

May 9, 2015



QUEENSBOROUGH
COMMUNITY COLLEGE



**New York's American Chemical Society – Student Activities Committee
63rd Annual Undergraduate Research Symposium
Queensborough Community College
Bayside, NY
Saturday, May 9, 2015**

8:00	Registration and Continental Breakfast	Medical Arts Lobby and Well
9:00	Welcoming Remarks	Medical Arts, M-136
	Dr. Sharon Lall-Ramnarine	Co-Chair, ACS NY Section, Student Activities Committee
	Dr. Diane Call	President, Queensborough Community College
	Dr. Paul Sideris	Co-Chair, ACS NY Section, Student Activities Committee
	Dr. Paris Svoronos	Chair, ACS New York Section
	Dr. Sasan Karimi	Chair of Chemistry, Queensborough Community College
	Dr. Sharon Lall-Ramnarine	Co-Chair, ACS NY Section, Student Activities Committee
9:20	Keynote Address	Medical Arts, M-136
	Dr. JaimeLee Rizzo	Professor, Department of Chemistry, Pace University

Constructing Killer Surfaces

10:20	Dr. Paul Sideris	Instructions for the day
10:30	Group Photo	Stairs between Library & Administration Buildings
11:00	Presented Papers	Medical Arts, Library and Science Buildings
	Analytical Chemistry	
	Biochemistry	
	Chemical Education	
	Environmental/Green Chemistry	
	Inorganic Chemistry	
	Nano and Surface Chemistry	
	Organic Chemistry	
	Physical Chemistry	
	Polymer Chemistry	
12:40	Luncheon / Award Reception	Student Union Lounge
12:50	Pearson	Lauren McLean, Pearson Solutions Specialist
	Adaptive and Interactive Learning	
1:10	McGraw-Hill	Dr. Roy Lacey, Stony Brook University
	ALEKS: Assessment and LEarning in Knowledge Spaces	Jesal Vyas, McGraw-Hill Student Ambassador
1:25	Presentation of Certificates	
	Dr. Yolanda Small	Co-Chair, Student Activities Committee
	Dr. Justyna Widera	Co-Chair, Student Activities Committee
1:45	Ice Cream Social	Student Union Lounge
	Raffle (including a Kaplan Test Prep Package valued at more than \$2K)	

Oral Presentations

- 15 min each
- You must be registered by 9:00am to attend

ANALYTICAL CHEMISTRY I

Room: Medical Arts M-126

Moderator(s): Furqan Mahmood / Kaitlyn Chhe

11:00 DETERMINATION OF THE REFRACTIVE INDEX OF ADIPIC ACID MEASURED BY EXTENSION METHOD. Brian Um, Hyo Jung Shin and Jun H. Shin Department of Chemistry, Queensborough Community College, Bayside, NY 11364

11:15 REFRACTIVE INDEX OF ADIPIC ACID MEASURED BY ZOOM-IN METHOD. Hyo Jung Shin, Brian Um and Jun H. Shin Department of Chemistry, Queensborough Community College, Bayside, NY 11364

11:30 DETERMINATION OF THE AMOUNT OF GALLIC ACID PRESENT IN COMMERCIAL BEVERAGES VIA HIGH PERFORMANCE LIQUID CHROMATOGRAPHY (HPLC). Daysi Proano, Soraya Svoronos, Andrew Xu and Paris Svoronos Chemistry Department, Queensborough Community College, Bayside, NY 11364

11:45 DETERMINING ANTIOXIDANT QUANTITIES PRESENT IN COMMERCIALLY AVAILABLE BEVERAGES VIA THE FOLIN CIOCALTEAU MICROSPECTROPHOTOMETRIC ANALYSIS. Julie Leong, Daysi Proano, Bruce Montalbano, Soraya Svoronos and Paris Svoronos Department of Chemistry, Queensborough Community College, Bayside, New York 11364

12:00 DETERMINATION OF THE IONIZATION CONSTANT OF CARBOXYLIC ACID AT 0°C USING MICROSCALE FREEZING POINT DEPRESSION MEASUREMENTS. Udya Dewanamuni, Pedro Irigoyen and Paris Svoronos Department of Chemistry, Queensborough Community College, Bayside, NY 11364

ANALYTICAL CHEMISTRY II

Room: Medical Arts M-130

Moderator(s): Qing Gao / Yollyce Ayala

11:00 NUCLEATION, GROWTH, AND KINETIC STUDIES OF CADMIUM AND TELLURIUM. Diana Chaykina,¹ Vivian N. Matubia,¹ Magda Osial,¹ Justyna Widera¹ and Krystyna Jackowska² ¹Department of Chemistry, Adelphi University, Garden City, NY 11530 ²Faculty of Chemistry, University of Warsaw, Warsaw, Poland, 02-093

- 11:15 CHIROPTICAL CHARACTERIZATION AND BIOLOGICAL EVALUATION OF ACEPHATE.** Shanelle Shillingford, Melinda Chiu, Kristi Tami and Gloria Proni Department of Sciences, John Jay College, New York, NY 10019
- 11:30 GC-MS ANALYSIS OF DIFFERENT BEE PROPOLIS SAMPLES.** Kevin Symczak and Elmer- Rico E. Mojica Department of Chemistry and Physical Sciences, Pace University, New York, NY 10038
- 11:45 SPECTROPHOTOMETRIC DETERMINATION OF Pb (II) WITH 4-(2-PYRIDYLAZO)-RESORCINOL (PAR) IN THE WATERS OF THE HARLEM RIVER.** Kodjo Agbodji and Francisco Fernandez Department of Physical Sciences Unit, Hostos Community College, Bronx, NY 10451
- 12:00 QUANTIFICATION OF DESMOSINE.** Manjeet Kaur and Emmanuel Chang Department of Chemistry, York College, Queens, NY 11451

ANALYTICAL CHEMISTRY III

Room: Medical Arts M-131

Moderator(s): Mathiu Perez / Samantha Cobos

- 11:00 SURFACE IMMOBILIZATION OF AMPS USING CLICK CHEMISTRY.** Maximillian Baria,¹ Yaoxin Li² and Zhan Chen² ¹Department of Chemistry and Physical Sciences, Pace University, New York, NY 10038
²Department of Chemistry, University of Michigan, Ann Arbor, MI 48109
- 11:15 EXPOSURE TO HEXAVALENT CHROMIUM FROM TANNERY WASTES AND HEALTH RISKS FOR URBAN POPULATION IN BANGLADESH.** Sandra Minchala,¹ Sanjita Dham,² Sarah Alauddin,¹ Nadia Asfar,¹ Sanjit Shaha,³ Whahidul Hoque³ Mohammad Alauddin¹ and Russell Gerads⁴ ¹Department of Chemistry, Wagner College, Staten Island, NY, 10301
²Department of Biology and Life Sciences, Wagner College, Staten Island, NY 10301 ³Exonics Technology Center, Dhaka, 1212, Bangladesh ⁴Applied Speciation LLC, Bothell, WA 98011
- 11:30 ANALYSIS OF E-CIGARETTE FLAVORS WITH GAS CHROMATOGRAPHY.** Thomas Massetti, Kevin Muller and Ling Huang Department of Chemistry, Hofstra University, Hempstead, NY 11550
- 11:45 RAPID IDENTIFICATION OF DESIGNER DRUGS WITH NMR SPECTROSCOPY.** Faith Fowler and Ling Huang Department of Chemistry, Hofstra University, Hempstead, NY 11549

