



DEPARTMENT OF FOOD SCIENCE SUMMER 2012 NEWSLETTER

Rutgers, The State University of New Jersey; School of Environmental and Biological Sciences
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RUTGERS
School of Environmental
and Biological Sciences

CHAIR'S MESSAGE

Dear Friends,

It is my pleasure and honor to report to you about several exciting things that happened during the last year at the Department of Food Science. We graduated 18 B.S., 23 M.S. and 10 Ph.D.s. Our Jennifer Komaiko graduated at the top of the 2012 SEBS graduating class with a GPA of 4.0. Congratulations to our graduates and our best wishes to all. Our undergraduate enrollment is now at 116 (highest ever) and our graduate program continues to be very competitive and highly sought after. Enrollment in the MBS program is close to 20. The 2+2 program with South China University of Technology at the UG level has started with six students joining in fall 2011 and more expected in fall 2012. The "2nd ReConnect with Rutgers Food Science" alumni event on April 27, 2012 had an attendance of 170.

Our faculty continues to be very productive in terms of research grants and publications. Dr. Loredana Quadro was promoted to Associate Professor with tenure. Dr. George Carman was appointed as a Board of Governors' Professor of Food Science at Rutgers University. Dr. Richard Ludescher was appointed as the Dean of Academic and Student Programs of SEBS.

Ms. Irene Weston joined as the Departmental Administrator after Paulette Arico retired. Miriam Gonzalez retired and in her position we now have Ms. Laura Amador.

We are continuing with our fund raising campaign to modernize our undergraduate laboratories. The Department's advisory council continues to provide valuable input.

I invite you to visit our website <http://foodsci.rutgers.edu> for more details.

With best wishes,

Mukund V. Karwe



DR. MICHAEL ROGERS

Dr. Michael Rogers joined the Rutgers' Food Science Department last summer (2011) from the University of Saskatchewan in Canada. He received his Ph.D. from the University of Guelph in 2008. His research focuses on understanding the structure-function relationship of small molecule self-assembly. Dr. Rogers studies how and why molecules assemble and how we can modify their structures from the nanoscale to supramolecular network structure. His long-term objectives focus on understanding the relationship between molecular and supramolecular structures, a fundamental understanding of complex biological materials, and to be able to mimic the structures they form, as well as an understanding of how to manipulate the nano-, macro-, and supramolecular levels of structure. We wish him success as a new faculty member.



ACCOLADE HIGHLIGHTS

Dr. George Carman, Professor II, was recently appointed Board of Governors' Professor of Food Science. This award recognizes faculty members at Rutgers University whose accomplishments are consistently and unusually outstanding, at a level exceeding even the extremely high standards expected of faculty members who have earned the designation of Professor II. The award requires input from the international community as well as a peer review here at Rutgers. Dr. Carman's scientific contributions were also recognized by the American Society for Biochemistry and Molecular Biology by awarding him the 2012 Avanti Award in Lipids. Congratulations to Dr. Carman.



CONGRATULATIONS TO DR. LOREDANA QUADRO

Dr. Loredana Quadro was recently promoted to Associate Professor with tenure. Congratulations to Dr. Quadro and best wishes for future success.



CONGRATULATIONS TO OUR 2012 ENDEL KARMAS TEACHING EXCELLENCE AWARD WINNERS

Dr. Karen Schach
Faculty



Dr. Yasmine Shafaie
Teaching Assistant

DR. QINGRONG HUANG IN CHINA, INDIA AND TURKEY

Dr. Huang was invited and visited Wuhan Polytechnic University in October 2011. He presented a talk entitled “Plant Proteins Processing: Structure, Function, and New Materials” during their Sixty Years Anniversary Lecture Series. While in China Dr. Huang received the Chutian Distinguished Scholar award funded by Hubei Province, China and the Dingying Distinguished Scholar award from South China Agricultural University, Guangzhou, China.



In November of 2011 Dr. Huang visited the Dairy Technology Society of India. He presented a talk entitled “Assembly of Nutraceutical Nanocapsules Using Bioactive Peptides From Milk Proteins” at the 2011 International Conference on Functional Dairy Foods in Karnal, Haryana, India. He also provided a three-day training workshop on Agricultural Nanotechnology at the Central Institute for Research on Cotton Technology in Mumbai, India.

