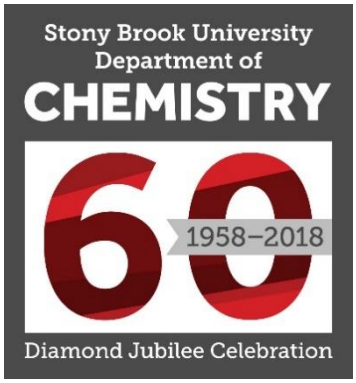
The Department of Chemistry
Stony Brook University

Presents

The 19th Annual

CHEMISTRY RESEARCH DAY

CELEBRATING 60 YEARS OF CHEMISTRY AT STONY BROOK



October 19, 2018

Stony Brook University
College *of* Arts and Sciences

CHEMISTRY RESEARCH DAY

PROGRAM

11:00 am – 12:30 pm	**Poster Session I – Even-Numbered Posters** **Student Activities Center Ballroom A**
12:30 pm – 1:30 pm	**Participant Luncheon** **Student Activities Center Ballroom B**
1:30 pm – 3:00 pm	**Poster Session II – Odd-Numbered Posters** **Student Activities Center Ballroom A**
3:00 pm – 3:20 pm	**Reception** **Student Activities Center Why Lobby**
3:30 pm – 5:00 pm	**Keynote Lecture** **Student Activities Center Auditorium** **Introduction: Professor Surita Bhatia** **Speakers: Stephen Heller (BS, 1963)** **Stephanie Sen (PhD, 1989)** **Christopher Cahill (PhD, 1999)**
5:00 pm – 6:00 pm	**Chemistry Department Celebration!** **Chemistry Building Lobby**
6:30 pm – 8:30 pm	**Alumni Mixer and Long Island Wine Tasting** **Simons Center Café ($20 per person)**

NO.	PRESENTERS	AUTHORS	TITLE
1	Niseem Abdelrahman	Niseem Abdelrahman, Roy Lacey	System Size and Shape Dependence of Anisotropic Flow
2	Shin Hye (Grace) Ahn	Shin Hye Ahn, Daniel Thach, Brett Vaughn, Eszter Boros	Site-Specific Antibody-Probe Conjugation of Siderophore-Based Chelators for Improved Targeted Imaging with ^{89}Zr
3	Rehana Akter	Rehana Akter, Rebekah L. Bower, Andisheh Abedini, Bela Ruzsicska, Matthew E Miller, Ann Marie Schmidt, Debbie L. Hay, Daniel P. Raleigh	Rational Design of Non-Amyloidogenic, Bioactive Human Islet Amyloid Polypeptide (IAPP) Analogs with Improved Solubility; A Promising Adjunct to Insulin Therapy
4	Monaf Awwa	Monaf Awwa , Su Yan, Matthew W. Elmes, Jessica Li, Kiana Ziadkhanpour, Martin Kaczocha, Dale G. Deutsch, Iwao Ojima	Design, Synthesis, and SAR of Lipid Chaperone Inhibitors as Therapeutic Agents for Cancer and Chronic Pain
5	Lu Bai	Lu Bai, Erik R. Van Vlack, Jessica C. Seeliger	Exploring Potential Inhibitors of LprG Towards a Better Understanding of Lipid transport Mechanisms in Mycobacteria
6	Jin Bakalis	Jin Bakalis, Peng Zhao, Christopher Corder, Xinglong Li, Matthew D. Kershis, Amanda R. Muraca, Michael G. White, Thomas K. Allison	Dynamics of Excited States in Organic Materials Probed with Electron Momentum Microscope
7	Rajeswari Basu	Rajeswari Basu, Chendi Gu, Matthew Cifone , Jonathan Merino and Peter J.Tonge	The Coupling Between Residence Time and Post-Antibiotic Effect