BIOLOGICAL CHEMISTRY I

Room: Library Building LB-06

Moderator(s): Kristina Papacostas / Nataly Jara

- 11:00 DEVELOPMENT OF A DUAL-ACTION COVALENT INHIBITOR OF EGFR & NEK2 KINASE.** Alan Finkelstein, Dan Gloster, Gopal Subramanam, Rajan Giri, Yelissa Sosa and Sanjai Kumar Department of Chemistry and Biochemistry, Queens College-CUNY, Queens, NY 11367
- 11:15 BIOCHEMICAL STUDIES OF THE EFFECTS OF Ph AND OXYGEN LEVELS ON THE GROWTH AND PROTEIN EXPRESSION PATTERNS OF *LACTOBACILLUS RHAMNOSUS GG*.** Courtney Mower, Thomas Candela, Devashri Parikh, Jennifer Trabucco and Seung-Sup Kim Biochemistry Program, Ramapo College of New Jersey, Mahwah, NJ 07430
- 11:30 AMYLOID FORMING SEQUENCES IN TRICHOMONAS VAGINALIS.** Ami Asakawa and Cho Chan Department of Physical and Chemical Sciences, Pace University, New York, NY 10028
- 11:45 IN VITRO INTERACTION OF GLYCOSYLATED PHOTSENSITIZERS WITH PLASMA PROTEINS.** Andrew Wills, and Diana Samaroo Department of Chemistry, CUNY–New York City College of Technology, Brooklyn, NY 11201
- 12:00 CHROMATOGRAPHIC ISOLATION OF BOVINE PREGNANCY METABOLITES IN URINE.** Rachel Lalmansingh, Angelika Rafalowski, Michael De Castro¹ and Nanette M. Wachter Department of Chemistry, Hofstra University, Hempstead, NY 11549 ¹Department of Chemistry, Farmingdale State College, Farmingdale, NY 11735

BIOLOGICAL CHEMISTRY II

Room: Library Building LB-08

Moderator(s): Edwin Cajiao

- 11:00 FOX-4 CEPHAMYCINASE: AN ANALYSIS OF STRUCTURE AND FUNCTION.** Beena Biju, Scott Lefurgy Department of Chemistry, Hofstra University, Hempstead, NY 11549
- 11:15 CHARACTERIZATION OF FLUORINATED PROTEIN BLOCK POLYMERS FOR THERAPEUTIC DELIVERY.** Cynthia Xu, Joseph A. Frezzo and Jin K. Montclare Department of Chemical & Biomolecular Engineering, New York University Polytechnic School of Engineering, Brooklyn, NY 11201

11:30 AMYLOID-PERTURBING DYES INHIBIT ADHESION OF *CRYPTOSPORIDIUM PARVUM* TO THE HUMAN ILEOCECAL ADENOCARCINOMA HCT-8 CELL LINE. Dustin Lee and Cho X. J. Chan Haskins Laboratories, Department of Chemistry and Physical Sciences, Pace University, New York, NY 10038

11:45 CHARACTERIZATION OF A PUTATIVE HALOALKANE DEHALOGENASE FROM *SACCHAROMONOSPOREA AZUREA*. Edward Zhou and Emily Mundroff Department of Chemistry, Hofstra University, Hempstead, NY 11549

12:00 CHARACTERIZATION OF A PUTATIVE HALOALKANE DEHALOGENASE FROM *CAULOBACTER CRESENTUS*. Lauren Carlucci, Edward Zhou and Emily C. Mundorff Department of Chemistry, Hofstra University, Hempstead, NY 06450

BIOLOGICAL CHEMISTRY III

Room: Library Building LB-14 Moderator(s): Shovaine V. Singh / Shriromani Sukhwa

11:00 EXPRESSION, PURIFICATION, AND SOLUTION-STATE NMR STUDY OF THE STRUCTURE AND BINDING LOCATIONS OF RAT INTESTINAL FATTY ACID-BINDING PROTEIN. Faiza Boukerche, Cédric Bernard, May Poh Lai and Ruth E. Stark Department of Chemistry, The City College of New York, New York, NY 10031

11:15 POTENTIOMETRIC MEASUREMENTS OF DNA SEQUENCING, WITH POLYANILINE (DNNSA) COATED DROPSENS ELECTRODES. Faraz Ahmed, Mykhaylo Usyk, and Kalle Levon Department of Chemical and Biomolecular Engineering, New York University - Polytechnic School of Engineering, Brooklyn, NY 11201

11:30 PREPARATION OF METAL COMPLEXES OF METRONIDAZOLE AND THEIR ANTI-PARASITIC ACTIVITY. Ja-Shin Wu,¹ Joshua H. Palmer,² and Rita K. Upmacis¹ ¹The Haskins Laboratories, Department of Chemistry and Physical Sciences, Pace University, New York, NY 10038 ²Department of Chemistry, Columbia University, New York, NY 10027

11:45 INFLUENCE OF FLUORINATION ON PROTEIN ENGINEERED COILED-COIL FIBERS. Kevin Zhang, Haresh T. More, Nikita Srivastava, Joseph Frezzo and Jin Kim Montclare Department of Chemical Biomolecular Engineering, New York University Polytechnic School of Engineering, Brooklyn, NY 11201

12:00 USING FRAGMENT BASED DRUG DISCOVERY TO FIND SMALL MOLECULE INHIBITORS OF THE PCAF BROMODOMAIN. Erica Carrasquillo,¹ Ming-Ming Zhou,² Elena Rusinova,² Jill Rehmman¹ and Moriamou K. Antwi¹ ¹Department of Chemistry, St. Joseph's College, Brooklyn, NY 11205
²The Zhou Laboratory, Icahn Medical Institute Floor 16 at Mount Sinai Hospital, New York, NY

BIOLOGICAL CHEMISTRY IV

Room: Library Building LB-15

Moderator(s): Nadia Deopersaud / Avagaye Wright

11:00 THE STORY OF A UNIQUE BIOPOLYMER: INSIGHTS INTO COMPOSITIONAL DIFFERENCES OF SUBERIN ACROSS DIFFERENT POTATO CULTIVARS USING SOLID STATE ¹³C NMR. Linda Kallash,¹ Keyvan Dastmalchi,¹ Oseloka Chira,² Van C. Phan² and Ruth E. Stark¹ ¹Department of Chemistry, The City College of New York, New York, NY 10031 ²Department of Natural Sciences, CUNY Hostos Community College, Bronx, NY 10451

11:15 MICROWAVE PROTIEN DIGESTION FOR MASS SPECTROMETRIC ANALYSIS. Lois Anti and Emmanuel Chang Department of Chemistry, CUNY York College, NY 11451

11:30 INVESTIGATING PHOSPHORYLATION SITES ON TRNASE Z. Taikchan Lildar, Pratik Rathod and Emmanuel Chang Department of Chemistry, York College, Queens, NY 11451

11:45 DESIGN AND DEVELOPMENT OF pH SENSITIVE APTAMERIC MICELLES. Naralys Batista, Aanchal Tyagi, Osita Jeffrey Enweronye, Hasan Zümürüt, Prabodhika Mallikaratchy Department of Chemistry, City University of New York: Lehman College, Bronx, NY 10468

12:00 DESIGN AND DEVELOPMENT OF BI-SPECIFIC APTAMERS. Osita J. Enweronye, Kaniz Rizwana, Naralys Batista, Aanchal Tyagi, Hasan Zümürüt, Prabodhika Mallikaratchy Department of Chemistry, City University of New York: Lehman College, Bronx, NY 10468

