Message from the Chair
Norman W. Loney

Welcome to the Otto H. York Department of Chemical, Biological and Pharmaceutical Engineering at NJIT. We are firmly committed to providing all students, both undergraduate and graduate, with an outstanding education that prepares them for successful careers in both industry and academia upon graduation. We have a long tradition of educating students in a productive and friendly environment.

Our undergraduates are exposed to industry via co-operative work programs, on-campus talks by company representatives, and work on projects about real-world problems. The students are encouraged to participate in current laboratory and computational research with our faculty. Their findings are presented at local, national, international meetings or are published in technical peer-reviewed journals. A number of our undergraduates have won research awards in nation-wide competitions.

Our masters and doctoral graduate students take courses covering state-of-the-art topics, and work on cutting-edge research topics. They are advised by faculty who are nationally and internationally recognized for their contributions in the research arena. Several of our professors and instructors have won NJIT and national teaching awards.

On this website, you will find information about all aspects of the department, including our undergraduate and graduate programs, our faculty and their research interests, the award winning student chapter of the American Institute of Chemical Engineers (AIChE) and people to contact if you need further information. Please do not hesitate to contact us for additional help.

We look forward to seeing you in the near future at NJIT!
**NEW FACULTY MEMBERS**

Sagnik Basuray received his PhD from Notre Dame in Chemical Engineering. He worked for over a year with a pharma company where he worked on a prototype instrument for the next generation DNA sequencing platform based on Ion-Sensitive Field-Effect Transistor. He returned to academia as a postdoctoral researcher at University of Missouri, Columbia to gain expertise in optics.

**Sagnik Basuray, PhD**  
*Assistant Professor*

Roman S. Voronov, Assistant Professor at the New Jersey Institute of Technology. Prior to his appointment, he was a AHA Postdoctoral Fellow in the Department of Chemical & Biomolecular Engineering at the University of Pennsylvania under the guidance of Prof. Scott Diamond.

His research interests encompass high performance image-based modeling of complex flows with applications ranging from bone tissue engineering, to blood systems biology, to drug delivery.

**Roman Voronov, PhD**  
*Assistant Professor*

Xiaoyang Xu, recently appointed Assistant Professor.

Prior to joining NJIT, his previous position was a joint postdoctoral fellow in the laboratories of Professors Robert Langer at MIT and Omid Farokhzad at Harvard Medical School.

His research mainly focuses on the development of novel biomaterials and nanomedicine approaches for a broad range of biomedical applications including diagnostics, imaging and therapy.

**Xiaoyang Xu, PhD**  
*Assistant Professor*

**FACULTY ACCOMPLISHMENTS/AWARDS**

Ecevit Bilgili, was recently promoted to Associate Professor with Tenure.

**Ecevit Bilgili, PhD**  
*Associate Professor*

Norman Loney received the NCE Excellence in Advising Award at the 2014 NCE Salute to Engineering Excellence.

**Norman Loney, PhD, FAICHe**  
*Professor and Chair*

Laurent Simon received an award for contributions to Engineering Education at the American Society for Engineering Education (ASEE) Annual Conference.

**Laurent Simon, PhD**  
*Associate Professor*

Xianqin Wang recently published a special journal paper titled "N-g Polynitrogen Stabilized on Multi-Wall Carbon Nanotubes for Oxygen-Reduction Reactions at Ambient Conditions" which was accepted in Angewandte Communications Journal Publication.

**Xianqin Wang, PhD**  
*Associate Professor*
**OUR STUDENTS**

**Yasmine Aly,** 2014 PhD, received two of the university’s highest honors this year including the 2014 Presidential Leadership Award for a graduate student and the Outstanding Graduate Award from the Newark College of Engineering (NCE). Ms. Aly will work as a post-doctoral fellow for the Defense Threat Reduction Agency in August 2014.