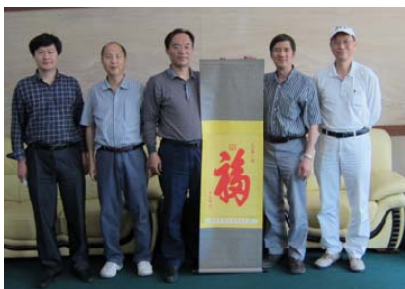


In May 2012 Dr. Huang visited Turkey and presented two talks entitled “Encapsulation Technologies for Preserving and Controlled-release of Phytochemicals and Enzymes” and “Rational Design of High Loading and Bioavailability Nutraceutical Nanocapsules” at the 2012 International Conference on Advanced Nonthermal Processing in Food Technology at the Pine Bay Resort in Kusadasi, Turkey.



DR. KIT YAM IN CHINA AND SOUTH KOREA

During March and April 2012 Dr. Yam spent a month as a visiting professor in the Biomedical Engineering Department of the Jinan University in Guangzhou, China. While in China he gave lectures at the South China University of Technology. In late May he was invited to give a main lecture at the 5th Annual Shelf Life International Meeting in South Korea. His presentation topics included controlled release packaging, intelligent packaging and package sustainability.



DR. DONALD SCHAFFNER IN THAILAND, AND BRITISH COLUMBIA AND ALBERTA, CANADA

Dr. Schaffner gave a presentation on risk modeling and served on the Ph.D. committee of Pornpen Morakotjinda at the Kasetsart University in Thailand. He gave two talks on microbial food safety and risk assessment at the NIH Fogarty International Training and Research in Environmental and Occupational Health Center Workshop series on community health projects and scholarship. In British Columbia in January 2012 he attended the BC Food Protection Association annual meeting where he gave a talk entitled “Understanding and Managing Microbial Risks.” In Alberta in October 2011 he presented a Microbial Challenge Study Workshop.



DR. MICHAEL CHIKINDAS IN SLOVAKIA

Dr. Chikindas attended the International Scientific Conference on Bacteriocins and Antimicrobial Peptides (BAMP 2012) that took place in February in Kosice, Slovakia. The program focused on science and applications of antimicrobial substances of a proteinaceous nature. Young researchers, established investigators and industry representatives reported on isolation, characterization, mode of action, food, clinical and veterinary applications of novel and already characterized bacteriocins produced by various microorganisms. Dr. Chikindas served on the Conference's Scientific Committee and presented a plenary lecture on subtilosin, the bacteriocin investigated by his group. His participation in the event was sponsored by the Conference.



DR. RICHARD LUDESCHER IN CHINA

Dr. Ludescher made his first visit to China in spring 2012. He visited Nankai University in Tianjin, presented a paper at the 9th International Conference on Food Science and Technology in Hangzhou, and visited the School of Food Science at Jiangnan University in Wuxi, generally considered the best food science program in China. While there he was able to visit the Great Wall at Badaling (the North Pass) just outside of Beijing. In the photo he is standing in front of a quote by Mao Zedong that states: "He who has not climbed the Great Wall is not a true man." Dr. Ludescher was especially impressed by the hospitality of his hosts, the wonderful food and the high speed train system.



DR. MUKUND V. KARWE IN SOUTH KOREA

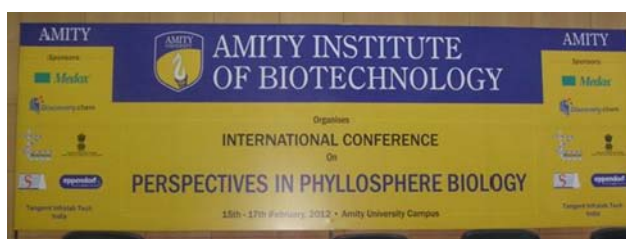


Dr. Karwe visited South Korea in May 2012. He was invited by Kookmin University in Seoul to explore the possibility of establishing a 2+2 program at the undergraduate level, similar to the one in SCUT, China. While in Korea he gave a plenary lecture entitled "Opportunities and Challenges in High Pressure Processing of Foods" at the annual conference of the Korean Society of Mechanical Engineers at the Yongpyong resort.