BIOLOGICAL CHEMISTRY V

Room: Library Building LB-16

Moderator(s): Sadigia Barak

11:00 USE OF CHELATING POLYPHENOLS TO RE-DISSOLVE AMYLOID- β AGGREGATES. POTENTIAL IMPLICATIONS IN THE TREATMENT OF ALZHEIMER'S DISEASE. Magdalena Podgorny, Suresh Tewani and Alberto Martinez Department of Chemistry, New York City College of Technology (CUNY), Brooklyn, NY 11201

11:15 NANOPATTERNED SURFACE EFFECT OF PHASE SEPARATED POLYMER NANODOMAINS ON MAMMALIAN PC-12 CELLS. Omar Yassin and Kalle Levon Department of Chemical and Biological Engineering, NYU Polytechnic School of Engineering, Brooklyn, NY 11201

11:30 EXPLORING THE ROLE OF REDOX METALS IN THE NITRIC OXIDE AND H₂O₂ SYNERGISTIC EFFECT TOWARDS E.COLI. Rahab Basher, Wendy Lee, Layla Tashmin, Mohamed O. Nasef and Uri Samuni. Department of Chemistry and Biochemistry, Queens College, City University of New York, Flushing NY.

11:45 EFFECT OF G-QUADRUPLEX DNA CONFORMATION ON THE EFFICIENCY OF PORPHYRIN SINGLET OXYGEN PRODUCTION. Ryan Khemraj, Craig Biegel, Yasemin Kopkalli and Lesley Davenport Department of Chemistry, Brooklyn College of the City University of New York, 2900 Bedford Avenue, Brooklyn, NY 11210

12:00 STUDIES OF A FLUORESCENT ROTOR AS A REPORTER PROBE OF MOLECULAR CROWDING. Yassine Mouaddab, Yasemin Kopkalli and Lesley Davenport. Department of Chemistry, Brooklyn College of CUNY, 2900 Bedford Avenue, Brooklyn, New York 11210

12:15 SUBSTRATE SELECTIVITY OF FOX-4 CEPHAMYCINASE: ROLE OF THE R2 LOOP. William Jordan¹ and Scott Lefurgy² Departments of Biology¹ and Chemistry², Hofstra University, Hempstead, NY 11549

BIOLOGICAL CHEMISTRY VI

Room: Library Building LB-24

Moderator(s): Mukta Mollah / Tenzin Chopak

11:00 PESTICIDE EXPOSURE AND MICROGLIA DYSFUNCTION: IMPLICATIONS OF NEURODEGENERATIVE DISEASES. Farah Gedeon, Kaywan Javdan, Maria Entezari, Mohammad Javdan Department of Biological Sciences and Geology, Queensborough Community College, Bayside, NY 11364

- 11:15 DETERMINING THE GENETIC PATHWAYS INVOLVED IN CELL DEATH OF COPPER TREATED *SACCHAROMYCES CEREVISIAE*.** Haseeb Shah and Nidhi Gadura Department of Biological Sciences and Geology, Queensborough Community College, Bayside, NY 11432
- 11:30 EXAMINING MICRORNA REGULATION OF TISSUE FACTOR IN BREAST CANCER TUMOR PROGRESSION.** Irene Sun and Andrew Van Nguyen Department of Biological Sciences and Geology, Queensborough Community College, Bayside, NY 11364
- 11:45 ANALYSIS OF SPHINGOSINE 1 PHOSPHATE SIGNALING IN BONE FORMATION.** Jean Carlos Arache and Andrew Van Nguyen Department of Biological Sciences and Geology, Queensborough Community College, Bayside, NY 11364
- 12:00 THE NOVEL CURCUMIN-DERIVATIVE CMC 2.24 ALONE OR IN COMBINATION WITH MITOTIC INHIBITORS REDUCES PANCREATIC CANCER GROWTH IN VITRO,** Joselin Vargas¹ and Gerardo G. Mackenzie^{2,3} ¹Queensborough Community College, Bayside, NY 11364 ²Department of Preventive Medicine ³Stony Brook Cancer Center, Stony Brook University, Stony Brook, NY 11794
- 12:15 A NEW MECHANISM FOR CONTROL OF HIV REVERSE TRANSCRIPTASE.** Abbas Nazir, Emmeka Nnaji, Pratik K. Rathod and Emmanuel Chang Department of Chemistry, York College, CUNY, Queens, NY 11451

BIOLOGICAL CHEMISTRY VII

Room: Library Building LB-25

Moderator(s): Jordy Ramirez / Daniela Castro

- 11:00 ANTIBODY-TARGETED AND LIPID-ENCAPSULATED FORMS OF CURCUMIN ATTACK GLIOBLASTOMA CELLS DIRECTLY OR ELIMINATE THEM INDIRECTLY BY STIMULATING THE IMMUNE SYSTEM.** Juliet Baidoo, Sumit Mukherjee, Peter Halat, Joseph Inigo, and Dr. Banerjee. Department of Chemistry, CUNY- College of Staten Island, Staten Island, NY 10314
- 11:15 EVALUATION OF A NOVEL NUCLEAR INTRON WITHIN THE DEEP-SEA BLACK CORAL *STAUROPATHES ARCTICA* (CNIDARIA: ANTHOZOA: HEXACORALLIA: ANTIPATHARIA).** Lysna Paul, Robert Marino, Mercer R. Brugler, New York City College of Technology (CUNY), Brooklyn, NY 11201

11:30 INTERSPECIES INTERACTIONS AMONG STREPTOMYCES STRAINS. Paula Delos-Reyes, Kimberly Deleon, Kanchanpreet Kaur, Chung Tse, and Dr. Mangala Tawde Department of Biological Sciences and Geology, Queensborough Community College, CUNY, Bayside, NY 11364

11:45 UNCOVERING THE GENES INVOLVED IN COPPER INDUCED CELL DEATH PATHWAY BY SCREENING *SACCHAROMYCES CEREVISIAE* GENOMIC LIBRARY. Bharti Kumari and Nidhi Gadura Department of Biological Sciences and Geology, Queensborough Community College, Bayside, NY 11364

BIOLOGICAL CHEMISTRY VIII

Room: Library Building LB-26

Moderator(s): Brenda Torres / Belkis Rodriguez

11:00 SCREENING A *SACCHAROMYCES CEREVISIAE* GENOMIC LIBRARY TO DETERMINE COPPER INDUCED CELL DEATH PATHWAYS. Ricky Shao and Nidhi Gadura Department of Biology, Queensborough Community College, Bayside, NY 11364

11:15 THE INHIBITION OF CANCER CELLS BY PLANT EXTRACTS. Victoria Antonetti, Stephen Redenti and Linda Einbond Lehman College, Bronx, New York, 10468

11:30 EVALUATION OF THE EFFECTS OF Ca^{+2} ON Cd^{+2} TOXICITY AND PHYTOREMEDIATION BY A301 RICE *ORYZA SATIVA CULTIVAR*. Welbeck Sowah and Charles Maliti Department of Biology and Medical Lab Technology, CUNY Bronx Community College, Bronx, NY 10453

11:45 FINDING EVOLUTIONARY RELATIONSHIPS BETWEEN NYC ROACHES THROUGH DNA BARCODING. Oscar J. Zagalo, Ted Pierre Louis and Nidhi Gadura Department of Biological Sciences and Geology, Queensborough Community College, CUNY NY 11364

