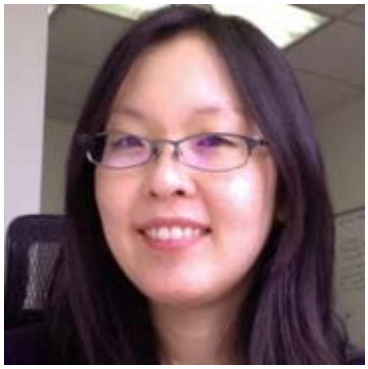
New York's American Chemical Society – Student Activities Committee
65th Annual Undergraduate Research Symposium
Fordham University
Bronx, NY
Saturday, May 6, 2017

8:00	**Registration and Continental Breakfast**	**Keating Rotunda**
9:00	**Welcoming Remarks**	**Keating 1st**
	Dr. Paul Sideris	Co-Chair, NY ACS, Student Activities Committee
	Dr. Ipsita Banerjee	Co-Chair, NY ACS, Student Activities Committee
	Dr. John P. Harrington	Associate Vice President and Dean, Faculty of Arts and Sciences
	Dr. Robert H. Beer	Chair, Fordham University Department of Chemistry
	Dr. Brian Gibney	2017 Chair, NY ACS
9:20	**Keynote Address**	**Keating 1st**
	Dr. Jin K. Montclare	**NYU Tandon School of Engineering**

Intelligent Self-Assembling Biomaterials

10:20	**Instructions for the day**	Dr. Ipsita Banerjee
10:30	**Group Photo**	**Keating Staircase**
11:00	**Presented Papers**	**Keating Hall, John Mulcahy Hall**
	Analytical Chemistry	Keating Hall, Basement
	Biochemistry	Keating Hall, 1st Floor
	Chemical Education	Keating Hall, 3rd Floor
	Environmental/Green Chemistry	Keating Hall, 2nd Floor
	Inorganic Chemistry	Keating Hall, 1st Floor
	Nano and Surface Chemistry	John Mulcahy Hall, 1st Floor
	Organic Chemistry	Keating Hall, 2nd Floor
	Physical Chemistry	Keating Hall, 3rd Floor
	Polymer Chemistry	Keating Hall, 3rd Floor
12:40	**Luncheon / Award Reception**	**McGinley Ballroom**
1:25	**Presentation of Certificates**	
	Dr. Meredith Foley	Co-Chair, NY ACS Student Activities Committee
	Dr. Naphtali O'Connor	Co-Chair, NY ACS Student Activities Committee
1:45	**Ice Cream Social & Raffle**	**McGinley Ballroom**
	The raffle includes a Kaplan Test Prep Package valued at more than $2K	

KEYNOTE SPEAKER



Dr. Jin K. Montclare

NYU Tandon School of Engineering

Jin Kim Montclare is an Associate Professor in the Department of Chemical and Biomolecular Engineering (CBE) at NYU Tandon School of Engineering (NYU SoE), who is performing groundbreaking research in engineering proteins to mimic nature and, in some cases, work better than nature. Prior to joining NYU SoE, Jin was an NIH postdoctoral fellow at the California Institute of Technology in the Division of Chemistry and Chemical Engineering in the Tirrell lab. She received a Bachelor of Science in Chemistry from Fordham University as a Goldwater and Clare Boothe Luce undergraduate fellow, a PhD in Bioorganic Chemistry from Yale University as an NSF and Pfizer predoctoral fellow. In 2015 began serving as Graduate Studies Director for CBE and Associate Director for Technology Advancement for the NYU Materials Research Science and Engineering Center, while leading the multidisciplinary Center for Innovation and Entrepreneurship at NYU SoE. Among her many honors and awards are the 2016 ACS WCC Rising Star Award, 2015 Agnes Faye Morgan Research Award from Iota Sigma Pi, 2014 Executive Leadership in Academic Technology and Engineering Fellowship, and 2014 Distinguished Award for Excellence, Dedication to Invention, Innovation and Entrepreneurship.

KEYNOTE ADDRESS

Intelligent Self-Assembling Biomaterials

Through centuries of evolution, nature has developed biopolymers capable of folding and assembling into discrete structures with a functional consequence. Inspired by this, our lab focuses on engineering "intelligent" protein materials with entirely new properties and function. In particular, our lab has fabricated protein-derived nanomaterials: helix-elastin block polymers and coiled-coil fibers. We investigate the fundamental self-assembly and molecular recognition capabilities of these systems. More importantly, we are able to harness these structure as well as others to interface with small molecule therapeutics, genes, cells and inorganic metals. Central to this work is the integration of stimuli-responsive domains through rational design.

SESSION MODERATORS

Moderator	Representing	Room	Section
Yianni Flouskakos	Fordham University	Keating B16	Analytical Chemistry I
Edward Haarmann	Fordham University	Keating B16	Analytical Chemistry I
Jacqueline Tobin	Fordham University	Keating B19	Analytical Chemistry II
Xiaoyurui Wang	Fordham University	Keating B19	Analytical Chemistry II
Anthony Costa	Fordham University	Keating 104	Biological Chemistry I
Jennifer Lei	Fordham University	Keating 104	Biological Chemistry I
Charles Seaks	Fordham University	Keating 105	Biological Chemistry II
Khushpreet Kaur	Queensborough CC	Keating 105	Biological Chemistry II
Brighid Morgan	Fordham University	Keating 110	Biological Chemistry III
Simranjeet Kaur	Queensborough CC	Keating 110	Biological Chemistry III
Chaudhary Harris	Fordham University	Keating 114	Biological Chemistry IV
Yifan Guan	Queensborough CC	Keating 114	Biological Chemistry IV
Adam Agababayev	Fordham University	Keating 116	Biological Chemistry V
Johnny Chan	Queensborough CC	Keating 116	Biological Chemistry V
Nicole Porco	Fordham University	Keating 204	Green Chemistry I
James Mercado	Lehman College	Keating 204	Green Chemistry I
Laxshika Raveendran	Fordham University	Keating 205	Green Chemistry II
Jennifer Guzman	Lehman College	Keating 205	Green Chemistry II
Stephanie Giordano	Fordham University	Keating 206	Green Chemistry III
Bryan Obregon	Queensborough CC	Keating 206	Green Chemistry III
Nina Le	Fordham University	Keating 208	Green Chemistry IV
Zuraitza R. Moreno	Queensborough CC	Keating 208	Green Chemistry IV
Patrick Jennings	Fordham University	Keating 209	Green Chemistry V
Leslie J. Ramirez	Queensborough CC	Keating 209	Green Chemistry V
Louis Moskovitz	Fordham University	Keating 120	Inorganic Chemistry I
Nnonyem Sappleton	Pace University	Keating 120	Inorganic Chemistry I
Nicole Smina	Fordham University	Keating 121	Inorganic Chemistry II
Rochile Khan	Adelphi University	Keating 121	Inorganic Chemistry II