**Danni Chen,** 2014 graduate, is currently employed at DuPont, one of the world’s top chemical companies. She is apart of Dupont’s Field Engineering Rotational Program, a coveted six-year rotational program that will give Ms. Chen the opportunity to travel within the company and around the world.

**Elaine Gomez,** 2014 graduate, winner of the National Science Foundation Graduate Research Fellowship will be enrolling in Columbia University PhD program for Chemical Engineering in 2014 Fall. Ms. Gomez also received the Madame Mau Outstanding Female Engineering Student Award at the NCE Salute to Engineering Excellence.

**Faidy Rusinque,** 2014 graduate and McNair Scholar will work as a process engineer for ExxonMobil’s Downstream Research and Engineering division. We are proud to announce that her brother will be joining our department in Fall 2014.

**Dr. Rayon Williams,** PhD, was supervised by Professor Edward Dreizin in the Otto H. York Department of Chemical, Biological, and Pharmaceutical Engineering.

While a doctoral student in chemical engineering he received second place honors for his oral presentation at the National Society of Black Engineers 40th Annual Convention Technical Research Exhibition competition in Nashville, Tennessee.

Five of our chemical engineering students were awarded internships and $5,000 scholarships from Merck. **Jennifer Cislo, Yohana Garcia, Bolutife Kolawole, Jennifer Ligo and Nida Riaz** will gain an invaluable experience to keep assessing the field in which they intend to gain employment. The students will be paid for the internships and the scholarships will be applied to their 2014-2015 tuition.
2014 MERIT AWARD CEREMONY

Each Spring, our department organizes a special ceremony for the presentation of Merit Awards for undergraduate students majoring in chemical engineering and chemistry.

Award Criteria:

1. A student must have a cumulative GPA of 3.5 or greater at the end of the Fall Semester.

2. In order to receive the full award, a student must have completed at least fifteen (15) credits for each of the previous Spring and Fall semesters, or a combination totaling 30 credits. Summer credits do not count towards Merit Award qualifications.

3. A partial award may be given to a student who has spent one semester on a Co-op...
AIChE

AIChE student chapter has won the Best Chapter Award 36 times since being founded in 1950. NJIT students receive free tutoring at any time in the AIChE student chapter lounge. Chapter leadership frequently gives presentations at local high schools to help promote interest in Science Technology Engineering and Math (STEM) fields.

AIChE participated in the Regional AIChE Conference where the Chem-E Car received second place this year at the University of Virginia on March 29, 2014. The Chem-E Car annual competition engages college students in designing and constructing a car powered by a chemical energy source that will safely carry a specified load over a given distance and stop.
CHEMICAL ENGINEERING ON THE RISE...

ChE Enrollment

Cohort FTFTF Graduation Rate
CONGRATULATIONS!!!
2014 CHEMICAL ENGINEERING GRADUATES
IN MEMORIAM

Dr. Marino Xanthos

The NJIT family mourns the loss of Marino Xanthos, Professor and Associate Provost of Fort Lee who passed on Thursday June 27, 2013. He was born in Athens, Greece and was a professor and associate provost for Graduate Studies at the New Jersey Institute of Technology. Dr. Xanthos received a bachelor's degree in chemistry from the University of Thessaloniki, in Greece, a M.A.Sc. and PhD in chemical engineering and applied chemistry from the University of Toronto, Canada.

Dr. Xanthos was the director of research in the Polymer Processing Institute at Steven's Institute of Technology prior to joining NJIT in 1995 as an associate professor of chemical engineering. Dr. Xanthos wrote numerous books and publications and was a member of the Society of Plastics Engineers (SPE), Polymer Processing Society (PPS) and the American Chemical Society (ACS). His primary areas of research were polymer blends and composites, polymer modification, reactive polymer processing, plastics recycling and polymer processing/structure/property relationships. He won the best paper award in the SPE Regional Technical Conference on "Blends, Alloys and Modified Polymers" in 1993.