12:00 TRACING ANCESTRY WITH MITOCHONDRIAL DNA. Mercedes Polanco, and Sara Danzi Engoron, Department of Biological Sciences and Geology, Queensborough Community College, Bayside, NY, 11364

GREEN CHEMISTRY I

Room: Medical Arts M-133

Moderator: Damian Ewko

- 11:00 ENVIRONMENTAL QUALITY ANALYSIS OF SOIL, WATER, AND AIR IN BROOKLYN.** Bilqeas Abdul, and Christopher Blaszcak-Boxe, Department of Physical, Environmental and Computer Sciences, Medgar Evers College, Brooklyn, NY 11225
- 11:15 FORMULATION OF A NOVEL “GREEN” NAIL POLISH REMOVER.** Joanna Tycner and Justyna Widera Department of Chemistry, Adelphi University, Garden City, NY 11530
- 11:30 INITIATION OF A GREENHOUSE GAS MONITORING PROGRAM IN NEW YORK CITY.** Augustine Amissah, Dickens St. Hilaire, PhD¹, Soosairaj Therese, Ph.D.¹ Neal Phillip, Ph.D.^{1,2} Alejandro Prieto¹, Anthony Durante, Ph.D.¹ Department of Chemistry, Bronx Community College, West 181 St. & University Ave. Bronx, NY 10453
- 11:45 A CHEMICAL ANALYSIS OF THE CITIZEN WATER QUALITY TESTING PROJECT SAMPLES.** Isabel Riano¹ and Holly Porter-Morgan²
¹Department of Environmental Science, Queens College, Flushing, NY 11367.
²Department of Environmental Science, LaGuardia Community College, Long Island City, NY 11101
- 12:00 DEGRADATION OF TRICHLOROETHYLENE IN WATER BY WAY OF ULTRAVIOLET RADIATION.** Nia H Rene and D.C. Robie Department of Chemistry, CUNY York College, Jamaica Queens, NY 11451

GREEN CHEMISTRY II/ CHEMICAL EDUCATION

Room: Medical Arts M-134

Moderator: Hassan S. Jaafar

- 11:00 CALCIUM OXIDE DERIVED FROM WASTE SHELLS FOR BIO - DIESEL PRODUCTION.** Amanda Fernandes and Yelda Balkir Department of Chemistry, Manhattan College, Riverdale, NY 10471
- 11:15 TRASH TO TREASURE: COFFEE WASTE TO BIODIESEL.** Annie Chen and Yelda Hangun-Balkir Department of Chemistry, Manhattan College, Bronx, New York 10471
- 11:30 ALKALINE EARTH METAL OXIDES AS CATALYSTS IN BIODIESEL PRODUCTION** Marybeth Dooley and Yelda-Hangun-Balkir Department of Chemistry and Biochemistry, Manhattan College, Riverdale, New York 10471

11:45 WHAT ARE THEY WRITING? Hayley Crabtree, Joe Glowacki and Kishore K. Bagga Department of Graduate School of Biological Sciences and Professional Studies, Drexel University, Philadelphia, PA 19102

12:00 QUANTITATIVE DETERMINATION OF SILVER INHIBITION OF HALIDE ACCELERATED ALUMINUM CORROSION. Harleen Gill, Kevin Lopez, and Sabrina G. Sobel Department of Chemistry, Hofstra University, Hempstead, NY 11549

GREEN CHEMISTRY III

Room: Medical Arts M-146

Moderator: Nicole Zmich

11:00 SYNTHESIS OF IMIDAZOLIUM IONIC LIQUIDS. Rahonel Fernandez, Nicole Zmich, Emely Rosario and Dr. Sharon Lall-Ramnarine Department of Chemistry, Queensborough Community College, Bayside, NY, 11364

11:15 SYNTHESIS OF PYRROLIDINIUM LIQUIDS. Chanele Rodriguez,¹ Sharon Lall-Ramnarine,¹ Nicole Zmich,² and Emely Rosario¹ ¹Department of Chemistry, Queensborough Community College of CUNY, Bayside, NY 11364. ²Chemistry Department, Brookhaven National Laboratory, Upton, NY 11973

11:30 THE EFFECT OF DICATIONS ON THE PROPERTIES OF BINARY MIXTURES OF IONIC LIQUIDS. Emely Rosario,¹ Damian Ewko,¹ Andrew Gracia,¹ David Cuffari,² Meriam Sahin,² Yara Adam,² and Sophia Suarez,² Nicole Zmich,³ James Wishart³ and Sharon Lall-Ramnarine ¹Department of Chemistry, Queensborough Community College of CUNY, Bayside, NY 11364 ²Department of Physics, Brooklyn College, Brooklyn, NY 11210 ³Department of Chemistry, Brookhaven National Laboratory, Upton, NY 11973

11:45 DESIGNING ASYMMETRICAL DICATIONIC IONIC LIQUIDS. Eddie Fernandez, Nicole Zmich, Dr. Sujun Wei and Dr. Sharon Lall-Ramnarine Department of Chemistry, Queensborough Community College, Bayside, NY 11364

12:00 SYNTHESIS OF IMIDAZOLIUM-BASED IONIC LIQUIDS FOR IONOTHERMAL REACTIONS. Yueli Chen, Eddie Fernandez, Sharon Lall-Ramnarine and Paul Sideris Department of Chemistry, CUNY Queensborough Community College, Bayside, NY 11364

INORGANIC CHEMISTRY

Room: Medical Arts M-143

Moderator(s): George Finney III

- 11:00 THERMAL STABILITY AND RHEOLOGICAL BEHAVIOR OF THE MELTING GELS.** Gabriela Rodriguez,¹ Mihaela Jitianu,² Monika Baraniak,² Lisa C. Klein³ and Andrei Jitianu¹ ¹Department Of Chemistry, Lehman College – City University of New York, Bronx, NY 10468 ²Department of Chemistry, William Paterson University, Wayne, NJ, 07470 ³Department of Materials Science and Engineering, Rutgers University, Piscataway, NJ, 08854
- 11:15 STUDY OF ACTIVATED CARBON – HYDROXYAPATITE COMPOSITE MATERIALS.** Ebenezer Ewul,¹ Emmanuel Calderon,² Mihalela Jitianu² and Andrei Jitianu¹ ¹Department of Chemistry, Lehman College City University of New York, Bronx, NY 10468 ²Department of Chemistry, William Paterson University, Wayne, New Jersey 07470
- 11:30 INVESTIGATION INTO ZINC(II) ION COORDINATION WITH TETRACYCLINE VIA FOURIER TRANSFORM INFRARED SPECTROSCOPY.** Botai Xuan, Alex Gilbert, Harshul Khanna, Evan Flores and Sabrina Sobel Department of Chemistry, Hofstra University, Hempstead, NY 11549
- 11:45 SYNTHESIS OF TWO NEW LIGAND SCAFFOLDS FOR BIMETALLIC CATALYTIC HYDROFORMYLATION.** Megan Schoenberger, Evijola Llabani and Richard J. Rosso Department of Chemistry, St. John's University, Queens, NY 11439
- 12:00 CHARACTERIZATION OF TRANSITION METAL BOUND 1, 4, 7-TRITHIACYCLONONANE.** Nahid Bakhtari, Mordhakhay Kholdarov, Dmitry Medvedev, Daniel Kirsch and Chandrika P. Kulatilleke Department of Natural Sciences, Baruch College – The City University of New York, 17 Lexington Avenue, New York, NY 10010
- 12:15 NEW HETEROMETALLIC TITANOCENE-GOLD DERIVATIVES CONTAINING CARBENE LIGANDS. INTERACTIONS WITH PLASMID (PBR322) DNA.** Thierno Barry, Vincent Mui, Jacob Fernández-Gallardo and María Contel Chemistry Department, Brooklyn College, The City University of New York, Brooklyn, NY 11210