SESSION MODERATORS

Moderator	Representing	Room	Section
Ricardo M. Valencia	Fordham University	Mulcahy 108	Nano/Surface Chemistry I
Kelly Zhu	Adelphi University	Mulcahy 108	Nano/Surface Chemistry I
Margaret Sullivan	Fordham University	Mulcahy 112	Nano/Surface Chemistry II
Aduke Saibu	Pace University	Mulcahy 112	Nano/Surface Chemistry II
Michael Gleeson	Fordham University	Mulcahy 132	Nano/Surface Chemistry III
Samantha Wynter	Adelphi University	Mulcahy 132	Nano/Surface Chemistry III
Gurpreet Singh	Fordham University	Mulcahy 140	Nano/Surface Chemistry IV
Joseph J. Almasri	St. John's University	Mulcahy 140	Nano/Surface Chemistry IV
Roland Correa	Fordham University	Keating 214	Organic Chemistry I
Chandini Pillai	St. John's University	Keating 214	Organic Chemistry I
Farjahan Akhter	Fordham University	Keating 215	Organic Chemistry II
Sarah S. Khan	Queensborough CC	Keating 215	Organic Chemistry II
Brian El Zokm	Queensborough CC	Keating 218	Organic Chemistry III
Daniel Vreeland	Queensborough CC	Keating 218	Organic Chemistry III
Ahef Ameer	Queensborough CC	Keating 219	Organic Chemistry IV
Ike Ariza	Queensborough CC	Keating 219	Organic Chemistry IV
Momoka Nagamine	Adelphi University	Keating 317	Physical Chemistry I
Ismailov Temurjon	Adelphi University	Keating 317	Physical Chemistry I
Yveline Lamothe	College of New Rochelle	Keating 318	Physical Chemistry II/Chem.Ed.
Maty Sembene	College of New Rochelle	Keating 318	Physical Chemistry II/Chem.Ed.
Grisel Medrano	College of New Rochelle	Keating 312	Polymer Chemistry
Snove-tia Cape	College of New Rochelle	Keating 312	Polymer Chemistry
Isabella Jean-charles	College of New Rochelle	Keating 312	Polymer Chemistry

ANALYTICAL CHEMISTRY I

Room: Keating B16 **Moderators:** Yianni Flouskakos/Edward Haarmann

11:00 USING THE HARD AND SOFT, ACIDS AND BASES THEORY TO PREDICT ORGANOPHOSPHATE- TARGET INTERACTIONS. Aicha Bendia, Urs Jans Department of Chemistry, City College of New York. 160 Convent Ave, New York, NY 10031

11:15 MALDI MS-PHOSPHORYLATION STUDY OF HIV PROTEIN-P6. Celenne Santana[1], Pratikkumar Rathod[2,3] Hsin-Pin Ho[2,3] Kevin Mark[1,2] Dr. Mathias Lichterfled[4,5] and Emmanuel Chang[2,3] Department of Natural Sciences, [1]LaGuardia Community College; Department of Chemistry. York College and the [3]Graduate Center/city University of New York [4]Ragon Institute of MGH, MIT and Harvard [5]Infectious Disease Division- MGH

11:30 A MULTI-PRONGED STRATEGY TO IDENTIFY HIV PROTEIN PHOSPHORYLATION SITES. Kathleen Rowe,[1] Pratikkumar Rathod,[2,3] Hsin-Pin Ho,[2,3] Kevin Mark[1,2] and Emmanuel Chang[2,3] Department of Natural Sciences, [1]LaGuardia Community College; Department of Chemistry, 31-10 Thomson Avenue, Long Island City, NY 11101. [2]York College and the [3]Graduate Center/City University of New York

11:45 DEVELOPMENT OF COPPER-NICKEL BIMETALLIC AND COPPER-NICKEL-PALLADIUM TRIMETALLIC HETEROGENEOUS CATALYSTS ILLUSTRATE CO_2 REDUCTION THROUGH DRY REFORMING REACTION WITH METHANE. Luyun Jiao and Cheng Zhang Department of Chemistry, Long Island University Post Campus, Greenvale, NY 11548

12:00 CHARACTERIZATION OF COMPOSITION AND PHYSICAL PROPERTIES OF UNEQUILIBRATED ORDINARY CHONDRITE NWA8709. Juliette W. Strasser,[1] John M. Friedrich,[1,2] and Mark L. Rivers[3] [1]Department of Chemistry, Fordham University, Bronx, NY 10458 USA [2]Department of Earth and Planetary Sciences, American Museum of Natural History, New York, NY 10024 USA [3]Center for Advanced Radiation Sources, University of Chicago, Argonne, Illinois 60439

12:15 INVESTIGATION OF LUMINESCENCE RESPONSE OF RU(PHEN)$_3^{2+}$ TO POLYANIONIC CARRAGEENANS AND HEPARINS. Sophia Prentzas and Jianwei Fan Department of Chemistry and Biochemistry, Manhattan College, Riverdale, NY 10471

ANALYTICAL CHEMISTRY II

Room: Keating B19 **Moderators:** Jacqueline Tobin/Xiaoyurui Wang

11:00 DETERMINATION OF THE IONIZATION CONSTANT OF CARBOXYLIC ACIDS IN MIXED SOLVENTS USING MICROSCALE FREEZING POINT DEPRESSION MEASUREMENTS AND THE VAN'T HOFF FACTOR. David Kwun and Paris Svoronos Department of Chemistry, Queensborough Community College, Bayside NY 11364.

11:15 DETERMINATION OF THE IONIZATION CONSTANT OF CARBOXYLIC ACIDS IN AQEUOUS SOLUTIONS USING FREEZING POINT DEPRESSION MEASUREMENTS. Edison Mera, David Kwun, Tian Xu and Paris Svoronos. Queensborough Community College, Department of Chemistry, Bayside NY 11364

11:30 DETERMINATION OF THE TOTAL AMOUNT OF ANTIOXIDANTS PRESENT IN COMMERCIALLY AVAILABLE BEVERAGES VIA THE FOLIN CIOCALTEAU MICROSPECTROPHOTOMETRIC ANALYSIS. Julie Leong, Margaret de los Santos, Pedro Irigoyen, Gobind Vaswani, Soraya Svoronos and Paris Svoronos, Queensborough Community College, Chemistry Department, Bayside NY 11364

11:45 QUANTITATIVE DETERMINATION OF THE ANTIOXIDANT GALLIC ACID IN JUICE BEVERAGES. Margaret de los Santos, Julie Leong, Bruce Montalbano and Paris Svoronos, Queensborough Community College, Chemistry Department, Bayside NY 11364

12:00 REFRACTIVE INDEX OF OXALIC ACID MEASURED BY ZOOM-IN METHOD AND EXTENSION METHOD. Ha Eun Kim, Jun H. Shin, Department of Chemistry, Queensborough Community College, Bayside, NY 11364

BIOLOGICAL CHEMISTRY I

Room: Keating 104 **Moderators:** Anthony Costa/Jennifer Lei

11:00 USING SITE SATURATION MUTAGENESIS TO IDENTIFY RESIDUES THAT CONTRIBUTE TO CEPHAMYCINASE ACTIVITY IN FOX-4. Jennifer Kim and Scott T. Lefurgy Department of Chemistry, Hofstra University, Hempstead, NY 11549

11:15 STRUCTURAL AND FUNCTIONAL CHARACTERIZATION OF FOX-4 CEPHAMYCINASE. Christina Mary Joseph, Anthony Sica, and Scott Lefurgy Department of Chemistry, Hofstra University, Hempstead, NY 11549

11:30 NOVEL GROUP OF OXYQUINOLINE INHIBITORS OF HIF PROLYL HYDROXYLASE. Olya Besedina,[1] Ellen Weiser,[1] Nancy Krucher[2] and Irina Gazaryan[1] [1]Department of Chemistry & Physical Sciences [2]Department of Biology, Pace University, Pleasantville, New York 10570

11:45 EXPLORING THE ROLE OF GLN120 IN ENTEROBACTER CLOACAE P99 CEPHALOSPORINASE BY SITE-SATURATION MUTAGENESIS. Anastasia Brodovskaya and Scott Lefurgy Department of Chemistry, Hofstra University, Hempstead, NY 11549

12:00 STRUCTURE-FUNCTION RELATIONSHIPS IN P99 CEPHALOSPORINASE. Anthony Sica, Jenn Kim, and Scott Lefurgy Department of Chemistry, Hofstra University, Hempstead, NY 11549

BIOLOGICAL CHEMISTRY II

Room: Keating 105 **Moderators:** Charles Seaks/Khushpreet Kaur

11:00 STRUCTURAL STUDIES OF ADENOVIRAL E4ORF1 GENE PRODUCT AND ANGIOGENIC IMPLICATIONS. Carolyn Allain and Paul Smith, Department of Chemistry, Fordham University, Bronx, NY 10458