NO.	PRESENTERS	AUTHORS	TITLE
8	José Miguel Bautista	José Miguel Bautista, Myles Sylfies, Thomas Allison	Towards Widely-Tunable Cavity-Enhanced 2D-IR Spectroscopy
9	Kellon Belfon	Kellon A. A Belfon, Chuan Tian, James A. Maier, Carlos Simmerling	GenA: A GPU Implemented Genetic Algorithm for Optimizing Torsion Pparameters for Molecular Dynamics Simulations
10	Francis Boadi	Francis O. Boadi, Nicole S. Sampson	Alternating Ring -Opening Metathesis Polymerization (AROMP): A Novel Technique for Synthesizing Sequence-Controlled, Functionalizable, and Degradable Polymers
11	Elle Butler Basner Kenneth Ferraro and Anna Sajan	Elle Butler Basner, Kenneth Ferraro, Anna Sajan, Lisa Shah, Gregory T. Rushton	Student Performance in a General Chemistry Course at Stony Brook University: A Longitudinal Analysis
12	Danielle Cervasio	Danielle A. Cervasio, Alyssa N. Preston, Kevin C. Tan, Scott T. Laughlin	Targeting Astrocytes using a Tetracycline-Inducible Expression System
13	Hui Chen	Hui Chen, Sunil Sharma, Priyanka Sharma, Heidi Yeh, Benjamin Hsiao	Efficient Removal of As(III) in Drinking Water by micro and nano dialdehyde Cellulose-Cysteine Complexes Extracted from Wood Pulp
14	Lei Chen	Lei Chen, Yunrong Jing, Xin Wang, Changwei Wang, Iwao Ojima	Strategic Incorporation of Fluorine into Taxoid Anticancer Agents for Medicinal Chemistry and Chemical Biology Studies
15	Matthew Cifone	Matthew Cifone, Craig Stivala, Lauren Spagnuolo, Shabnam Davoodi, and Peter Tonge	Bivalent Inhibitors of Acetyl CoA Carboxylase

NO.	PRESENTERS	AUTHORS	TITLE
16	Timothy Clement	Su Yan, Kongzhen Hu, Simon Tong, Matthew W. Elmes, Joseph Sweeney, Hao-Chi Hsu, Alby Joseph, Monaf Awwa, Martin Kaczocha, Hui Iin Li, Robert C. Rizzo, Dale G. Deutsch, Iwao Ojima	Design, Synthesis and SAR Study of a/γ-Truxillic Acid-Based Fatty Acid Binding Protein Inhibitors as Anti-Nociceptive and Anti-inflammatory Drugs
17	Adam Corrao	Adam Corrao, Christopher Coaty, Gerard Mattei, Ping Liu, Peter Khalifah	Control of Internal Porosity in Nanoporous metals - Insights from *In situ* Synchrotron Studies
18	Alexia Cosby	Alexia Cosby, Shin Hye Ahn, Eszter Boros	Cherenkov-Mediated Excitation of Lanthanide Luminescence
19	Monty Cosby	Monty Cosby, Zhuo Li, Liang Yin, Gerard Mattei, Seongbeom Lee, Venkat Subramanian, Peter Khalifah	Modeling State-of-Charge Gradients in Operating Thick Battery Cathodes
20	Fereidoon Daryaee	Fereidoon Daryaee, Yong Li, James Iuliano, Peter Tonge	The Role of Time in Biology
21	Taraneh Daryaee	Taraneh Daraee, James Iuliano, Yong Li, Peter Tonge	A Novel Raman Probe For Structural Dynamics of InhA
22	Shabnam Davoodi	Shabnam Davoodi, Fereidoon Daryaee, James Iuliano, Jinnette Tolentino Collado, Peter J. Tonge	The Impact of Tyr158 pKa on Proton Transferring Process in InhA Active Site
23	Brian Fairall	Brian E. Fairall, Eric V. Patterson	Chlorination of Essential Medicine Contaminants in Wastewater Treatment

