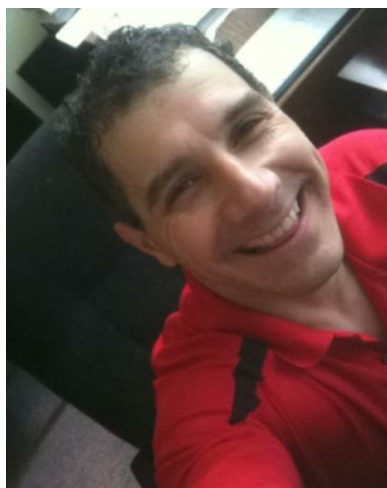
Elections

The Cellulose and Renewable Materials Division held elections late last year to fill positions on our Executive Committee where terms were up for renewal. Kevin Edgar and Gordon Selling were both elected to continue in their roles as Councilor and Alternate Councilor, respectively. World Nieh, formerly the division's Awards Chair, began his term and the new Treasurer at the beginning of this year. Maria Soledad Peresin was elected to become the new Member at Large on the Executive Committee. Furthermore, due to growth in the division's membership, the ACS awarded our division a new Councilor position. Scott Rennecker was elected to fill this new position, and Noureddine Abidi was elected as the new Alternate Councilor.

Maren Roman is currently transitioning from her role as Program Chair Designate to Program Chair, and Wim Thielemans has been nominated to become the new Program Chair Designate. Monica Ek was nominated to become the division's new Awards Chair.

Awards

The American Chemical Society (ACS) Cellulose and Renewable Materials Division (CELL Division) has selected Dr. Lucian Lucia and Dr. Paul Gatenholm as the Division's 2016 Division Fellows. Established in 1983, the Cellulose and Renewable Materials Division Fellow Award recognizes Division members' dedication, leadership, and enthusiastic service to the CELL Division. Honoring their contributions to the CELL Division, Dr. Lucia and Dr. Gatenholm will receive individual plaques at the Division Awards Banquet on March 15, 2016 during the 251st American Chemical Society National Meeting and Exposition in San Diego, California.



Lucian Lucia

Dr. Lucia is currently one of the CELL Division Councilors and has served as Division Chair and Secretary in the past. In 2015, he successfully led the effort to raise US\$35,000 to establish the Division's KINGFA Young Investigator Award. He has organized or co-organized 14 CELL Division Symposia in ACS meetings including co-organizer for two Anselme Payen Award Symposia and two ACS Awards for Affordable Green Chemistry Symposia. Dr. Lucia has received three ACS Innovative Grant Proposal (IGP) grants. The first was used to fund the Conversion of Biomass to Biomaterials and Bioenergy symposium at the 2011 Southeastern Regional Meeting of the ACS, in Richmond, VA. A second grant was obtained in partnership with the Girl Scouts of America to educate children in the chemistry of cellulose and food safety. The third IGP grant was obtained in collaboration

with North Carolina State University to fund an outreach project targeting middle school children to teach them how wood and plants can provide the building blocks for basic chemicals.

Dr. Lucian Lucia is an Associate Professor at North Carolina State University where he has equal responsibility for teaching and research. He has been recognized with faculty appointments at universities in China, South Africa and Brazil. His research is based around the chemistries and technologies for converting biomass to biochemical and biomaterials with an aim for implementation. Dr. Lucia has over 180 publications to his credit and he is an Editor of BioResources.

Dr. Paul Gateholm has held numerous positions within the CELL Division including Division Chair, Program Chair and Division Awards Chair. His achievements to the Division include active participation in Division Task Forces that has broadened the scope and changed the name of the CELL Division, developed vigorous symposium programs for CELL Division resulting in all time high records in papers submitted, worked actively to bring younger scientists to the Division and the establishment of Graduate Student Award. Dr. Gateholm has also made significant contributions to grow the Division and improved the Division's position in ACS. Dr. Gateholm has organized several symposia including the Symposium on Interactions between Lignocellulosic Materials, the First, Second and Third International Symposium on Xylans, Mannans and Other Hemicelluloses, the First International Symposium on Bacterial Cellulose and poster sessions in the 2014 Nanocellulose Symposium.



Paul Gateholm

Dr. Gateholm is currently Professor of Biopolymer Technology at Chalmers University of Technology. He is also the Wallenberg Wood Science Center Graduate School Coordinator, 3D Bioprinting Center Director and Deputy Head of Forest Division, Swedish Royal Academy of Engineering. He holds Adjunct Professor positions at Virginia Tech and Wake Forest School of Biomedical Engineering in the U.S.A. Dr. Gateholm is a member of the editorial boards of Cellulose, Carbohydrate Polymers, Bioresources, and the Journal of Renewable Materials. He edited the ACS Symposium Series book Hemicelluloses: Science and Technology, and he has 330 publications to his credit.