NANO AND SURFACE CHEMISTRY I

Room: Medical Arts MC-28

Moderator(s): Zhou Zhou / Donald Wunder

- 11:00 EXPLORING THE SYNTHESIS OF SOL-GEL BASED HYBRID NANOPARTICLES.** Abbas Soloki, Suiying Huang and Uri Samuni
Department of Chemistry and Biochemistry, Queens College, City University of New York, Flushing, NY 11367
- 11:15 POLYMER-PEPTIDE BOUND GOLD NANOPARTICLES FOR TARGETED DRUG DELIVERY.** Alexandra M. Brown, Yoliem S. Miranda-Alarcon and Ipsita A. Banerjee
Department of Chemistry, Fordham University, Bronx, NY 10458
- 11:30 NONCOVALENT BONDING OF FIBRINOGEN IN MONOMOLECULAR POLYMER FILMS.** Andrew T. Zienowicz, John D. Quirolgico and Robert Mentore
School of Theoretical and Applied Science, Ramapo College of New Jersey, Mahwah, NJ 07430
- 11:45 THE FORMATION OF 1D CATALYSIS FOR TRANSESTERIFICATION OF BIODIESEL.** Anet Kashoa, Alexander Santulli, Department of Chemistry, Manhattan College, Bronx, NY 10463
- 12:00 COMPUTER AIDED DESIGN OF NOVEL TISSUE SCAFFOLDS - TUNING DIMENSIONS FOR SPECIFIC ORGANS.** Anthony Santora-Bermudez, Grant A. Knoll, Yoliem S. Miranda Alarcon and Ipsita A. Banerjee
Department of Chemistry, Fordham University, Bronx, NY 10458

NANO AND SURFACE CHEMISTRY II

Room: Medical Arts MC-29

Moderator(s): Sergio Baloco / Ezer Castillo

- 11:00 SYNTHESIS AND OPTICAL PROPERTIES OF CdSe NANOCRYSTALS.** Bagnikim Yakadjene,^{1,2} and Mohammad Sohel²
¹Department of Chemistry, City College New York, New York, 10031 ²
Natural Sciences Department, Hostos Community College, Bronx, NY 100451
- 11:15 STUDIES ON THE INTERACTIONS OF FOUR METAL OXIDE NANOMATERIALS WITH PROTEINS AND ENZYMES USING SPECTROSCOPIC TECHNIQUES.** Eric Nguyen, Paris Hanson, Tabitha Batte and Elmer-Rico E. Mojica
Department of Chemistry, Pace University, New York, NY 10038

- 11:30 MEASURING THE NANOMECHANICAL PROPERTIES OF TOMATO CUTICLES USING ATOMIC FORCE MICROSCOPY.** Eseosa Aiwerioghene, Keyvan Dastmalchi, and Ruth E. Stark Department of Chemistry, The City College of New York, New York, NY 10031
- 11:45 PREPARATION OF BIOMIMETIC SCAFFOLDS FOR CORNEAL TISSUE REGENERATION.** Grant A. Knoll, Anthony Santora-Bermudez and Ipsita A. Banerjee Department of Chemistry, Fordham University, Bronx, NY 10458
- 12:00 G-TETRAADS WITHIN THE CONTEXT OF A SELF-ASSEMBLED 3D DNA STRUCTURE.** Hatem Abdallah, Arun Richard Chandrasekaran, Yoel Ohayon, Carina Hernandez, Jens J. Birktoft, Ruojie Sha and Nadrian Seeman Department of Chemistry, New York University, New York, NY 10002

NANO AND SURFACE CHEMISTRY III

Room: Medical Arts MC-30

Moderator(s): Daniella Rafaelov / Chandini Pillai

- 11:00 THE ROLE OF MONOMER CONCENTRATION IN THE FORMATION OF POROUS POLY(*O*-TOLUIDINE) MICROSPHERES.** Jean Hwang and David M. Sarno Department of Chemistry, Queensborough Community College, Bayside, NY 11364
- 11:15 GELS OF TRIS- [3-(TRIMETHOXYSIYL)PROPYL] ISOCYANURATE (TTPI) AND POLYMETHYLHYDROSILOXANE (PMHS).** Jeff Massena and Moni Chauhan Department of Chemistry, Queensborough Community College, Bayside, NY 11364
- 11:30 DESIGN OF 4-TURN TENSEGRITY TRIANGLES WITH PX EDGES.** Jessica Somberg, Arun Richard Chandrasekaran, Yoel Ohayon, Ruojie Sha and Nadrian C. Seeman Department of Chemistry, New York University, New York, NY 10003
- 11:45 LIPOSOME/HYDROGEL MIXING: APPROACH TO THE FORMATION OF HYDROGEL/LIPID BILAYER STRUCTURES.** Larisa Posada and Sergey Kazakov Department of Chemistry and Physical Sciences, Pace University, Pleasantville, NY 10570
- 12:00 SELF-ASSEMBLY OF 3D DNA CRYSTALS WITH 3 TRIANGLE SUB-UNITS.** Michael Alexander Jong,¹ Yoel P. Ohayon,¹ Arun R. Chandrasekaran,¹ Carina Hernandez,¹ Jens Birktoft,¹ Ruojie Sha,¹ Steve Ginell,² Chengde Mao³ and Nadrian C. Seeman¹ ¹Department of Chemistry, New York University, New York, NY 10003 ²Structural Biology Center, Argonne National Laboratory, Argonne, IL 60439 ³Department of Chemistry, Purdue University, West Lafayette, IN 47907

NANO AND SURFACE CHEMISTRY IV

Room: Medical Arts MC-31

Moderator(s): Brigitte Rugel / Sydney Snaider

11:00 USE OF PROTEINS IN METAL-TEMPLATING. Michael Yang,¹ Jasmin Hume,¹ Raymond Chen,¹ Rudy Jacquet,² and Jin Kim Montclare^{1,3,4}
Department of Chemical and Biomolecular Engineering, New York University,
6 Metrotech Center, New York, NY 11201 ¹Department of Chemical and
Biomolecular Engineering, NYU Polytechnic School of Engineering,
Brooklyn, NY 11201 ²College of Physicians and Surgeons, Columbia
University, New York, NY 10032 ³Department of Biochemistry, SUNY
Downstate Medical Center, Brooklyn, NY 11203 ⁴Department of Chemistry,
New York University, New York, NY 10003

11:15 MICROWAVE SYNTHESIS OF SINGLE-WALLED CARBON NANOTUBE-RUTHENIUM NANOPARTICLES COMPOSITES IN ETHANOL. Nelson F. Tobar and Tirandai Hemraj-Benny Department of Chemistry, Queensborough Community College, Bayside, NY 11364

11:30 SYNTHESIS AND CHARACTERIZATION OF HAFNIUM (IV) OXIDE COATED SINGLE-WALLED CARBON NANOTUBE. SaiYan Qu and Tirandai Hemraj-Benny Department of Chemistry, Queensborough Community College, Bayside, NY 11364