NO.	PRESENTERS	AUTHORS	TITLE
24	Jonathan Fischer	Jonathan T. Fischer, Sajjad Hossain, Elizabeth M Boon	The Newly Discovered NosP Signaling Pathway Modulates Cyclic-di-GMP Metabolism in *Legionella pneumophila*
25	Qinyi Fu	Qinyi Fu, Hongyang Ma, Benjamin S. Hsiao, Benjamin M. Ocko	Structural Study of Polyamide Barrier Layers Relevant to Reverse Osmosis Membranes
26	Han Gao	Han Gao, David M. Connors, Nancy S. Goroff	A New Route Toward Substituted Phenanthro[9,10c]thiophenes and Related Polymers
27	Kenneth Goodman	Kenneth Goodman, Jason Wang, Yilin Ma, Michael White	Reactivity of Model Inverse Catalysts Prepared by Size-Selected Cluster Deposition
28	Haoyue Guo	Haoyue Guo, Amy C. Marschilok, Kenneth J. Takeuchi, Esther S. Takeuchi, Ping Liu	A First Principles Study of Spinel ZnFe2O4 for Electrode Materials in Lithium-ion Batteries
29	Steven Hall	Steven Hall, Elizabeth Boon	Structural And Functional Determination Of Heme Coordination In NosP
30	Rebecca Hamlyn	Rebecca Hamlyn, Ivan Orozco, Mausumi Mahapatra, Sanjaya Senanayake, José Rodríguez	Structural and Chemical Effects of cesium on the Cu_xO/Cu(111) Surface via Microscopy and Spectroscopy
31	Sang uk Han	Sang uk Han, Deborah A. Barkley, Jonathan G. Rudick	Self-Organizing Peptide-Dendron Hybrids
32	Krupanandan Haranahalli	Krupanandan Haranahalli, Yi Sun, Cristina Lazzarini, Julia Zambito, Maurizio Del Poeta, Iwao Ojima	SAR Study on Novel Anti-Fungal Agents Targeting the Synthesis of Fungal GlcCer
33	Ilana Heckler	Ilana Heckler, Sajjad Hossain, Elizabeth M. Boon	Discovery of a Nitric Oxide Responsive Quorum Sensing Circuit in *Vibrio cholerae*

NO.	PRESENTERS	AUTHORS	TITLE
34	David Hewitt	David Hewitt, Robert Grubbs	Controlled Polymerization of Ethyl Glyoxylate: Synthesis of Degradable Block Copolymers
35	Lisa Housel	Lisa Housel, Calvin Quilty, Alyson Abraham, Christopher Tang, Alison McCarthy, Genesis Renderos, Diana Lutz, Ping Liu, Amy Marschilok, Esther Takeuchi, Kenneth Takeuchi	Investigating Transport Properties of VO2(M) and VO2(R) via Temperature Dependent Electrochemistry and Diffraction
36	Wei Huang	Wei Huang, Wei-Siang Kao, Pratik Kumar, Scott Laughlin	Controllable Cyclopropene Bioorthogonal Reactions for Histochemical Detection
37	Ting Jiang	Ting Jiang, Pratik Kumar, Wei Huang, Wei-Siang Kao, Adrian Thompson, Scott T. Laughlin	Modular Enzyme- and Light-Activatable Cyclopropene-Tetrazine Ligation for Spatiotemporal Imaging of Biological Systems
38	Jindong Kang	Jindong Kang, Mausumi Mahapatra, Ramón A. Gutiérrez, Pedro J. Ramírez, Rebecca Hamlyn, Ning Rui, Zongyuan Liu, Ivan Orozco, Sanjaya D. Senanayake, José A. Rodriguez	Growth, Structure and Catalytic Properties of ZnOx Grown on CuOx/Cu(111) Surfaces
39	Wei-Siang Kao	Wei-Siang Kao, Pratik Kumar, Frank M. Camarda, Wei Huang, John A. Mannone, Scott T. Laughlin	Exploring Inverse Electron Demand Diels-Alder Substrates in an Activatable Cycloaddition

