

# AACCI Carbohydrate Division Newsletter

Fall 2014

Editor: Dilek Uzunalioglu



## Welcome to 2014 AACCI Annual Meeting Providence, Rhode Island



### Contents

AACCI Meeting	1
Carbohydrate Dinner	2
Koushik Seetharaman	3
Financial Report	5
Megazyme Winners	6
Memories from 2013	7

The 2014 AACCI International Annual Meeting this year will take us to Providence, the capital city in Rhode Island. Providence, founded in 1936, is one of the oldest cities in the United States. The city of Providence is geographically very compact, and neatly cross-stitches the fabric of New England history with a vibrant dining palate and an edgy arts, music and cultural scene.

The 2014 technical program focuses on the cross-scientific, multi-disciplinary initiatives, packed with Symposia, Scientific Cafés, Hot Topics, Technical sessions and Poster presentations. Also, do not miss the new sessions added to this year program; Conversation Matter and Special Sessions. We are sure you are going to have another wonderful AACCI Annual Meeting. See you all at the

- *Grand Opening Ceremony, 3:30 pm on Sunday October 5*
- *Carbohydrate Division Meeting, 6 pm on Monday October 6*
- *Carbohydrate Division Dinner, 6 pm Tuesday October 7*



## Carbohydrate Division Dinner



The Dorrance (<http://www.thedorrance.com>) is the venue for our annual carbohydrate division dinner. It is located at 60 Dorrance St, Providence, RI 02903, Phone: (401) 521-6000

Please join us at 6 pm on Tuesday, October 7th for the drinks, New England themed dinner and enjoy the company of your friends and colleagues.



The Dorrance is in walkable distance from the convention center(4 blocks).

Located in the heart of downtown Providence, The Dorrance restaurant maintains the timeless elegance of yesteryear in a gleaming, contemporary way. High ornate ceilings, a long, luxurious bar, and a well-appointed dining room are the backdrop for hand-crafted cocktails and globally-inspired, New England cuisine that commands respect.

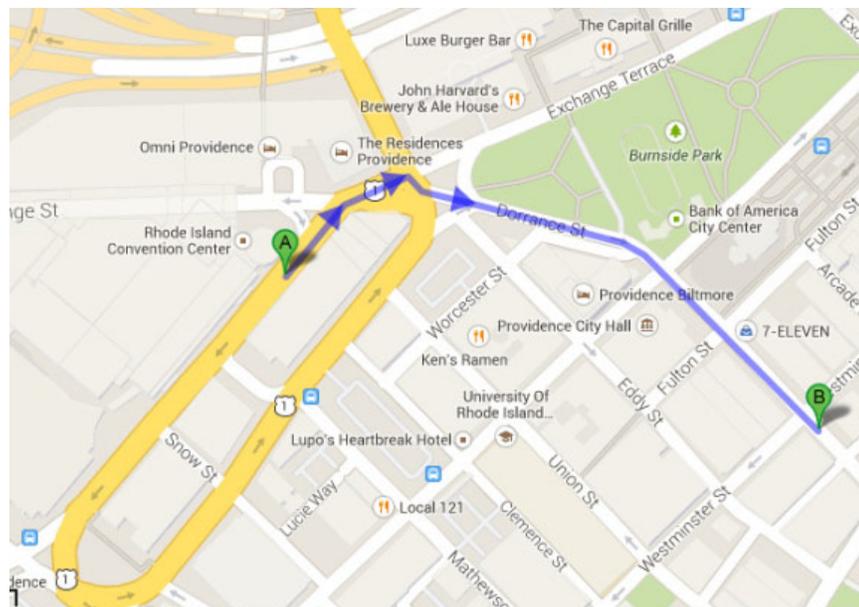


For those who are walking to the venue, please follow the map as shown below for directions.

We are looking forward to a tempting dinner with the carbohydrate division members, friends and colleagues.

**6 pm on Tuesday,  
October 7th**

**The Dorrance  
60 Dorrance St. Providence,  
RI 02903,  
Phone: (401) 521-6000**





## In Memoriam

### Koushik Seetharaman, Ph.D.

1966-2014



On June 3, 2014, the cereal science community lost one of its prominent researchers. Koushik Seetharaman passed away at 48 years of age. He suffered from cardiac arrest.

Koushik was born in India on March 10, 1966. His father was professor of Agricultural Economy and his mother was a teacher in English. They provided him with a thorough basic education. In 1987, Koushik obtained a B.S. degree in dairy science and technology at Gujarat Agricultural University. To the family also belonged his two sisters.

In 1989, he entered the U.S. to begin study at Cornell University. The following year he obtained his M.S. degree in Food Chemistry. Koushik was then offered a position as Research Assistant at Texas A&M University, where he became involved in research on wheat fibers and antifungal proteins in sorghum. He obtained his Ph.D. in Food Science in 1996.