DR. KARL MATTHEWS IN INDIA

Dr. Matthews visited the Amity Institute of Biotechnology in Noida, India to attend the International Conference on "Perspectives in Phyllosphere Biology" in February of 2012. He presented the keynote address entitled "Human Pathogen Ability to Colonize Plants: Induction of Plant Responses at the Molecular Level." He was presented with a Lifetime Achievement award in Phyllosphere Biology by Dr. Ashok Chauhan, President of the Amity Institute of Biotechnology. While in India Dr. Matthews enjoyed events, including a performance of dances in traditional dress associated with various regions of India, as well as a visit to the Taj Mahal, in the company of Amity students.



ALUMNI NEWS

Dr. William Franke was presented with a lifetime achievement award at the 2nd ReConnect with Food Science on April 27, 2012. Bill was head of R&D at Unilever/TJ Lipton for many years and was Associate Director of the CAFT at Rutgers. His many contributions to industry and academia were highlighted during the presentation.



GRADUATE STUDENT NEWS

At IFT 2011 our graduate students received an honorary mention in the Chapter of the Year and third place in the Product Development competitions. They hosted several industrial speakers and entered numerous product development competitions. They worked with high school students, sold food at Rutgers Day, had informal tea sessions to socialize with faculty and staff and involved themselves in raising money for charitable organizations.



UNDERGRADUATE STUDENT NEWS

Our undergraduate Food Science Club members volunteered at the Community Food Bank of NJ and helped organize and run an educational program for girl scout troops. Their delicious ice cream sold well on Rutgers Day and their student/faculty mixer was a great success. They are looking forward to IFT in Las Vegas and to a new academic year. They have plans to host a panel of industry food scientists and to visit Valley Sheppard Creamery.



CONGRATULATIONS AND BEST WISHES TO OUR 2012 GRADUATES

Recipients of the Doctor of Philosophy Degree

Aishwarya Balasubramanian	Zafer Gezgin
Youn-Kyung Kim	Shadi Riazi
Yasmine Shafaie	Stephen Toth
Kiran Vyakaranam	Yu-Wen Wang
Hailong Yu	



Recipients of the Master of Science Degree

Edith Castro De Cruz	Saikiran Chaluvadi
Christine Crouse	Dorota Cwynar
Yuan Dong	Tanya D'Souza
Shreya Gandhi	Gretchun Kim
Lina Kuang	Niti Lathia
Di Li	Chang-Hsin Liu
Wan-Yun Liu	Laura Lukasewycz
Marcee Martinez	Prateek Mathur
Jennifer Merle	Spurti Ravi
Luni Shen	Aditi Shrikhande
Elah Steltzer	Siddhi Thakkar
Mansi Trivedi	Ping Wang
Yuxin Wang	Li Zhang



Recipients of the Bachelor of Science Degree

Regan G. Albertson	Tammie L. Chiou
Hanna L. Clune	Michael J. Driver
Yoonsun Hwang	Elyse H. Kim
Michael Kim	Jennifer S. Komaiko
Troy E. Krutal	Jacqueline LaFleur
Laticia T. Nascimento	Ewelina Pura
Anam Rehman	Elizabeth Schuck
Sheema F. Syed	Alexa M. Vaughan
Jovanni Velez	Daniel D. Yi



CONGRATULATIONS TO DR. MUKUND V. KARWE

Dr. Karwe was recently elected a Fellow of IFT



2nd RECONNECT WITH FOOD SCIENCE

Our 2nd ReConnect with Food Science brought many alum, faculty, students and staff together for an evening of good food and good conversation. We were honored with speeches by Dr. Robert M. Goodman, Cook Campus Dean, and Dr. Richard McCormick, President of the University. We thank our generous sponsors: ConAgra Foods, Dr Pepper Snapple Group, DSM, Frito Lay, Heinz, IFF, MARS, Pepsico and Unilever. Additional in-kind donations were provided by Colgate, J&J, and Peppridge Farm.