NO.	PRESENTERS	AUTHORS	TITLE
40	Jinwoo Kim	Jinwoo Kim, Diane M. Bogdan, Matthew W. Elmes, Monaf Awwa, Su Yan, Joyce Che, Garam Lee, Dale G. Deutsch, Robert Rizzo, Martin Kaczocha, Iwao Ojima	Synthesis and Neurobiological Evaluations of (-)-Incarvillateine and its Mono Ester
41	John Kreinbihl	John Kreinbihl, Yi Yang, Sarah Waller, Chris Johnson	Vibrational Spectroscopy and Structure of Complex Atmoshperic Clusters in Novel Ion Trap Systems
42	Pratik Kumar	Pratik Kumar, Ting Jiang, Omar Zainul, Wei-Siang Kao, Wei Huang, Scott T. Laughlin	Activatable Cyclopropenes for Spatiotemporal Control of Bioorthogonal Reactivity
43	Yong Li	Zhuo Zhang, Alvaro A. Ordonez, Hui Wang, Yong Li, Kayla R. Gogarty, Edward A. Weinstein, Fereidoon Daryaee, Jonathan Merino, Grace E. Yoon, Alvin S. Kalinda, Ronnie C. Mease, James N. Iuliano, Peter M. Smith-Jones, Sanjay K. Jain, Peter J. Tonge	2-[18F]F-PABA, a Novel PET Tracer for Imaging Bacterial Infection
44	Chenwei Liu	Chenwei Liu, Robert B. Grubbs	Efforts to Synthesis Polythioacetals
45	Weiping Liu	Weiping Liu, Amanda Carr, Kevin Yager, Alexander Routh, Surita Bhatia	Effects of Nanoparticle Size Ratio on Stratification of Binary Mixtures During Evaporative Assembly

NO.	PRESENTERS	AUTHORS	TITLE
46	Yilin Ma	Yilin Ma, Meng Xue, Kenneth R. Goodman, Ping Liu, Michael G. White	Reactivity Studies of Supported Size-Selected Metal Sulfide Clusters
47	John Mannone	John Mannone, Pratik Kumar, Frank Camrada, Scott Laughlin	Synthesis of Next-Generation C3-Difluoro Containing Caged Cyclopropenes
48	Gerard Mattei	Gerard S. Mattei, John M. Dagdelen, Nils Zimmermann, Matteo Bianchini, Emmanuelle Suard, Christian Masquelier, Laurence Croguennec, Gerbrand Ceder, Kristin A. Persson, Peter G. Khalifah	A Materials Genomics Approach for Solving Crystal Structures From Powder Diffraction Data
49	Luz Mendez	Luz C. Mendez, He Huang, Maria T. Rodolis, Linghui Wu, Nicole S. Sampson	Identifying Inducers of the Acrosome Reaction in Human Sperm with Synthetic Glycopolymers
50	Jonathan Merino	Jonathan Merino, Fereidoon Daryaee, Chendi Gu, Rajeswari Basu, Matthew Cifone, Mustufa Baba, Peter J. Tonge	Abating Antibiotic Resistance: An SKR-Driven Discovery of Novel LpxC Inhibitors
51	Hanna Morales Hernández	Hanna Morales Hernández, Anthony Cirri, Christina Kmiotek, Chris Johnson	Isolation and Characterization of Gold Nanoparticle Surface Stabilizing Species
52	Lisa-Marie Nisbett	Lisa-Marie Nisbett, Elizabeth M. Boon	Elucidating the Role of a NosP Signaling Pathway in Regulating c-di-GMP Concentration and Biofilm Formation in *Burkholderia thailandensis*