11:15 MOLECULAR DYNAMICS SIMULATION TO INVESTIGATE STABILITY OF AMYLOID-AMYLOID AND AMYLOID-HCC COMPLEXES IN ALZHEIMER'S DISEASE. Ermin Tale, Joseph Persichetti, and Arun Sharma Department of Chemistry, Wagner College, Staten Island, NY 10301

11:30 DEFINING THE YEAST NUCLEOSOMAL PROTEIN INTERACTOME UTILIZING A PCR-BASED STRATEGY. Gabriela Bukanowska and Bryan J. Wilkins Department of Chemistry and Biochemistry, Manhattan College, Riverdale, NY 10471

11:45 SYSTEMATIC OPTIMIZATION AND MODIFICATION OF A DNA APTAMER WITH 2'-O-METHYL RNA ANALOGUES. George E. Maio[2], Osita Enweronye[2], Hasan E. Zumrut[1], Sana Batool[2], Nabeela Van[2], Prabodhika Mallikaratchy[1,2]. [1]Biochemistry PhD Program, City University of New York, The Graduate Center, New York, NY, 10016; [2]Department of Chemistry, City University of New York: Lehman College, Bronx, NY 10468

12:00 EXPLORING CHROMATIN DYNAMICS WITHIN THE DNA DAMAGE RESPONSE PATHWAY IN LIVING CELLS. Joseph Mozdzierz, Bright Shi, and Bryan Wilkins Department of Chemistry and Biochemistry, Manhattan College, Riverdale, NY 10471

12:15 TEMPORAL RESISTANCE IN POTATO TUBERS: ANTIBACTERIAL ACTIVITY OF WOUND-HEALING TISSUE EXTRACTS FROM CONTRASTING POTATO CULTIVARS. Mathiu Perez Rodriguez,[1] Keyvan Dastmalchi,[1] Aaron Mychak,[2] Janni Lin,[1] Anuradha Janakiraman,[2] and Ruth E. Stark[1] [1]Department of Chemistry and Biochemistry, The City College of New York (CCNY), City University of New York Ph.D. Programs and CUNY Institute for Macromolecular Assemblies, New York, NY, 10031 USA.[2]Department of Biology, CCNY and CUNY Ph.D. Programs.

BIOLOGICAL CHEMISTRY III

Room: Keating 110 **Moderators:** Brighid Morgan/Simranjeet Kaur

11:00 EXAMINING THE EFFECT OF OXIDATIVE STRESS ON THD11, A SIRTUIN FOUND IN *TETRAHYMENA THERMOPHILA*. Kabir Omolaja and Ralph Alcendor Department of Biological Sciences, New York City College of Technology, Brooklyn, New York 11201

11:15 DIRECT ACTIVATION OF ANTIOXIDANT PROGRAM WITH TRANSITION METALS. Linh Nguyen[1], Ellen Weiser[1], Nancy Krucher[2] and Irina Gazaryan[1] [1]Department of Chemistry & Physical Sciences, and [2] Department of Biology, Pace University, Pleasantville, NY 10570

11:30 MALE SEX HORMONES REGULATE HUMAN ENDOTHELIAL NITRIC OXIDE SYNTHASE SYSTEM THROUGH THE MODULATION OF CATIONIC AMINO ACID TRANSPORTER-1. Lior Levy[1], Tamara Chernichovski[2], and Idit Schwartz[2] [1]Stern College for Women, Yeshiva University, New York, NY, [2]Department of Nephrology, Sackler School of Medicine, Tel Aviv Sourasky Medical Center, Tel Aviv University, Tel Aviv, Israel, 64239

11:45 COPPER BINDING PROPERTIES AND ANTI-AMYLOIDOGENIC ABILITY OF MULTI-TARGET LIGANDS. Miguel A. Gomez and Alberto Martínez. Department of Chemistry, NYC College of Technology, Brooklyn, NY 11201

12:00 NOVEL TI-AU AND RU-AU HETERO-BIMETALLIC COMPOUNDS AS POTENTIAL CANCER CHEMOTHERAPEUTICS. Mike Cornejo,[1] Benelita T. Elie,[1,2] Yiu Fung Mui,[1,3] and Maria Contel[1-3] [1]Department of Chemistry, Brooklyn College, The City University of New York, Brooklyn, NY, 11210, US. PhD Program in Biology[2] and Chemistry[3] The Graduate Center, The City University of New York, 365 Fifth Avenue, New York, NY, 10016, US.

12:15 INVESTIGATION OF EFFECT OF MONOVALENT SALTS ON APTAMER FOLDING. Nabeela Van,[2] Sana Batool,[2] Hazan Zumrut,[1] Shanell George,[2] Sanam Bhandari,[2] and Prabodhika Mallikaratchy[1,2] [1]Ph.D. Program in Chemistry and Biochemistry, CUNY Graduate Center, 365 Fifth Avenue, New York, NY 10016, [2]Department of Chemistry, Lehman College, The City University of New York Bronx, NY 10468

BIOLOGICAL CHEMISTRY IV

Room: Keating 114 **Moderators:** Harris Chaudhary /Yifan Guan

11:00 ANTIBACTERIAL ASSESSMENT AND SOLID-STATE NMR ANALYSIS OF NATIVE PERIDERM FROM RNAi-SILENCED *StNAC103* POTATO TUBERS. Oseloka Chira, Keyvan Dastmalchi, and Ruth E. Stark Department of Chemistry and Biochemistry, The City College of New York, (CCNY), City University of New York Ph.D. Programs and CUNY Institute for Macromolecular Assemblies, New York, NY 10031

11:15 INVESTIGATION OF SPECIFICITY OF AN APTAMER SELECTED AGAINST A B-CELL MARKER. Sana Batool,[2] Hazan Zumrut[1], Nabeela Van,[2] Shanell George,[2] Sanam Bhandari,[2] and Prabodhika Mallikaratchy[1,2] [1]Ph.D. Program in Chemistry and Biochemistry, CUNY Graduate Center, 365 Fifth Avenue, New York, NY 10016, [2]Department of Chemistry, Lehman College, The City University of New York Bronx, NY 10468

11:30 DESIGN OF A DIMERIC APTAMER AGAINST B-CELL RECEPTOR. Sanam Bhandari,[2] Hazan Zumrut,[1] Sana Batool,[2] Nabeela Van,[2] Shanell George,[2] and Prabodhika Mallikaratchy[1,2] [1]Ph.D. Program in Chemistry and Biochemistry, CUNY Graduate Center, 365 Fifth Avenue, New York, NY 10016, [2]Department of Chemistry, Lehman College, The City University of New York Bronx, NY 10468

11:45 DEVELOPMENT OF NANOSCALE ASSEMBLIES FROM HETEROCYCLIC BIOMIMICS FOR DNA BINDING AND FOR ANTIOXIDANT ACTIVITY. Sarah A. Lundell, Alexandra M. Brown and Ipsita A. Banerjee Department of Chemistry, 441 E. Fordham Road, Fordham University, Bronx, NY 10458

12:00 LIPOBEADS: MANIPULATION OF PHOSPHOLIPID BILAYER COMPOSITION TO FORM UNILAMELLAR COATING ON MICROGELS. Sarah Rahni and Sergey V. Kazakov Department of Chemistry & Physical Sciences, Pace University, Pleasantville, New York 10570

12:15 PHOSPHOPROTEIN ENRICHED IN ASTROCYTES 15 (PEA-15) CHANGES CONFIRMATION UPON PHOSPHORYLATION AND INTERACTION WITH FADD. Julissa Marrero, Sergio Crespo, Victor Leon, and Yufeng Wei Chemistry Department, New Jersey City University, Jersey City, NJ 07305