11:45 PREPARATION OF GRAPHENE OXIDE CONJUGATED NANOFLAKES AND THEIR PHYSICO-CHEMICAL PROPERTIES. Patrick T. Barrett, Steven M. Romanelli and Ipsita A. Banerjee Department of Chemistry, Fordham University, Bronx, NY 10458

12:00 BIOMIMETIC MEMBRANE FORMATION: THE CREATION OF ASYMMETRIC DROPLET INTERFACE BILAYERS. Peter Milianta, Michelle Muzzio, Jacqui Denver and Sunhee Lee Department of Chemistry, Iona College, New Rochelle, NY 10801

12:15 DEVELOPMENT OF BIOORGANIC NANOSCALE COMPOSITES AND THEIR INTERACTIONS WITH DERMAL FIBROBLASTS AND KERATINOCYTES. Yolien S. Miranda-Alarcón, Alexandra M. Brown, Anthony Santora-Bermudez and Ipsita A. Banerjee Department of Chemistry, Fordham University, Bronx, NY 10458

NANO AND SURFACE CHEMISTRY V

Room: Medical Arts MC-32 **Moderator(s):** Vishwanauth Deeyal / Alexis Javornik

11:00 NANOSCALE SILICA COATED PHYTOASSEMBLIES FOR DRUG ENCAPSULATION AND RELEASE. Rachel M. Sortino, Steven M. Romanelli, Grant A. Knoll and Ipsita A. Banerjee Department of Chemistry, Fordham University, Bronx, NY 10458

11:15 MULTISTEP SYNTHESIS OF ANISOTROPIC SILVER NANOPARTICLES. Rahel Steffen and Moni Chauhan Department of Chemistry, Queensborough Community College, Bayside, NY 11364

11:30 INVESTIGATION OF THE SURFACE ENERGIES OF CARBON NANOSTRUCTURE FILLED POLYPROPYLENE COMPOSITES. Raul Rivas,¹ Charles Seaks,¹ Vicki Flaris,¹ Titus Gaertner,² and Petra Poetschke²
¹Department of Chemistry, Bronx Community College, Bronx, NY 10453
²Leibniz-Institut für Polymerforschung Dresden e.V. (IPF) Hohe Straße 6, 01069 Dresden, Germany

11:45 ELECTRONIC ENTROPY CHANGES AT A FIRST ORDER CURIE TRANSITION. Neno Fuller¹ Zsolt Gercsi,^{2,3} Asaya Fujita⁴ and Karl G. Sandeman^{1,2} ¹Department of Physics, Brooklyn College of The City University of New York, Brooklyn, NY, 11210 ²Department of Physics, Imperial College London, London SW7 2AZ, United Kingdom ³CRANN and School of Physics, Trinity College Dublin, Dublin 2, Ireland ⁴National Institute of Advanced Industrial Science and Technology, Nagoya 463-8560, Japan

12:00 MOLECULAR ELECTRONICS: POLYANILINE NANOWIRES IN A 3D DNA SCAFFOLD. Rebecca Zhuo,¹ Hatem O. Abdallah,¹ Arun Richard Chandrasekaran,¹ Yoel P. Ohayon,¹ Carina Hernandez,¹ Martin Kristiansen,¹ Xiao Wang,¹ Ruojie Sha,¹ Chengde Mao,² Steve Ginell,³ James W. Canary¹ and Nadrian C. Seeman¹ ¹Department of Chemistry, New York University, New York, NY 10003 ²Department of Chemistry, Purdue University, West Lafayette, IN 47907 ³Structural Biology Center, Argonne National Laboratory, Argonne, IL 60439

12:15 UNDERSTANDING THE EFFECTS OF CARBON NANOTUBES ON THE OXIDATIVE STRESS OF CANCER CELLS. Yizhu Jin,¹ Tirandai Hemraj-Benny² and Regina Sullivan¹ ¹Department of Biological Sciences and Geology, Queensborough Community College, Bayside, NY 11364
²Department of Chemistry, Queensborough Community College, Bayside, NY 11364

NANO AND SURFACE CHEMISTRY VI

Room: Medical Arts MC-33

Moderator(s): Eric Campoverde / Ashley Kuptsow

11:00 DESIGN AND SYNTHESIS OF SELF-ASSEMBLED NANOSCALE PURINE AND PYRIMIDINE DERIVATIVES AND THEIR BINDING INTERACTIONS WITH DNA. Sarah A. Lundell, Alexandra M. Brown and Ipsita A. Banerjee Department of Chemistry, Fordham University, Bronx, NY, 10458

11:15 PARTIAL SULFONATION OF POLYANILINE NANOFIBERS. Silvia Salamone and David M. Sarno Department of Chemistry, Queensborough Community College, Bayside, NY 11364

11:30 QUENCHING OF $[\text{Ru}(\text{BPY})_3]^{2+}$ EMISSION BY BINDING TO AG NANOPARTICLES. Sisi Hu, Matthew Feliciano, Alexander Santulli and Jianwei Fan Department of Chemistry and Biochemistry, Manhattan College, Bronx, NY 10471

11:45 FORMATION OF TISSUE SCAFFOLDS FOR PROMOTION OF ANGIOGENESIS. Steven M. Romanelli, Anthony Santora-Bermudez, Grant A. Knoll and Ipsita A. Banerjee Department of Chemistry, Fordham University, Bronx, NY 10458

12:00 ELECTRODEPOSITION OF CADMIUM TELLURIDE THIN FILMS. Vivian Matubia,¹ Diana Chaykina,¹ Magdalena Osial,² Justyna Widera¹ and Krystyna Jackowska² ¹Department of Chemistry, Adelphi University, Garden City, NY 11530 ²Faculty of Chemistry, University of Warsaw, Pasteur Str. 1, 02-093 Warsaw, Poland

12:15 PRODUCING ZINC SELENIDE NANOPARTICLES USING VIBRATORY MILLING. Tahmida Yasmin and Glen R. Kowach Department of Chemistry and Biochemistry, City College of New York, New York, NY 10031

ORGANIC CHEMISTRY I

Room: Science S-111

Moderator(s): Jahfari Cunningham / Anne Aurore Barrella

11:00 SYNTHESIS AND CHARACTERIZATION OF DI-SUBSTITUTED PYRAZOLINE MONOMERS AND DENDRIMERS. Cara McDavitt and Amy Baliya Department of Chemistry, Fordham University, Bronx, NY 10458

- 11:15 SYNTHESIS AND EVALUATION OF PYRAZOLINE BASED DENDRIMERS AS POTENTIAL REMOVAL AGENTS OF SMALL ORGANIC POLLUTANTS FROM AQUEOUS ENVIRONMENTS.** Daniel Brauer and Amy M. Balija Department of Chemistry, Fordham University, Bronx, NY 10458
- 11:30 TARGETING TUMORS: SYNTHESIS OF THF-AGE 4-DEOXYANNORETICUIN PRODRUG WITH A CARBAMOYLATED MANNOSE VECTOR.** Amanda Ramdular, Patricia Gonzalez, Stewart Bachan, PhD and Professor David Mootoo Department of Chemistry and Biochemistry, CUNY Hunter College, New York, NY 10065
- 11:45 NEW POLYMER-BASED RECYCLABLE CATALYST FOR THE BENZOIN CONDENSATION REACTION.** Shabaz Ali and John Regan, Department of Chemistry and Biochemistry, Manhattan College, Riverdale, New York 10471
- 12:00 REMEDIATION OF WATER CONTAINING CHROMIUM (VI) WITH INSOLUBLE VITAMIN C DERIVATIVES.** Paulo Markaj and John Regan, Department of Chemistry and Biochemistry, Manhattan College, Riverdale, New York 10471
- 12:15 A PRACTICAL SYNTHESIS OF VARIOUS 2-DEOXY-N-GLYCOSIDES USING D-GLUCAL.** Polina Bykovskaya, Terence J. Meyerhoefer, Sonia Kershaw, Nadia Caliendo, Sumeia Eltayeb, Emi Hanawa-Romero, Victor Huang, Cecilia H. Marzabadi and Michael De Castro, Department of Chemistry, Farmingdale State University, Farmingdale, NY 11710