After working as a consultant for the industry for a few years, Koushik pursued a career in academia. In 1998, he obtained a position as a Post Doc Research Associate at Iowa State University. At this time, his research interest focussed on starch and its properties. After two years Koushik moved to Penn State University, in mid-1999, to take up a position as Assistant Professor at the Department of Food Science. At PSU Koushik became interested in the structure of the starch granule, for which he used iodine vapour as a tool to study the structural dynamics of the granule.



## Koushik Seetharaman, Ph.D.

In mid-2007, Koushik moved to the University of Guelph in Ontario, Canada as Associate Professor and Cereals Chair at the Food Science department. This became his most active and intense time as a teacher and researcher. Within a couple of years Koushik's research group maintained 40-45 people, including all levels of students and visiting scholars, post docs and research fellows from more than 15 countries and all continents. Besides starch, his research now also became focused on wheat proteins, polyphenols and applications. A lot of his research was, however, devoted to basic science, such as the initiation and development of the starch granules during cereal endosperm growth and the structure of starch in mutant plant species.

In 2013, Koushik was appointed the new position as General Mills Cereals Chair and Associate Professor at the University of Minnesota. He moved to St Paul in July 2013 and began to modernize the cereal laboratory. This extended renovation was just ready when he unexpectedly left his life.

Koushik was a person full of energy and with an incomparable ability to combine basic research with industrial applications. During his career, Koushik published around 100 scientific papers in peer-reviewed international journals and 4 book chapters. He advised more than 35 graduate students, of which 10 received doctoral degrees.

Anyone who met Koushik could not remain unaffected by his personal charisma and his enthusiasm, by which he took on new challenges in science. His broad insight in food science and experiences as a consultant for the industry made him the perfect inspiring teacher for both undergraduate and graduate students. Koushik was also very active within the research community. He served as the Carbohydrate Division Chair at the Institute of Food Technology (IFT). He was the scientific program chair at the annual meeting of the American Association of Cereal Chemists International (AACCI) last year and vice-chair in 2012. In addition, he served in several committees of AACCI, was the Carbohydrate Division Chair in 2010-2012, and was one of the active founders of the Student Division in the 1990-ies. Koushik was also member of the Executive Committee of the Starch Round Table and was active in organizing and selecting the locations of its meetings. In addition, Koushik was involved in several international collaborative projects, e.g., with India, Ghana, and Namibia.

In his private life, Koushik was just as active as in his profession – in fact, there was no distinction between the two. Koushik married Debra Freedman in 2002. Their son was born shortly before they moved to Guelph in Canada. The doors to their house were always open for anyone who came around, neighbours as well as students and other friends. In fact, their potluck parties became famous and unforgettable due to the international circle of acquaintances.

***Koushik Seetharaman will be greatly missed.***

***Eric Bertoft***  
***A close friend and colleague***





## Financial Report

### Certificate of Deposit Account:

Opening 60 Mo Certificate Balance		\$14,436.51
Dividend Paid		\$165.12
	<b>60 Mo Certificate Balance</b>	<b>\$14,601.63</b>
	<b>Savings Balance</b>	<b>\$5.00</b>
Opening 36 Mo Certificate		\$4,131.22
Dividend Paid		\$25.64
	<b>36 Mo Certificate Balance</b>	<b>\$4,156.86</b>
	<b>WINGS FINANCIAL BALANCE</b>	<b>\$18,763.49</b>

### Carbohydrate Division Statement:

	<b>Balance forwarded from 3/31/13</b>	<b>\$20,334.05</b>
Income		
Membership Dues	2,715.00	
Other Deposits	11,798.12	
	<b>Total Income</b>	<b>\$14,513.12</b>
Expenses		
Dues Processing Fees	181.00	
Megazyme Awards	1,000.00	
Student Travel Award	1,500.00	
Annual Meeting Expenses	5,514.59	
	<b>Total Expenses</b>	<b>(\$8,195.59)</b>
	<b>BALANCE FOR 2014</b>	<b>\$26,651.58</b>
	<b>CERTIFICATE OF DEPOSIT</b>	<b>\$18,763.49</b>



## Megazyme Winners

### First Place Winner:

Markus Schirmer, Technische Universität München

Title: Online monitoring of starch gelatinization with limited water content using CLSM

### Second Place Winner:

Junyi Yang, University of Nebraska

Title: Production of feruloylated arabinoxylan hydrolysates that promote sustained short chain fatty acid production during in vitro fecal fermentation

### Third Place Winner:

Bin Zhang, Centre for Nutrition and Food Sciences, The University of Queensland

Title: Why are starch granule ghosts not hydrolysed completely? Molecular and microscopic insights into amylase digestion

## OUR THANKS to the Division Officers: 2013 – 2014

Chair: Yong-Cheng Shi, Kansas State University

Chair-Elect: Baljit S Ghotra, Cargill

Division Program Chair: Senay Simsek, North Dakota State University

Secretary-Treasurer: Dilek Uzunalioglu, Ingredion Inc.



## Memories From 2013

### Carbohydrate Division Dinner, Albuquerque, NM