BIOLOGICAL CHEMISTRY V

Room: Keating 116 **Moderators:** Adam Agababayev/Johnny Chan

11:00 SYSTEMATIC INVESTIGATION OF EFFECT OF TEMPERATURE ON AN APTAMER FOLDING. Shanell George,[2] Sana Batool,[2] Hazan Zumrut[1], Nabeela Van,[2] Sanam Bhandari,[2] and Prabodhika Mallikaratchy[1,2] [1]Ph.D. Program in Chemistry and Biochemistry, CUNY Graduate Center, 365 Fifth Avenue, New York, NY 10016, [2]Department of Chemistry, Lehman College, The City University of New York Bronx, NY 10468

11:15 ANTIVIRAL ACTIVITY OF HERBAL FORMULATION AGAINST HUMAN IMMUNODEFICIENCY VIRUSES. Tiffany Garcia, Reese Long, Revathi Iyengar and José A. Fernández Romero Science Department, Borough of Manhattan Community College, 199 Chambers Street, New York, NY 10007

11:30 A STUDY IN NUTRIGENOMICS: HOW DO DIETARY VARIATIONS INFLUENCE EPIGENETIC STATUS? Tiffany Rodriguez, Matthew Nardini and Bryan Wilkins Department of Chemistry and Biochemistry, Manhattan College, Bronx, NY, 10471

11:45 EXAMING THE EFFECT OF OXIDATIVE STRESS ON TETRAHYMENA THERMOPHILE SIRTUINS, THD17. Victor O. Adedara and Ralph Alcendor Department of Biology, New York City College of Technology, Brooklyn, NY 11201

12:00 CHARACTERIZATION OF THE PUTATIVELY HETERODIMERIC PROTEINACEOUS ICHTHYOTOXIN OF PTEROIS VOLITANS. Zachary F. Mattes, Nina A. Le and Paul Smith Department of Chemistry, Fordham University, Bronx, NY 10458

12:15 THE ENCAPSULATION OF TETRA TOLYL PORPHYRIN MOLECULES INTO MEMBRANOUS VESICLES. Shadi Khayyo, Jameel Batarseh, Jose Mendoza, Arian Novaj, Steven Maio, Rita Guglielmo, Valerie Khayyo, and Pamela K. Kerrigan College of Mount Saint Vincent, Bronx, New York, 10471

GREEN CHEMISTRY I

Room: Keating 204 **Moderators:** Nicole Porco/James Mercado

11:00 ACTIVATED CHARCOAL-BOUND ASCORBIC ACID: REDUCTION OF CR(VI) TO CR(III) AND RECYCLING. Analisse Rosario and John Regan, Department of Chemistry and Biochemistry, Manhattan College, Riverdale, New York 10471

11:15 REMOVAL OF MN(II) IONS FROM WATER BY A CHELATION-ABSORPTION STRATEGY. Ashley Abid, Kaitlyn Rooney and John Regan, Department of Chemistry and Biochemistry, Manhattan College, Riverdale, New York 10471

11:30 CORRELATION OF DENSITY FUNCTIONAL THEORY WITH EXPERIMENTAL RESULTS FOR REACTIONS BETWEEN BIDENTATE CHELATING AGENTS AND CHROMATE. Douglas Huntington, Joseph F. Capitani and John Regan Department of Chemistry and Biochemistry, Manhattan College, Riverdale, New York 10471

11:45 POLYOLS AS BIDENDTATE CAPTURE REAGENTS FOR CR(VI) ION REMOVAL. Mary Cacace and John Regan, Department of Chemistry and Biochemistry, Manhattan College, Riverdale, New York 10471

12:00 2,2'-BIPHENOL AS AN INSOLUBLE REAGENT FOR THE REMOVAL OF CR(VI) FROM WATER. Twinkle Saini and John Regan, Department of Chemistry and Biochemistry, Manhattan College, Riverdale, New York 10471

12:15 ASSESSING THE SOURCE AND FATE OF NITRATE IN GROUNDWATER OF UPPER GLACIAL AQUIFER OF SOUTHEAST QUEENS NEW YORK CITY. Ality Aghedo, Phillip Frank and Ratan Dhar Department of Earth and Physical Sciences, York College – CUNY, Jamaica, NY 11451

GREEN CHEMISTRY II

Room: Keating 205 **Moderators:** Laxshika Raveendran/Jennifer Guzman

11:00 SYNTHESIS AND CHARACTERIZATION OF PYRROLIDINIUM IONIC LIQUIDS BEARING SYMMETRICAL AND ASYMMETRICAL FLUOROUS ANIONS. Jasodra Ramdihal,[1] Chanele Rodriguez,[1] Edward Castner,[2] James Wishart[1] and Sharon Lall-Ramnarine[1]. [1]Department of Chemistry, Queensborough Community College of CUNY, Bayside, NY 11364. [2]Department of Chemistry and Chemical Biology, Rutgers University, Piscataway, NJ, 08854. [1]Department of Chemistry, Brookhaven National Laboratory, Upton, NY 11973.

11:15 CONNECTING STRUCTURAL AND TRANSPORT PROPERTIES OF IONIC LIQUIDS WITH CATIONIC OLIGOETHER CHAINS. Chanele Rodriguez,[1,2] Man Zhao,[2] Nicole Zmich,[3] Dr. Suraj Dhiman,[3]Dr. Edward Castner,[2] Dr. James F. Wishart[3] and Dr. Sharon Lall-Ramnarine,[1] [1]Department of Chemistry, Queensborough Community College of CUNY, Bayside, NY, 11364; [2] Rutgers University, Piscataway, NJ 08854; [3]Chemistry Department, Brookhaven National Laboratory, Upton, NY, 11973

11:30 PHYSICAL PROPERTIES OF IMIDAZOLIUM IONIC LIQUIDS BEARING SYMMETRICAL AND ASYMMETRICAL FLUORINATED SULFONAMIDE ANIONS. Kristina Papacostas,[1] Jasodra Ramdihal,[1] Eddie Fenandez[1], Dr. Edward Castner,[2] Dr. James Wishart[3] and Dr. Sharon Lall-Ramnarine,[1] [1]Department of Chemistry, Queensborough Community College, Bayside, NY, 11364; [2]Department of Chemistry and Chemical Biology, Rutgers University, Piscataway, NJ, 08854; [3]Department of Chemistry, Brookhaven National Laboratory, Upton, NY 11973.

11:45 IONIC LIQUID MIXTURES WITH SINGLE-WALLED CARBON NANOTUBES AS ELECTROLYTES FOR DYE-SENSITIZED SOLAR CELLS. Rawlric Sumner,[1] Eddie Fernandez,[2] Tirandai Hemraj-Benny,[1] and Sharon Lall-Ramnarine,[1] [1]Department of Chemistry, Queensborough Community College of CUNY, Bayside, NY 11364. [2]Department of Chemistry and Biochemistry, Queens College, CUNY, Flushing, NY 11367

12:00 THE SYNTHESIS OF IONIC LIQUIDS THAT RESEMBLE NEUROTRANSMITTERS. Juliet Mengaziol, Marie Thomas, Fordham University, 113 W 60th St, New York, NY 10023.

GREEN CHEMISTRY III

Room: Keating 206 **Moderators:** Stephanie Giordano/Bryan Obregon

11:00 GREEN SYTHESIS OF BIOFUEL FROM COFFEE OIL AND WASTE SHELLS. Chris de la Bastide, Yelda Hangun-Balkir Department of Chemistry & Biochemistry, Manhattan College, Riverdale NY, 10471

11:15 PREPARATION AND CHARACTERIZATION OF CHEMICALLY-MODIFIED BIOMATERIALS AND THEIR APPLICATION AS ADSORBENTS OF PENICILLIN G. Jacqueline Baah Twum and Abel Navarro. Science Department, Borough of Manhattan Community College, New York, NY 10007

11:30 IRON AND OXYGEN CYCLING IN A SIMULATED EUROPAN OCEAN. Jovan Mirkovic, Robin J. Schneider Department of Chemistry, St. John's University, Queens, NY 11439

11:45 USING ELECTROLYTE SOLUTIONS TO DISSOLVE CELLULOSE. Anne Chen, Mike Yuan, Marie Thomas, Fordham University, 113 W 60th St, New York, NY 10023.