NO.	PRESENTERS	AUTHORS	TITLE
53	Daeun Noh	Daeun Noh, Zachary Ridgway, Kyun-Hoon Lee, Daniel Raleigh	Proline Scanning Mutagenesis Defines a Critical Region of Human IAPP for Amyloid Formation
54	Ivan Orozco	Ivan Orozco, Zongyuan Liu, Robert Palomino, Sanjaya Senanayake, José Rodriguez	Methane Activation on a Model CeO2/CuOx/Cu(111) Surface
55	Apurva Pandey	Apurva Pandey, Chloé Marie Savino, Eszter Boros	Siderophore-Conjugates as Theranostics for Bacterial Infections
56	Lauren Prentis	Lauren E. Prentis, Yuchen Zhou, Courtney D. Singleton, Carol Carter, Robert C. Rizzo	Computational Drug Design Studies for Lead Refinement Using from scratch Construction and Molecular Evolution in DOCK6
57	Alyssa Preston	Alyssa N. Preston, Joshua D. Farr, Kevin C. Tan, Danielle A. Cervasio, Lauren R. Butkus, Scott T. Laughlin	Chemical Approaches to Visualizing the Brain's Astrocytes
58	Suan Quah-Ivarson	Suan Quah-Ivarson, Dmytro Nykypanchuk, Surita Bhatia	Structural and Compressive Behavior of Temperature-Dependent Multicomponent Alginate/PEO-PPO-PEO Hydrogels
59	Zachary Ridgway	Zachary Ridgway, Daeun Noh, Amy Wong, Rebekah L. Bower, Ann Marie Schmidt, Daniel P. Raleigh	Disulfide and Proline Mutations of IAPP Yield new Insight Into Mechanisms of Misfolding
60	Benjamin Schweid	Benjamin Schweid, Roy Lacey	Femptoscopic Measurements of Relativistic Au+Au Collisions at RHIC
61	Alvaro Sponza	Alvaro Sponza, Di Liu, Melanie Chiu	Dithienylethene Carboxylates for Photoswitchable Vinyl Ether Polymerization

NO.	PRESENTERS	AUTHORS	TITLE
62	Bin Sun and Emily Chen	Bin Sun, Daniel Lux, Eric Patterson, Emily Chen, Nancy S. Goroff	Design, Synthesis, and Investigation of Shape-Persistent Macrocycles as Hosts for Iodocarbons: Toward the Formation of Carbyne
63	Yi Sun	Yi Sun, Krupanandan H. Haranahalli, Cristina Lazzarini, Maurizio D. Poeta, Iwao Ojima	SAR Study of Novel Heterocyclic Acylhydrazones as Anti-Fungal Agents Targeting the Synthesis of Fungal GlcCer
64	Kevin Tan	Kevin C. Tan, Alyssa N. Preston, Scott T. Laughlin	Creating an Astrocyte-Specific Calcium Probe to Study the Brain's Synapses
65	Adam Taouil and Atri Maharaj	Adam K. Taouil, Atri G. Maharaj, Monaf Awwa, Timothy Clement, Iwao Ojima	Quantitative *In Silico* Design of Novel Truxillic Acid Mono-Esters as Anti-Nociceptive Agents Targeting Fatty Acid Binding Protein 5
66	Stephen Telehany	Stephen Telehany, Monica Humby, Dwight McGee, Amy Jacobs, Robert C. Rizzo	Inhibition of ZikaViral Entry Targeting Glycoprotein E
67	Adrian Thompson	Adrian Thompson, Ting Jiang, Pratik Kumar, Scott Laughlin	Synthesis of Spirocyclopropene for Spatiotemporal Living System Imaging
68	Allan Tran	Allan Tran, Krupanandan Harahanalli, Iwao Ojima	Computer-Assisted Drug Design of Benzimidazole-Based FtsZ Inhibitors as New-Generation Anti-TB Agents
69	Brett Vaughn	Brett Vaughn, Justin Devaraj, Eszter Boros	Bifunctional Chelators for Prostate Cancer Imaging and Therapy
70	Jason Wang	Jason Wang, Kenneth Goodman, Michael White	Surface Morphology of Size Selected TixOy Clusters Supported on Au(111)
71	Joshua Werman	Joshua Werman, Tianao Yuan, Xinxin Yang, Nicole Sampson	Exploiting Mycobacterium Tuberculosis Cholesterol Metabolism for New Opportunities in Anti-TB Drug Discovery