2016 ACS Spring Meeting – CELL Program and Events

For the full program and presentation abstracts for symposia being organized and sponsored by the Division of Cellulose and Renewable Materials at the ACS National Meeting in San Diego, CA, please visit the division's website at:

<http://cell.sites.acs.org/2016acsspringmeeting.htm>.

Highlighted Symposia

New Horizons in Sustainable Materials – Sunday and Monday sessions. This symposium will highlight the contributions to high performance sustainable materials by outstanding early career investigators in the field. This symposium is also serving as a kick-off for the CELL Division's new KINGFA Young Investigator Award, sponsored by KINGFA Industries. The symposium is co-organized by the European Polysaccharide Network of Excellence, and it is co-sponsored by the POLY Division and the ACS Council Committee on Divisional Activities.

Structure of Native Celluloses & Variety of Nano-celluloses That Can Be Formed from Them: Anselme Payen Award Symposium in honor of Akira Isogai – Sunday, Monday, and Tuesday sessions. Always a highlight of the division's program, this symposium will honor the pioneering work in nanocellulose research from Professor Isogai.

CELL Division General Poster Session – Sunday evening, 6:00 – 8:00 pm. Over 60 posters are expected covering a wide range of topics related to cellulose and renewable materials. Come view the posters, and ask plenty of questions. The posters will be presented in Halls D/E in the San Diego Convention Center, right next door to the Marriot Marquis hotel.

CELL Division Business Meeting – Wednesday, March 16, 5:30 pm

The division's executive committee would like to extend an invitation and encourage all CELL Division members to attend our open business meeting on Wednesday evening at 5:30 in the Leucadia Room of the Marriott Marquis. This is your chance to learn about ongoing activities within the division, share your viewpoints, and influence the future of the division.

CELL Division Awards Banquet – Tuesday, March 15, 6:30 pm

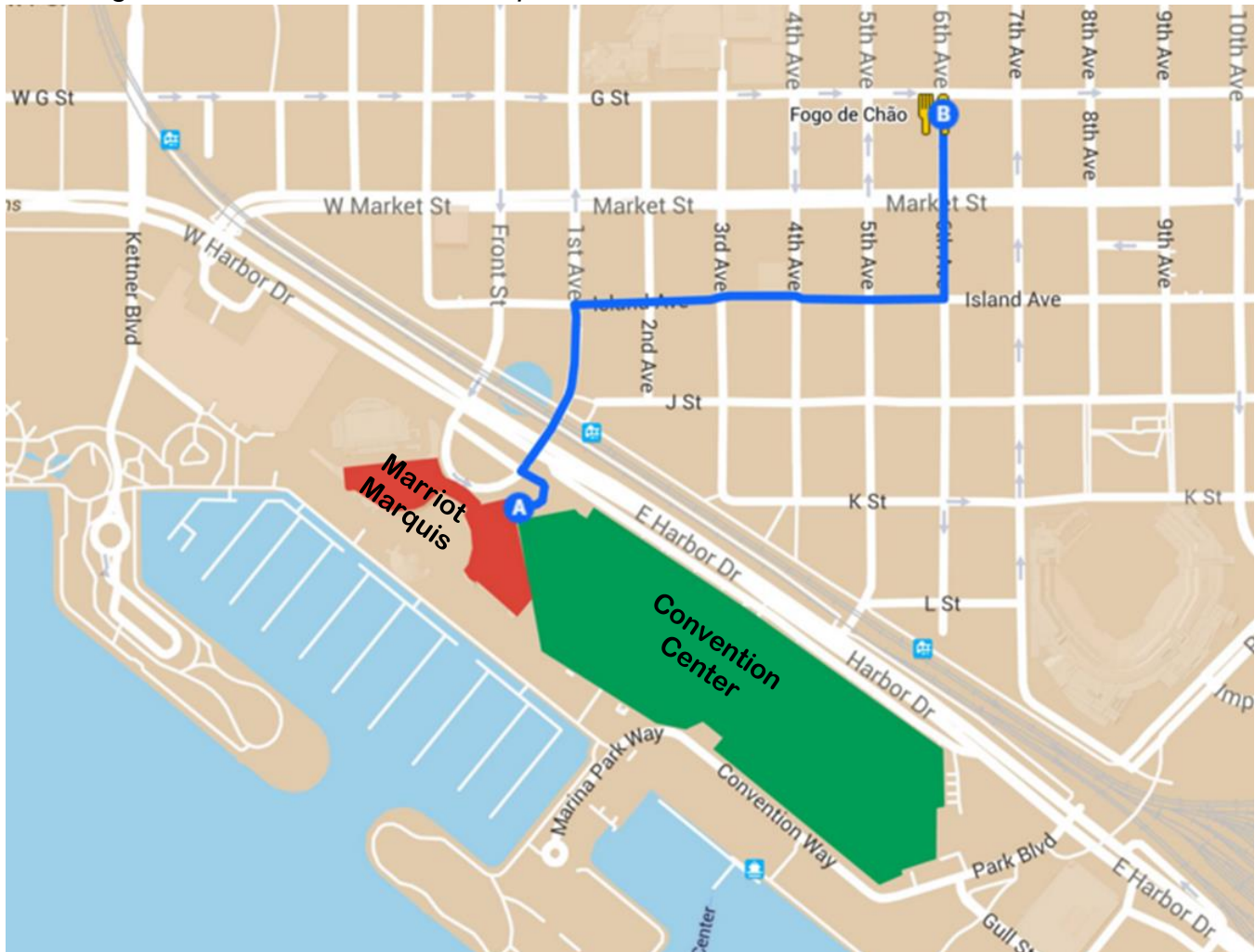
The Division of Cellulose and Renewable Materials Awards Banquet will be held at Fogo de Chão (<http://fogodechao.com>), located at 668 6th Avenue in San Diego. A reception will begin at 6:30, followed by dinner and an awards ceremony. The highlight of the evening will be the presentation of the 2015 Anselme Payen Award to Dr. Akira Isogai. Please join us on this joyful occasion as we celebrate with Dr. Isogai and our fellow CELL division members.