12:00 SYNTHESIS AND CHARACTERIZATION OF GREEN RUST: AN UNUSUAL PARTIALLY OXIDIZED IRON OXIDE HYDROXIDE. Katherine Ferreras, John Nobleman, Aisha Ashfaq, Glen Kowach, Urs Jans. Department of Chemistry, The City College of New York, 160 Convent Avenue, New York, New York 10031

GREEN CHEMISTRY IV

Room: Keating 208 **Moderators:** Nina Le/Zuraitza R. Moreno

11:00 ENVIRONMENTALLY BENIGN SYTHESIS OF BIODIESEL FROM ALGAE OIL AND BIOWASTE. Kristina Palmieri and Yelda Hangun-Balkir Department of Chemistry, Manhattan College, Bronx, NY, 10471

11:15 EFFECT OF ORGANIC MATTER ON CADMIUM AND CHROMIUM MOBILITY DURING IN SITU CHEMICAL OXIDATION. Lassana Diawara, Andrew Peck, Robin J. Schneider Department of Chemistry, St. John's University, Queens, NY 11439

11:30 SYNTHESIS OF BIODIESEL FUEL FROM RENEWABLE FEEDSTOCK AND WASTE MATERIALS. Lauren Onello, Dr. Yelda Balkir Department of Environmental Science, Manhattan College, 4513 Manhattan College Parkway Riverdale, NY 10471

11:45 TACKLING EUTROPHICATION THROUGH THE ELIMINATION OF PHOSPHATES FROM SYNTHETIC AND REAL WATER. Abel Navarro, Makini Valentine Borough of Manhattan Community College, 199 Chambers Street New York, NY 10007

12:00 ADSORPTION OF PHENOL FROM AQUEOUS SOLUTIONS WITH NATIVE CARIBBEAN SEAWEED: PURIFY TOXICITY OF PHENOL FROM WATER. Md Samirul Islam, Abel E Navarro Borough of Manhattan Community College, New York, NY 10007

GREEN CHEMISTRY V

Room: Keating 209 **Moderators:** Patrick Jennings/Leslie J. Ramirez

11:00 FLUORIDE IN GROUNDWATER IN SOUTH EASTERN BANGLADESH. Regina Ismaili, Sarah Alauddin and Mohammad Alauddin, Department of Chemistry, Wagner College, Staten Island, New York 10301

11:15 OXIDATION-INDUCED CHANGES IN MARINE BIOMASS: FROM PHYTOPLANKTON TO SEDIMENTARY ORGANIC MATTER. Rosie Wenrich and Alessandra Leri Department of Natural Sciences, Marymount Manhattan College, New York, NY 10021

11:30 INVESTIGATING METAL MOBILITY DURING ISCO VIA BATCH AND COLUMN LEACH TESTS. Stefani T. Johnson, Robin J. Schneider Department of Chemistry, St. John's University, Queens, NY 11439

11:45 DEVELOPMENT OF SUPPORTED Ni-Pd BIMETALLIC AND Ni-Mo-Pd TRIMETALLIC HETEROGENEOUS CATALYSTS FOR DRY REFORMING OF CARBON DIOXIDE WITH METHANE. Susanna Mirabelli, Cheng Zhang Department of Chemistry, LIU Post College of Liberal Arts and Science, Greenvale, NY 11548

INORGANIC CHEMISTRY I

Room: Keating 120 **Moderators:** Louis Moskovitz/ Nnonyem Sappleton

11:00 SYNTHESIS OF NOVEL PHOSPHINE LIGANDS WITH AN IMIDIZOLIUM TETHER FOR USE IN BIPHASIC REACTION MEDIA. Matthew ET Miller, Christopher Parnell, and Richard J. Rosso, Ph.D. Department of Chemistry, St. John's University, Queens, NY 11439

11:15 DETERMINING THE CRYSTAL STRUCTURE OF THE MICROPOROUS ALUMINOSILICATE ZEOLITE, SUZ-9. Jessi Dolores and Richard M. Kirchner, Department of Chemistry and Biochemistry, Manhattan College, Bronx, NY 10471

11:30 SYNTHETIC APPROACHES TO NOVEL ANTIBODY-GOLD BASED DRUG CONJUGATES FOR TARGETED DELIVERY IN CANCER CHEMOTHERAPY. Guillaume Dewaele Le Roi,[1,2] Benelita T. Elie,[1,3] Natalia Curado,[1] Joshua Mathew,[1] and Maria Contel*,[1-3] [1]Department of Chemistry, Brooklyn College, The City University of New York, Brooklyn, NY, 11210, US. PhD Programs in Chemistry[2] and Biology,[3] The Graduate Center, The City University of New York, 365 Fifth Avenue, New York, NY, 10016, US.

11:45 INTRACELLULAR LOCALIZATION OF A POTENTIAL ANTICANCER CHEMOTHERAPEUTIC: INCORPORATION OF A BODIPY-BASED FLUORESCENT PROBE ONTO THE SCAFFOLD OF A RUTHENIUM(II)-IMINOPHOSPHORANE COMPLEX. Kirill Miachin[1], Patricia Appelt[1,2], Yiu Fung Mui,[1,3] and Maria Contel*[,1,3,4] [1]Department of Chemistry, Brooklyn College, The City University of New York, Brooklyn, NY, 11210, US. [2]Departamento de Quimica, Universidade Federal do Parana (UFPR), Curitiba, PR, Brazil. PhD Programs in Chemistry[2] and Biology,[3], The Graduate Center, The City University of New York, 365 Fifth Avenue, New York, NY, 10016, US

12:00 $RE^{V}O$ TRIPEPTIDES AS A MODELS TO UNDERSTAND THE STRUCTURE AND BINDING OF ^{188}RE IN AN N_3SCHELATE. Ordy Gnewou, Bihn Nguyen, Donna McGregor, Gustavo Lopez, Benjamin Burton-Pye. Department of Chemistry, Lehman College, Bronx, NY, 10468

INORGANIC CHEMISTRY II

Room: Keating 121 **Moderators:** Nicole Smina/Rochile Khan

11:00 SYNTHESIS AND CHARACTERIZATION OF RHODIUM (III) COMPLEXES USING POLYPYRIDYL LIGANDS. Peter Nunez, Daniel Amarante Department of Chemistry & Biochemistry, College of Mount Saint Vincent, Riverdale, NY 10471

11:15 SYNTHESIS OF BIS(2,2'-BIPYRIDINE)-CARBONYL-OSMIUM(II) COMPLEXES WITH VARYING PYRIDINE LIGANDS. Veronica Krasecki and Elise G. Megehee Department of Chemistry, St. John's University, Queens, NY 11439

11:30 CO_2 CONVERSION VIA DRY REFORMING METHOD WITH METHANE OVER SUPPORTED CONI BIMETALLIC AND CONIPD TRIMETALLIC CATALYSTS. Scott Bamonte and Cheng Zhang. Department of Chemistry, Long Island University-Post, Brookville, NY 11548

11:45 SCREENING OF METAL COMPLEXES USING A DISSOLVED OXYGEN OPTICAL PROBE FOR OXYGEN DETECTION. Genesis Renderos, Jacqueline Guevara and Yosra M. Badiei Department of Chemistry, St. Peter's University, Jersey City, NJ 07306

12:00 SURFACTANT-ASSISTED HYDROTHERMAL SYNTHESIS AND CHARACTERIZATION OF $LiFe_{1-x}Mn_xPO_4$. Sindy Ferreiras, Krystal Lee and Paul J. Sideris Department of Chemistry, CUNY Queensborough Community College, Bayside, N.Y. 11364