NO.	PRESENTERS	AUTHORS	TITLE
72	Helena Woroniecka	Helena A. Woroniecka, James N. Iuliano, Jinnette Tolentino Collado, Iva Chitrakar, Andras Lukacs, Christopher Hall, Katrin Adamczyk, Steve Meech, Jarrod B. French, Peter J. Tonge	Photoswitchable Protein Fluorescence: Solving Structural Secrets of Kohinoor via Spectroscopy
73	Dandan Yang	Dandan Yang, Matthew Freitag, Nancy S. Goroff	Attempts to Prepare Ladder Polydiacetylenes by Topochemical Polymerization
74	Mengying Yang	Mengying Yang, Pejman H. Myavagh, Benjamin S. Hsiao, Harold Walker	Effect of the Surface Zeta Potential on the Fouling Reduction of Nanocellulose Coated Ultrafiltration Membranes
75	Wyanna Yeung	Wyanna Yeung, Eric V. Patterson	Density Functional Studies on Enolate Formation in Gestodene
76	Liang Yin	Liang Yin, Gerard S. Mattei, Zhou Li, Jianming Zheng, Wengao Zhao, Fredrick Omenya, Chengcheng Fang, Wangda Li, Jianyu Li, Qiang Xie, Ji-Guang Zhang, M. Stanley Whittingham, Y. Shirley Meng, Arumugam Manthiram, Peter G. Khalifah	Extending the Limits of Powder Diffraction Analysis: Occupancy Defects in NMC Cathodes, Diffraction Parameter Space, and the Resolution of Atomic Form Factors
77	Xuechen Yin	Xuechen Yin, David Hewitt, Suan P. Quah, Bingqian Zheng, Robert B. Grubbs, Surita R. Bhatia	Impact of Stereochemistry on Rheology and Nano/Microstructure of PLA-PEO-PLA triblocks: Enhanced Moduli at Intermediate L/D-lactide Ratios

NO.	PRESENTERS	AUTHORS	TITLE
78	Gyusaang Youn	Gyusaang Youn, Nicole Sampson	Regio- and Stereoselectivity of Bicyclo[4.2.0]oct-1(8)-ene Derivatives in Ring-opening Metathesis with 3rd Generation Grubbs Catalyst: Keys to The Successful AROMP
79	Xiaoxi Yu	Xiaoxi Yu, Bingqian Zheng, Guofang Li, Gyusaang Youn, Nicole Sampson, Surita Bhatia	Small-Angle X-ray Scattering and Interfacial Rheology Study of Sequence-Controlled Copolymers
80	Bingjie Zhang	Bingjie Zhang, Paul Smith, Seung-Yong Lee, Lijun Wu, Yimei Zhu, Esther Takeuchi, Amy Marschilok, Kenneth Takeuchi	Tailoring the Silver Content within the Tunnels and on the Exposed Surfaces of Manganese Oxide Nanowires—Impact on Impedance and Electrochemistry
81	Peng Zhao	Peng Zhao, Christopher Corder, Jin Bakalis, Xinlong Li, Matthew D. Kershis, Amanda R. Muraca, Michael G. White, Thomas K. Allison	Ultrafast Extreme Ultraviolet Photoemission without Space Charge
82	James Iuliano	Unraveling the Mechanism of an Optogenetic Sensor: Glutamine Lever Induces Unfolding of the Ja-helix	James N. Iuliano, Christopher R. Hall, Jinnette Tolentino Collado, Seungyoun Shin, Agnieszka A. Gil, Pavithran Ravindran, Andras Lukacs, Sergey P. Laptenok, Helena A. Woroniecka, Gregory M. Greetham, Michael Towrie, Jared E. Toettcher, Jarrod B. French, Carlos L. Simmerling, Stephen R. Meech, Peter J. Tonge
83	Ashwin Ambi	Ashwin Ambi, Tiffany W. Victor, Randy J. Smith, Steven O. Smith, William Van Nostrand, Lisa M. Miller	Understanding the Relationship between Copper Elevation and Amyloid Deposition in Cerebral Amyloid Angiopathy Using the X-ray Fluorescence Microscopy

Keynote Alumni Short Talks

Student Activities Center Auditorium, 3:30 p.m.