A banquet ticket is required to attend this event. To purchase a ticket, please go to the Social Events section of the National Meeting & Exposition registration package. Scroll down to Tuesday, March 15, and check the [CELL Division Awards 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).

Fogo de Chão is approximately a ½ mile, 10 to 15 minute walk from the Marriot Marquis hotel where the CELL Division technical sessions will be held. To get there from the hotel:

- Exit the hotel onto 1st Avenue and cross Harbor Drive and the light rail tracks
- Continue on 1st Avenue for one more block, then turn right onto Island Avenue
- Walk along Island Avenue for about 0.3 mile, then turn left onto 6th Avenue
- Walk along 6th Avenue for two blocks. Fogo de Chão will be on your left.

San Diego Convention Center area map





251st ACS National Meeting & Exposition

Cellulose & Renewable Materials Division Program Overview

****All events are at the Marriott Marquis San Diego Marina unless otherwise noted****

Room	Marina Salon G	La Costa	Cardiff	Solana	Temecula 1&2	Point Loma	Marina Salon F
Sunday March 13	Morning & Afternoon	Anselme Payen Award Symposium in honor of Akira Isogai	Lignin refining, functionalization & utilization	Biomass & polymer extrusion, composite & reaction technologies...	Functional lignocellulosics & nanotechnology	New horizons in sustainable materials	
	Evening	6:00 to 8:00 - Poster session in <u>Halls B/C of the San Diego Convention Center</u>					
Monday March 14	Morning & Afternoon	Anselme Payen Award Symposium in honor of Akira Isogai	Lignin refining, functionalization & utilization	Valorization of renewable resources & residuals into new materials...	Functional lignocellulosics & nanotechnology	New horizons in sustainable materials	
	Evening	8:00 to 10:00 - Sci-Mix in <u>Halls D/E of the San Diego Convention Center</u>					
Room	Marina Salon G	La Costa	Cardiff	Miramar Room	Leucadia	Presidio 1	Mission Hills
Tuesday March 15	Morning	Anselme Payen Award Symposium in honor of Akira Isogai	Lignin refining, functionalization...	Valorization of renewable...	Functional lignocellulosics...	Cellulose nanocomposites...	
	Afternoon						
	Evening	6:30 - Cellulose and Renewable Materials Division Awards Banquet at <u>Fogo de Chão</u> (ticket required)					
Wednesday March 16	Morning & Afternoon	Biomedical & drug delivery applications of polysaccharide-based materials	Cellulose nanocrystal fundamentals	Valorization of renewable resources & residuals into new materials...	Functional lignocellulosics & nanotechnology	Cellulose nanocomposites processing development...	
	Evening	5:30 - Cellulose and Renewable Materials Division Open Business Meeting <u>in the Leucadia room</u> . All division members are welcome and encouraged to attend!					
Thursday March 17	Morning	Biomedical & drug delivery applications...	Cellulose nanocrystal fundamentals	Valorization of renewable resources & residuals into new materials...		Cellulose nanocomposites processing development...	
	Afternoon						