NANO AND SURFACE CHEMISTRY I

Room: Mulcahy 108 **Moderators:** Ricardo M. Valencia/Kelly Zhu

11:00 PHENYL MODIFIED ANTICORROSIVE COATINGS. G. Rodriguez[1], Jenifer Guzman[1], I. Levy[2], M. Aparicio[3], Rana Daher[4], M. Jitianu[4], L.C. Klein[5] Andrei Jitianu[1, 2] [1]Lehman College, City University of New York, Department of Chemistry, Davis Hall, 250 Bedford Park Boulevard West, Bronx, New York 10468, [2]PhD. Program in Chemistry and Biochemistry, The Graduate Center of the City University of New York, New York, NY 10016, [3]Instituto de Cerámica y Vidrio, Consejo Superior de Investigaciones Científicas (CSIC), Kelsen 5 (Campus de Cantoblanco) 28049 Madrid, SPAIN, [4]William Paterson University, 300 Pompton Road Wayne, New Jersey 07470, [5]Department of Materials Science and Engineering, Rutgers University, 607 Taylor Road, Piscataway, New Jersey 08854, USA

11:15 STUDY OF FORMATION OF ETHYL MODIFIED HYBRID COATINGS FOR CORROSION PROTECTION. Grant Akalonu[1], Quentin Picard[1], James Mercado[1], Lisa C. Klein[2], Andrei Jitianu[1], [1]Department of Chemistry, Lehman College, CUNY, Davis Hall, 250 Bedford Park Boulevard West, Bronx, New York 10468, [2]Department of Materials Science and Engineering, Rutgers University, 607 Taylor Road, Piscataway, NJ, 08854

11:30 RHODANINE BASED COMPLEX AS A TEMPLATE FOR PMHS COATING. Tao Hong[1], Moni Chauhan[1], Aarti Patel[2] and Bhanu Chauhan[2] [1]Department of Chemistry, Queensborough Community College, Bayside, NY 11364, [2]Department of Chemistry, William Paterson University, Wayne, NJ 07470

11:45 MICROWAVE SYNTHESIS OF PDMS COATED POLYRHODANINE NANOCOMPOSITE. Anjali Gaba and Moni Chauhan Department of Chemistry, Queensborough Community College, Bayside, NY 11364

12:00 1,3,5,7-TETRAMETHYLCYCLOTETRASILOXANE POLYRHODANINE NANOTUBES. Evens Esperance[1], Moni Chauhan[1], Aarti Patel[2] and Bhanu Chauhan[2] [1]Department of Chemistry, Queensborough Community College, Bayside, NY 11364, [2]Department of Chemistry, William Paterson University, Wayne, NJ 07470

12:15 DETERMINATION OF THE CRYSTAL STRUCTURE OF ALUMINOSILICATE ZEOLITE, SUZ-9. Daisuke Robert Kuroshima and Richard M. Kirchner Department of Chemistry and Biochemistry, Manhattan College, Riverdale, NY 10471

NANO AND SURFACE CHEMISTRY II

Room: Mulcahy 112 **Moderators:** Margaret Sullivan/Aduke Saibu

11:00 X-RAY PHOTOELECTRON SPECTROSCOPY OF IMMOBILIZED DNA AND MORPHOLINO. Michael Yang[1], Ursula Koniges[1], Rastislav Levicky[1]. Department of Chemical & Biomolecular Engineering, New York University, 6 Metrotech Center, New York, NY 11201

11:15 FABRICATION OF NEW PEPTIDE-POLYPHENOL BASED SCAFFOLD CONSTRUCTS FOR SOFT TISSUE ENGINEERING. Harrison T. Pajovich, Andrew M. Smith, Sarah K. Hurley, Jessica R. Dorilio, Nicole M. Cutrone, and Ipsita A. Banerjee Department of Chemistry, Fordham University, Bronx, NY 10458

11:30 MICELLE DRIVEN SELF-ASSEMBLY OF SILVER NANOPARTICLES. Mei Wai Tsui and Deborah Berhanu, Department of Physical Science, Kingsborough Community College, Brooklyn, NY 11235

11:45 FORMATION OF NANOSCALE DRUG DELIVERY CONSTRUCTS USING PEPTIDE AMPHIPHILE MIMICS Nicole M Cutrone[1], Sara K. Hurley[1], Jessica R. Dorillio[1], Harrison T. Pajovich[1], Jeremy Garcia[2], Karl R. Fath[2], Ipsita A. Banerjee,[1] [1]Department of Chemistry, Fordham University, 441 E. Fordham Road, Bronx NY 10458, [2]Department of Biology, Queens College, CUNY, Kissena Boulevard, Flushing, NY 11365

12:00 PEPTIDE-CONJUGATED NANOCOMPOSITES FOR OVARIAN CANCER CELL TARGETING. Sara K. Hurley, Nicole M. Cutrone, Jessica R. Dorilio, Harrison T. Pajovich, Andrew M. Smith, and Ipsita A. Banerjee, Department of Chemistry, Fordham University, Bronx, NY 10458

12:15 MMP-9 CLEAVABLE NANOPEPTIDES FOR INCREASED TUMOR SITE TARGETING AND IMPROVED DELIVERY OF METALLODRUGS. Lina Alhanshali,[1,2]Jiye Son,[1,2,4]Rein Ulijn[*2-4]and Maria Contel,[*1,4,5]

[1]Department of Chemistry, Brooklyn College, The City University of New York, Brooklyn, NY, 11210, US. [2]Advanced Science Research Center, City University of New York, New York, New York 10027.[3]Department of Chemistry, Hunter College. PhD Programs in Chemistry[4] and Biology[5], The Graduate Center, City University of New York, 365 Fifth Avenue, New York, NY 10016, US

NANO AND SURFACE CHEMISTRY III

Room: Mulcahy 132 **Moderators:** Michael Gleeson/Samantha Wynter

11:00 SYNTHESIS AND CHARACTERIZATION OF A CONDUCTIVE POLYMER HYDROGEL FOR ELECTROCHEMICAL SENSOR APPLICATIONS. Ezer Castillo[1], Veronica Grebe[1], Dr. Justyna Widera-Kalinowska[1], Dr. Barbara Pałys[2] [1]Department of Chemistry, Adelphi University, 1 South Avenue, Garden City, NY 11530 USA [2]Faculty of Chemistry, University of Warsaw, Pasteur Street 1, 02-093 Warsaw, Poland

11:15 FABRICATION OF CORE-SHELL PLATINUM COATED NICKEL NANOWIRES AS ELECTROCHEMICAL CATALYST FOR GLUCOSE SENSORS. Ian Colliard, Alexis Kassotis, and Ricardo M. Valencia, Department of Chemistry, Fordham University, Bronx, NY, 10458

11:30 THE PREASSOCIATION AND ITS EFFECT ON QUENCHING OF THE LUMINESCENCE OF RU (II) DIIMINE COMPLEXES BY AG-NPS CAPPED WITH CITRATE. James Irizarry, Jianwei Fan Department of Chemistry and Biochemistry, Manhattan College, New York, NY 10471

11:45 DESIGNING A PROTON WIRE FROM SHORT SELF ASSEMBLED TRIPEPTIDES. Joseph Cruz, Shejla Pollozi, Donna McGregor, Gustavo Lopez, Benjamin Burton-pye. Department of Chemistry, Lehman College, Bronx, NY, 10468

12:00 CONSTRUCTING NANOSCALE DRUG RELEASE VEHICLES FOR DUAL TARGETING TUMOR CELLS. Jessica R. Dorilio, Nicole M. Cutrone, Sara K. Hurley, Harrison T. Pajovich, Andrew M. Smith, and Ipsita A. Banerjee. Fordham University, Department of Chemistry, 441 East Fordham Road Bronx, NY 10458