ORGANIC CHEMISTRY II

Room: Science S-112

Moderator(s): WeiJing Gu / Sophia King

- 11:00 INTRODUCTION OF METAL FRAGMENTS AT VARIOUS POSITIONS OF 1,3-BUTADIENE AND ETHYLENE IN THE DIELS-ALDER CYCLIZATION.** Elena Votto and Edyta Greer Department of Natural Sciences, Baruch College, New York, NY 10010
- 11:15 THEORETICAL STUDIES OF THE GARRAT-BRAVERMAN CYCLIZATION INVOLVING THE EFFECTS OF ISOSTERIC SUBSTITUTIONS.** Jade L. Marino Creto, Mikey Kwon and Edyta Greer Department of Natural Sciences, Baruch College, New York, NY 10010
- 11:30 SYNTHESIS AND SELF-ASSEMBLY OF SUGAR-ALCOHOL AMPHIPHILES TO FUNCTIONAL SOFT MATERIALS.** Sahista Kapadia, Julian Silverman and George John, Department of Chemistry, The City College of CUNY, New York, NY 10031

- 11:45 LAWSONE'S DERIVATIVES FOR FINGERPRINT DETECTION.** Natalia Fernandez, Amanda Vasquez, Alicia Ocana and Gloria Proni Department of Sciences, John Jay College, New York, NY 10019
- 12:00 ZINC(II) COMPLEXES BASED ON MULTIDENTATE SCHIFF BASE LIGANDS FOR CATALYSIS AND FLUORESCENCE SENSORS.** Nyeisha Brathwaite and Guoqi Zhang Department of Sciences, John Jay College of Criminal Justice, The City University of New York, NY 10019
- 12:15 APPLICATION OF MICROWAVE IRRADIATION IN THE SYNTHESIS OF NATURAL PRODUCT HYBRIDS AS NEW CHEMICAL ENTITIES IN DRUG DISCOVERY AND DEVELOPMENT.** Wisdom Onwuchekwabanogu, Thomas Wong and David P. Brown Department of Chemistry, St. John's University, Queens, NY 11439

ORGANIC CHEMISTRY III

Room: Medical Arts M-140

Moderator(s): Gerry Alvarado / Kenya Velez

- 11:00 SYNTHESIS AND PHYSICAL CHARACTERIZATION OF NATURALLY DERIVED SURFACES BEARING ANTIMICROBIAL ACTIVITY.** Angelique Dabel and JaimeLee Rizzo Department of Chemistry and Physical Sciences, Pace University, New York, NY 10038
- 11:15 A PRACTICAL SYNTHESIS OF 4(4'-HYDOXYPHENYL)-2-BUTANONE (RASPBERRY KETONE).** Lai King Jessica Mo Ng and James V. McCullagh Department of Chemistry and Biochemistry, Manhattan College, Riverdale, NY 10471
- 11:30 CRYSTALLIZATION OF LYSOZYME IN THE PRESENCE OF SMALL ELECTRIC CURRENTS.** Eveneze Tekie,¹ Moriamou K. ¹Department of Chemistry, St. Joseph's College, Brooklyn, NY 11205
- 11:45 THE EFFECT OF LIGHT AND DYE COMPOSITION ON THE COLOR OF DYEINGS WITH INDIGO, 6-BROMOINDIGO, AND 6,6'-DIBROMOINDIGO, COMPONENTS OF TYRIAN PURPLE.** Aygul Islamova,¹ John Scalise,¹ Derrick Claye,¹ Ioannis Karapanagiotis,² Christopher Cooksey,³ Sasan Karimi⁴ and Keith Ramig¹ ¹Department of Natural Sciences, Box A0506, Baruch College of the City University of New York, New York, NY, 10010. ²University Ecclesiastical Academy of Thessaloniki, Thessaloniki 54250, Greece. ³59 Swiss Avenue, Watford, Hertfordshire, WD18 7LL, England. ⁴Department of Chemistry, Queensborough Community, Bayside, NY 11364

12:00 SYNTHESIS AND PHOTO-REACTION OF 1ST GENERATION DENDRIMER: POTENTIAL DRUG DELIVERY DEVICE. Nia H Rene and Dr. Jong I. Lee Department of Chemistry, CUNY York College, Jamaica, NY 11439

12:15 TOPOCHEMICAL POLYMERIZATION AND MOPHOLOGICAL CONTROL OF CRYSTALS OF POLY(DIIODODIACETYLENE). Matthew Hannigan, Xiuzhu Ang, and Nancy S. Goroff, Department of Chemistry, Stony Brook University, Stony Brook, NY 11794

ORGANIC CHEMISTRY IV

Room: Medical Arts M-142

Moderator(s): Claudia Duran / Nnonyem Sappleton

11:00 SYNTHESIS OF 3,4-BIS(2'-ACETYLbenzoYL)-OXADIAZOLE-N-OXIDE. Sahil Aggarwal, and Nanette Wachter Department of Chemistry, Hofstra University, Hempstead, NY 11550

11:15 SYNTHESIS & CHARACTERIZATION OF TRI & TETRA SUBSTITUTED PORPHYRINS FOR THEIR PHOTOCHEMICAL APPLICATIONS. Valerie Khayyo, Shadi Khayyo, Dorina Ismailgeci, Dr. Pamela Kerrigan and Dr. Daniel Amarante Department of Chemistry, College of Mount Saint Vincent, Bronx, NY, 10471

11:30 OXIDATION OF METHYLATED 3H-1-BENZAZEPINES. Eun Jung Shin, Yelissa Sosa, Gopal Subramaniam, Sanjai Kumar, Department of Chemistry and Biochemistry, Queens College, Flushing, NY 11367

11:45 OXIDATION OF 3H-1-BENZAZEPINE TO QUINOLINE. Shuai Ma,¹ Sasan Karimi,¹ Gopal Subramaniam² ¹Department of Chemistry, Queensborough Community College, Bayside, NY 11364 ²Department of Chemistry and Biochemistry, Queens College, Flushing, NY 11367

12:00 OLIGOFLUORENE SINGLE MOLECULE WIRES. Yi (Jane) Jiang,¹ Jordan Snaider,² Francisco Caban,¹ Kyle Bremer,² Gina Florio² and Sujun Wei¹ ¹Department of Chemistry, Queensborough Community College, Bayside, NY 11364 ²Department of Chemistry & Department of Physics, St. John's University, Queens, NY 11439

12:15 SYNTHESIS OF X-SHAPE MOLECULES AS ELECTRON ACCEPTORS IN ORGANIC SOLAR CELLS. Francisco Caban, Yi (Jane) Jiang and Sujun Wei Department of Chemistry, Queensborough Community College, Bayside, NY 11364