Stephen Heller (BS, 1963) graduated from Stony Brook University with a BS degree in Chemistry in 1963. He received his PhD in Chemistry from Georgetown University in 1967. He is the founder/creator/originator of the NIH/EPA/NIST Mass Spec database, the NIH/EPA CIS (Chemical Information System), the SciWords series of scientific spell checkers, the International Plant & Animal Genome conferences, and the IUPAC InChI project. His awards and honors include the EPA Gold Medal for the design and implementation of the Chemical Information System (CIS) in 1976; co-recipient of the ACS/CINF Division Skolnik Award in 2000; a member of the InChI team that was given the CSA Trust Mike Lynch Award in 2014; the recipient of the ACS Patterson-Crane Award for work on the development of the IUPAC International Chemical Identifier (InChI) in 2015; and an IUPAC Fellow (2016). He is Advisory Board member of the NIH PubChem project from 2004. From 2000–2006, he was a consultant to and a contributing editor of specialized databases for Chemindustry.com. From 2000–2002, he was a strategic planner for MDL Information Systems. He was a member of the editorial board of the all electronic journal: the Internet Journal of Chemistry from 1997-2004 and Software Review Editor for the Journal of Chemical Information and Computer Sciences (JCICS); now the Journal of Chemical Information and Modeling (JCIM), from 1987–2015. He was a member of the J. Cheminformatics Editorial Board from 2015 – date. He has published over 160 papers in peer reviewed journals.

Stephanie Sen (PhD, 1989) received a BA in Chemistry from Bryn Mawr College and a PhD in Organic Chemistry from Stony Brook University, with Glenn D. Prestwich. She worked as a NIH postdoctoral fellow at the Scripps Research Institute, with Don Hilvert, and then at Stanford University, under William S. Johnson. After serving as Professor of the Chemistry and Biology Departments at Indiana University-Purdue University Indianapolis, Dr. Sen moved to The College of New Jersey, where she is Professor of Chemistry. Dr. Sen's research interests are in plant and insect metabolism and the development of agriculturally-relevant synthetic agents. Her work has been funded through the National Science Foundation, the National Institutes of Health, and the U.S. Department of Agriculture, and she was recipient of the Herman Frasch Foundation Award for Agricultural Research. Her current efforts have

focused on undergraduate education and training of young researchers. Dr. Sen has served as councilor of the Council of Undergraduate Research and is currently Director of the Honors Program at the College of New Jersey.

Christopher Cahill (PhD, 1999) grew up on an apple orchard, in nearby Fort Salonga, NY. His education includes a BS in Geochemistry from the State University of New York (SUNY)-Fredonia (1993) and a PhD in Chemistry from Stony Brook in 1999, with John Parise. He joined The George Washington University in 2000, after a one-year post-doc at the University of Notre Dame. He is an expert in solid-state and materials chemistry with a particular emphasis on X-ray crystallography. His current research areas include exploring uranium and transuranic species under environmentally relevant conditions. He has published over 140 peer reviewed papers on the synthesis and structural characterization of materials and minerals. He is a recipient of the prestigious NSF CAREER Award (2004), a Bender Teaching Award (2005), a Fulbright Scholarship (2008) and the Trachtenberg Prize for Teaching (2013). He is a past President of The American Crystallographic Association (2014-2016), a member of the Cosmos Club, and has held visiting researcher positions at the Carnegie Institution of Washington and Argonne National Laboratory. During 2015-2016, he served as the American Institute of Physics State Department Science Fellow at the US State Department's Office of Weapons of Mass Destruction Terrorism on the Nuclear Forensics Team.

Thank you to all of our sponsors!

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- **Alumni Mixer and Long Island Wine Tasting Sponsor** – Professor Benjamin Hsiao
- **Meet & Greet Alumni and Friends Brunch** – Professor Nicole Sampson
- **Alumni Career Panel** – Professor Nancy Goroff
- **Lunch Sponsor** – Professor Surita Bhatia
- **SAC Why Lobby Reception Sponsor** – Professor Elizabeth Boon
- **Departmental Celebration Reception Sponsor** – Professor Iwao Ojima
- **Commemorative 60th T-shirt Sponsor** – Professor Stephen Koch

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