12:15 CRYSTALLIZATION OF A SYMMETRIC DNA 8-TURN 3D-DX MOTIF. Robert Tseng, Yoel P. Ohayon, Ruojie Sha, Nadrian C. Seeman Department of Chemistry, New York University, New York, NY 10003

NANO AND SURFACE CHEMISTRY IV

Room: Mulcahy 140 **Moderators:** Gurpreet Singh/Joseph J. Almasri

11:00 METAL OXIDE COATED TRANSITION METAL NANOWIRES WITH TUNABLE OPTICAL PROPERTIES FOR ENHANCED PERFORMANCE OF PHOTOELECTROCHEMICAL CELLS. Josephine A. Jacob-Dolan, Brett T. Musialowicz, Christopher Koenigsmann Department of Chemistry, Fordham University, 441 East Fordham Road, Bronx, NY 10458

11:15 POLYANILINE NANOFIBERS AS A SCAFFOLDING MATERIAL FOR RUTHENIUM NANOPARTICLES. Katherine Kim and David M. Sarno Department of Chemistry, Queensborough Community College of CUNY, Bayside, NY, 11364

11:30 DEVELOPMENT AND CHARACTERIZATION OF CONDUCTIVE POLYMER POLYANILINE FILMS AND HYDROGELS MODIFIED WITH TYROSINASE FOR THE DETECTION OF PHENOLIC COMPOUNDS. Veronica Grebe[1], Ezer Castillo[1], Barbara Pałys[2], and Justyna Widera-Kalinowska[1] [1]Department of Chemistry and Biochemistry, Adelphi University, 1 South Avenue, Garden City, NY 11530 USA [2]Laboratory of Electrochemistry, Faculty of Chemistry, University of Warsaw, Pasteur Street 1, 02-093 Warsaw, Poland

11:45 MICROWAVE IRRADIATION OF RUTHENIUM CHLORIDE IN ANHYDROUS ETHANOL. Leandro Pimentel, Nicholas Carrero and Tirandai Hemraj-Benny. Department of Chemistry, Queensborough Community College, Bayside, NY 11364

12:00 CONGO RED DYE DEGRADATION USING SINGLE-WALLED CARBON NANOTUBE-RUTHENIUM NANOPARTICLES CATALYST. Nicholas Carrero, Rawlric Sumner and Tirandai Hemraj-Benny. Department of Chemistry, Queensborough Community College, Bayside, NY 11364.

12:15 INTERACTIONS OF CONDUCTIVE NANORIBBON BIOCOMPOSITES WITH NEURAL CELLS. Andrew M. Smith, Harrison T. Pajovich and Ipsita A. Banerjee Fordham University, Department of Chemistry, 441 E Fordham Rd, Bronx, NY 10458

ORGANIC CHEMISTRY I

Room: Keating 214 **Moderators:** Roland Correa/Chandini Pillai

11:00 PROBING THE REACTIVITY OF *O*,*O*-ACETALS VS. *N*,*O*-ACETALS: AN UNDERGRADUATE LAB EXPERIMENT COMBINING SYNTHESIS & SPECTROSCOPY AS PART OF A MECHANISTIC INVESTIGATION. Samantha M. Bruno, John H. Bruppacher, Alexa G. McKnight, James A. Ciaccio and Shahrokh Saba Department of Chemistry, Fordham University, Bronx, NY 10458

11:15 SYNTHESIS AND BIOLOGICAL CHARACTERIZATIONS OF PORPHYRIN-GLUCOSIDE CONJUGATES. Avelyn Mae Delos Reyes, David R. Mootoo, Patricia Gonzales, N. V. S. Dinesh K. Bhupathiraju, Michael Drain Department of Chemistry, Hunter College 695 Park Avenue New York, NY 10065

11:30 SYNTHETIC STUDIES ON TUMOR RECOGNIZING CARBOHYDRATE IN THE BLEOMYCIN FAMILY OF CLINICAL AGENTS. Tarandip Singh and David R. Mootoo Department of Chemistry, CUNY-Hunter College, New York City, NY 10065

12:00 SYNTHESIS OF A FLUORINATED ANALOG OF THE IMMUNOSTIMULATORY GLYCOLIPID KRN7000. Khaleel Ali, Ahmad Altiti, Stewart Bachan and David R. Mootoo Department of Chemistry, Hunter College, City University of New York, 695 Park Avenue New York, NY 10065

12:15 COMPUTATIONAL INVESTIGATIONS OF ALDOL REACTIONS OF AROMATIC ENOLATES AND ALDEHYDES. Arghavan Zolfaghari, Shivnath Mazumder, and Nannette M. Wachter. Chemistry Department, Hofstra University, Hempstead NY 11549-0151

ORGANIC CHEMISTRY II

Room: Keating 215 **Moderators:** Farjahan Akhter/Sarah S. Khan

11:00 SYNTHESIS OF BENZIMIDAZOLE DERIVATIVES FOR URIDINE NUCLEOSIDE RIBOHYDROLASE TARGETING. Angelica Leonardo and Melissa VanAlstine-Parris, Department of Chemistry, Adelphi University, Garden City, NY 11530

11:15 EFFECT OF NITROGEN-ATOM SUBSTITUENTS ON RING-FLIP AND GEOMETRIC ISOMERISM IN 1H-1-BENZAZEPINES. Bassem Ahmed, Rosen Jeong, Lukasz Bogdan, Kitae Kwon, Edyta M. Greer, David J. Szalda, and Keith Ramig. Department of Natural Sciences, Baruch College, 17 Lexington Ave, New York, NY 10010

11:30 SYNTHESIS AND CHARACTERIZATION OF NOVEL MOLECULAR CONJUGATES IN THE DEVELOPMENT OF NEW ANTIBACTERIAL AGENTS. Hui Yan Gan, Pooja Saklani, Jia Wei Luo and David P. Brown Department of Chemistry, St. John's University, Queens, New York, 11439

11:45 CATALYST DESIGN FOR MICROWAVE ASSISTED HETEROGENEOUS GAS PHASE OXIDATION OF ALKYL PYRIDINES BY USING OXYGEN FROM AIR AS AN OXIDIZING AGENT. Eltonnelle James, Yevgeniya Alkayeva Ph. D., Alexei Shutilov, Galina Zenkovets. Department of Natural Sciences, Fordham University, New York, NY 10023

12:00 ISOMERIZATION OF IBUPROFEN. Frankie Benavides, Edyta Greer and Mikey Kwon Department of Natural Sciences, Baruch College, New York, NY 10010

12:15 EXPLORING THE TAUTOMERIZATION OF THIOTROPOCIN AND TROPODITHIETIC ACID. Thuong Tran and Edyta M. Greer Department of Natural Sciences, Baruch College, New York, NY 10010

ORGANIC CHEMISTRY III

Room: Keating 218 **Moderators:** Brian El Zokm/Daniel Vreeland

11:00 SYNTHESES OF N-HYDROXYPHENYLTRICHLOROACETAMIDE DERIVATIVES BY MICROWAVE REACTOR: POSSIBLE PRECURSOR TO POLYCARBAMATE. Hyeon Yun, Jun H. Shin, Department of Chemistry, Queensborough Community College, Bayside, NY 11364

11:15 OLIGOCARBAZOLE SINGLE MOLECULE WIRES. Patrick Tuttle[1], Cole Sagan[2], Jiayi Xue[1], Xiaofang Megan Yu[1], Gina Florio[2] and Sujun Wei[1] [1]Department of Chemistry, Queensborough Community College, Bayside, NY 11364; [2]Department of Chemistry & Department of Physics, St. John's University, Queens, NY 11439

11:30 SYNTHESIS OF X-SHAPE MOLECULES AS ELECTRON ACCEPTORS IN ORGANIC SOLAR CELLS. Jiayi Xue, Francisco Caban, Yi (Jane) Jiang and Sujun Wei Department of Chemistry, Queensborough Community College, Bayside, NY, 11364