Upcoming Conferences

TAPPI International Conference on Nanotechnology for Renewable Materials, June 13 – 16, 2016

Grenoble, France

Website: <http://conference.tappinano.org/>

Green Chemistry and Engineering Conference, June 14 – 16, 2016

Portland, OR

Website: http://www.gcande.org/?cid=em_gci_acs2yr_1_5_16

Forest Products Society International Convention, June 27 – 29, 2016

Portland, OR

Website: <http://www.forestprod.org/ic/>

International Carbohydrate Symposium, July 17 – 21, 2016

New Orleans, LA

Website: <http://www.ics-2016.org>

See the special note below from the conference chair, Al French:

“The next ICS will be in New Orleans, July 17-21, 2016, just four months away. These meetings have been called “the most important event in carbohydrate chemistry and biochemistry”, and New Orleans is one of the most exciting places to have a meeting. CARB and CELL will be represented at the meeting using this event as their Fall program. The meeting will cover Synthesis, Glycomedicine, Glycopharmacology, Structure, Polysaccharides, Utilization, Molecular Recognition, Biofuels, Glycomaterials, Chemical Glycobiology, Glycoinformatics, The Glycome, and Carbohydrate Enzymology.



Al French

The meeting opens Sunday afternoon with the R. L. Whistler and Young Researcher Award Lectures, and the first of eight Plenary speakers, followed by a Reception. Besides the outstanding international Plenary and over 30 Keynote speakers there will be some 200 contributed oral presentations, two posters sessions, and a vendor exhibition. Contributions from academia, government, and industry are welcome. The program is open for submissions using the ACS's Meeting Abstracts Programming System (MAPS); abstract submissions are due by May 2. The final program summary will be published in Chemical and Engineering News (C&EN) in the summer with the on-line program available June 13.

Keeping with tradition, ICS-2016 will include several cultural and entertainment events designed to give you a feel for this exciting city. There will be a Cultural Evening on Tuesday with an educational concert at the St. Louis Cathedral featuring the excellent National Historic Park Service's Jazz Band and the dynamic Shades of Praise Gospel Choir who have performed at the New Orleans famous Jazzfest.

The technical programing will break at lunchtime on Wednesday so that attendees can participate in one or more different organized swamp, plantation, or ghost tours. Cruise on an authentic steamboat, or see nighttime views of New Orleans during the New Orleans at Night tour that includes several bars. The organizers have arranged for two special, space-limited tours at: the Turtle Cove Wetlands Research Center in the Manchac Swamp or the Domino Sugar Refinery where more than 3 million kg of cane sugar are refined daily. These two special tours have firm limits of 24 and 50 persons respectively so early booking is recommended. City tours will also be offered on the Sunday prior to the meeting as well as Wednesday afternoon. More information on tours can be found on our website. There are so many things to do that you may want to take advantage of our special deal on the hotel rates and extend your stay, either before or afterwards.

The closing event will be a banquet at Mardi Gras World Thursday evening, including a walk through the huge warehouse where floats are constructed, a video history, and preliminary reception overlooking the Mississippi River. All technical sessions are planned for the New Orleans Marriott; get your reservation early for a room with the best view over the French Quarter and other nearby attractions. Limited student registrations at reduced price are available (printed registration required)."

Recent Job Postings

Three tenure-track positions at North Carolina State University

The College of Natural Resources at NC State University invites applications from innovative, interdisciplinary scholars for three full-time tenure-track positions at the rank of Assistant Professor. The appointment is anticipated to begin on August 16, 2016. Review of applications will begin February 22, 2016, but will continue to be received until successful candidates are identified. Each candidate will be expected to contribute to one or more of the CNR's strategic priorities: 1) Sustainable Solutions; 2) Land and Water; and 3) Built and Natural Environment. One position will be appointed in each of the College's departments: the Department of Forest Biomaterials, the Department of Forestry and Environmental Resources, and the Department of Parks, Recreation and Tourism Management. [Download this pdf file for more information.](#)

Ph.D. graduate student position at the University of Göttingen

A Ph.D. position for 3 years (with the option of extension) is open now. We are looking for enthusiastic, motivated and skilled students holding an MSc in a relevant area of Chemistry, Wood Chemistry or Materials Science. The candidate preferably has some hand-on experiences in the field of biopolymers, polysaccharides, polymer chemistry, organic chemistry or material science. For more information, visit:

www.uni-goettingen.de/de/305402.html?cid=11294 (page in German).