PHYSICAL CHEMISTRY

Room: Medical Arts MC-21

Moderator(s): Lorena Ulloa / Kelsey Nicklaus

11:00 BROKEN SYMMETRY AND RELATIVE PROTON ACIDITIES WITHIN A BICYCLIC THIOACETAL. Brice Lee and Robert Q. Topper
Department of Chemistry, The Cooper Union, New York, NY 10010

11:15 CHARACTERIZATION OF CHEMICAL MONOLAYER COMPOSITION AND STABILITY FOR IMPROVED CHEMICAL FORCE MICROSCOPY MEASUREMENTS. Laura Williams, Ashley Joseph, Kanwardeep Sing and Joseph Serafin Department of Chemistry, St. John's University, Jamaica, NY, 11439

11:30 MASS TRANSPORT PROPERTIES OF EMIM FSI USING HIGH PRESSURE NMR SPECTROSCOPY. Mahmoud Hamsho,¹ Sophia Suarez,¹ David Cuffari,¹ Kartik Pilar,² ¹Department of Physics, Brooklyn College, Brooklyn, NY 11210 ²Department of Physics and Astronomy, Hunter College, New York, NY 10065

11:45 MICROGELS WITH NEGATIVE VOLUME PHASE TRANSITION FOR THE LIPOBEAD-ENCAPSULATED DRUG DELIVERY SYSTEM. Megan Lucchese and Sergey Kazakov Department of Chemistry and Physical Sciences, Pace University, Pleasantville, NY 10570

POLYMER CHEMISTRY

Room: Medical Arts MC-41

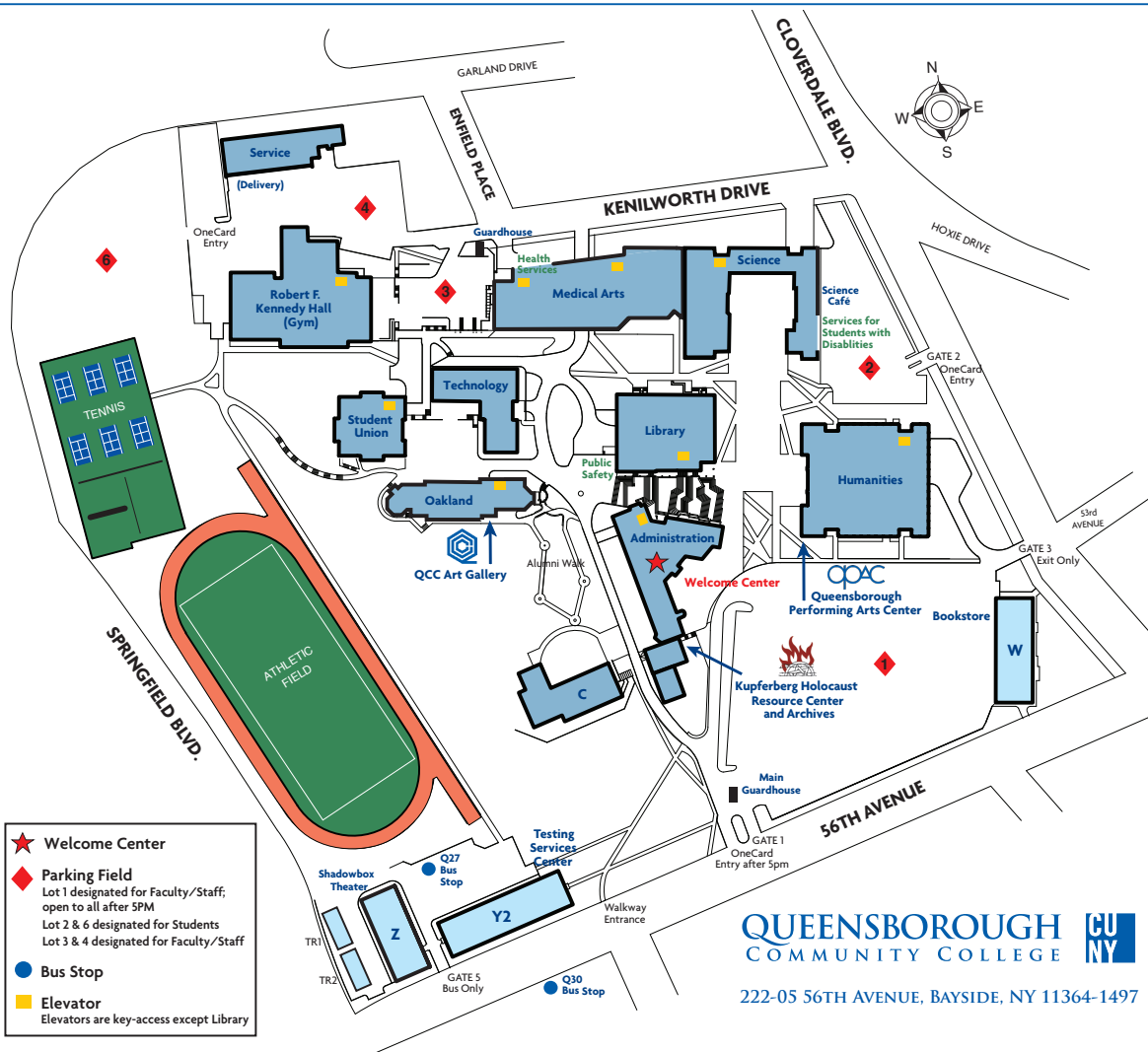
Moderator(s): Amy Vasquez / Thao (Tess) Le

11:00 PREPARATION AND CHARACTERIZATION OF LINEAR POLY(δ -DECALACTONE-L-LACTIDE) FOR ENCAPSULATING PHOTOCHROMIC DYES FROM AQUEOUS ENVIRONMENTS. Erica DePalma and Amy M. Balija Department of Chemistry, Fordham University, Bronx, NY 10458

11:15 FORMULATING A COMMERCIAL NAIL POLISH WITH BINARY LATEX SOLUTIONS. Kameka Deans and Naphtali O'Connor Department of Chemistry, Lehman College, Bronx, NY 10468

11:30 FLUORESCENT HYDROGEL EXHIBITING POSITIVE VOLUME PHASE TRANSITION. Marilee Karagolian and Sergey Kazakov Department of Chemistry and Physical Sciences, Pace University, Pleasantville, NY 10570

- 11:45 THE STRUCTURE OF POLYSACCHARIDE-POLYAMINE
CROSSLINKED HYDROGELS.** Nabila Malik and Naphtali O'Connor
Department of Chemistry, Lehman College, Bronx, NY 10468
- 12:00 INVESTIGATION OF HYDROGEL CONSTRUCT MATERIAL
PROPERTIES FOR CARTILAGE TISSUE REPLACEMENT.** Vaughn
Greene Jr, Elizabeth Mansfield and Debra Auguste Department of Biomedical
Engineering, City College of New York, New York, NY 10031
- 12:15 ARBUTIN ESTERS: BIOCATALYTICALLY DERIVED MOLECULAR
GELATORS.** Isirikoufoulou Sibabi, Julian Silverman and George John
Department of Chemistry, The City College of New York, New York, NY
10031



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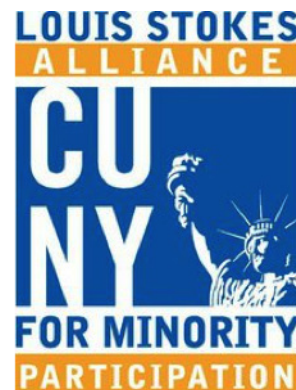
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