11:45 A NEW SYNTHESIS OF PYRROLES USING THE CADOGAN APPROACH. Mei Sze Lai,[1] Yanan Liu,[1] Sasan Karimi,[1] Shuai Ma,[2] Gopal Subramaniam[2] [1]Department of Chemistry, Queensborough Community College, Bayside, NY 11364. [2]Department of Chemistry and Biochemistry, Queens College, Flushing, NY 11367

12:00 SELENIUM DIOXIDE OXIDATION OF N-ALKYLATED-1-BENZAZEPINES TO QUINOLINE. Michelle Qu,[1] Sasan Karimi,[1] Shuai Ma,[2] Gopal Subramaniam,[2] (1) Department of Chemistry, Queensborough Community College, Bayside, NY 11364. (2) Department of Chemistry and Biochemistry, Queens College, Flushing, NY 11367

12:15 SYNTHESIS OF A MODEL OF THE BC RING SYSTEM OF OXYGENATED ANGUCYCLINES. Abdullah Allaoa, Tony E. Nicolas. Department of Chemistry, New York City College of Technology, 300 Jay Street, Brooklyn, NY 11201

ORGANIC CHEMISTRY IV

Room: Keating 219 **Moderators:** Ahef Ameer/Ike Ariza

11:00 SYNTHESIS AND ANALYSIS OF NITRIC OXIDE RELEASING FUROXANS Haley Tarbox, Dr. Nanette Wachter and Aweon Richards. Department of Chemistry, Hofstra University, Hempstead, NY 11549

11:15 SYNTHESIS & CHARACTERIZATION OF MIXED SHORT AND MEDIUM CHAIN FATTY ACID TRIACYLGLYCEROLS. Gabrielle Cabrera, William F. Nirode, Ling Huang, Ronald P. D'Amelia,* Department of Chemistry, Hofstra University, Hempstead, NY, 11549

11:30 SYNTHESIS OF 2-SUBSTITUTEDBENZIMIDAZOLE DERIVATIVES FROM 1,2-DIAMINOBENZENE TO TEST FOR THEIR INHIBITORY EFFECT ON THE ENZYME URIDINE NUCLEOSIDE RIBOHYDROLASE. Zaafir Dulloo and Melissa A. Van-Alstine Parris, Department of Chemistry, Adelphi University, Garden City, NY 11530.

11:45 PREVENTING TURBURCULOSIS THROUGH TREATED SURFACES. Eddie Fernandez, and Robert Engel. Department of Chemistry and Biochemistry, Queens College, Queens, NY 11367

PHYSICAL CHEMISTRY I

Room: Keating 317 **Moderators:** Momoka Nagamine/Ismailov Temurjon

11:00 CRYSTAL STRUCTURE DETERMINATION OF ALUMINOSILICATE ZEOLITE, SUZ-9. Christopher Kim and Richard M. Kirchner, Department of Chemistry and Biochemistry, Manhattan College, Bronx, NY 10471

11:15 CONCENTRATION EFFECT OF KCL ON SIZE, SHAPE, AND IONIC PARTITIONING IN AOT REVERSE MICELLES. Gent Prelvukaj, Tyler Cropley, Dr. Arun Sharma Department of Chemistry, Wagner College, Staten Island, NY 10301

11:30 SURFACE RAMAN OF *BIS*-PYRIDYL-ACETYLENE ADSORBED AT SILVER. Jean Marie Gizzo, Dannielle Garceau, Zubair Shabbir and John J. McMahon Department of Chemistry, Fordham University, Bronx, NY 10458

11:45 GALVANOSTATIC MEASUREMENTS OF PHOTOCATALYSIS AT BPA-COVERED SILVER. Nahian Sadique, Zubair Shabbir, and John J. McMahon Department of Chemistry, Fordham University, Bronx, NY 10458

12:00 USING FORCE SPECTROSCOPY TO DETERMINE BINDING STRENGTH. Laura Williams and Joseph Serafin. Department of Chemistry, St John's University, Queens, NY 11439

PHYSICAL CHEMISTRY II/CHEMICAL EDUCATION

Room: Keating 318 **Moderators:** Yveline Lamothe/Maty Sembene

11:00 ZINC SULFIDE SHELL GROWTH ON CADMIUM SELENIDE QUANTUM DOTS. Kevin Dominguez, Megan Webster and Kristi Pepa City College of New York, New York, NY 10031

11:15 DESIGN AND CONSTRUCTION OF A HIGH-MASS ELECTROSPRAY IONIZATION (ESI) QUADRUPOLE MASS SPECTROMETER. Wenjing Zhou, Jendri Morocho, Yan Sun and Jianbo Liu. Department of Chemistry and Biochemistry, Queens College of the City University of New York, 65-30 Kissena Blvd., Queens, NY 11367

11:30 HYDROGEN BONDING NETWORKS IN HIV-1 PROTEASE WITH A BOUND INHIBITOR DRUG – A MOLECULAR DYNAMICS SIMULATION ANALYSIS. Hong Zhang,[1] Dennis Lam[2] and Yolanda A. Small[1,2] Department of Chemistry, [1]York College CUNY, Jamaica, NY 11451, [2]Ph.D. Program in Biochemistry, The Graduate Center of the City University of New York, New York, 10016

11:45 EVALUATION AND IMPROVEMENT OF ONLINE HOMEWORK FOR FOUNDATIONS OF INORGANIC CHEMISTRY. Marissa Strumolo and Sabrina Sobel Department of Chemistry, Hofstra University, Hempstead, NY 11549

12:00 EFFECT OF CHEMICAL DEMONSTRATIONS IN A NON-MAJOR CHEM COURSE. Victoria Pirulli, Arwa El-Rohmeim, Fahema Patwari and

Gopal Subramaniam. Department of Chemistry and Biochemistry, Queens College - CUNY, Queens, NY 11580

POLYMER CHEMISTRY

Room: Keating 312 **Moderators:** Grisel Medrano/ Snove-tia Cape/ Isabella Jean-charles

11:00 POROUS MICROSPHERES OF POLYANILINE AND ITS DERIVATIVES PREPARED FROM W/O/W DOUBLE EMULSIONS. Jean Hwang and David M. Sarno Department of Chemistry, Queensborough Community College of CUNY, Bayside, NY, 11364

11:15 NOVEL LINEAR BLOCK COPOLYMER SYSTEMS PREPARED FROM ε-CAPROLACTONE AND L-LACTIDE THAT REMOVE SOLUBLE ORGANIC POLLUTANTS FROM AQUEOUS ENVIRONMENTS. Katrina T. Bernhardt[1] and Amy M. Balija[1,2] [1]Department of Chemistry, Fordham University, Bronx, NY 10458, [2]Department of Chemistry, Radford University, Radford, VA 24142

11:30 PH-RESPONSIVE DEXTRAN HYDROGELS BY CROSSLINKING WITH AMINO ACID DIAMINES. Madeline Wong[1], Greisly Nunez[1], David Akpatsu[2], Kerwin Clement[2], Mihaela Jitianu[2] and Naphtali O'Connor[1] [1]Department of Chemistry, Lehman College, CUNY, New York 10468 [2]Department of Chemistry, William Paterson University, New Jersey 07470

11:45 PHOTO-CROSSLINKABLE SELF-ASSEMBLING PROTEIN TRIBLOCK POLYMERS FOR HYDROGEL FABRICATION. Nicole L. Schnabel[1], Yao Wang[1], Andrew Olsen[1] and Jin K. Montclare[1,2,3,4], [1]Department of Chemical and Biomolecular Engineering, NYU Tandon School of Engineering, Brooklyn, NY, 11201 [2]Department of Chemistry, New York University, New York, NY, 10003 [3]Department of Biochemistry, SUNY Downstate Medical Center, Brooklyn, NY, 11203 [4]Department of Biomaterials, NYU College of Dentistry, New York, NY 10010