#### CURRICULUM VITAE

# LISA A. KELLY

## Professor of Chemistry and Biochemistry University of Maryland, Baltimore County Baltimore, MD 21250

## EDUCATION

Ph.D.	1993	Bowling Green State University, Bowling Green, OH,
		Photochemical Sciences
M.S.	1989	University of Rochester, Rochester, N.Y., Chemistry
B.S.	1988	State University of New York at Geneseo, Geneseo, N.Y.
		Chemistry

## **Experience in Higher Education**

2023 - Present	University of Maryland, Baltimore County, Baltimore, MD,		
	Professor, Physical Chemistry and Photochemistry		
2002 - 2023	University of Maryland, Baltimore County, Baltimore, MD,		
	Associate Professor, Physical Chemistry and Photochemistry		
1996 - 2002	University of Maryland Baltimore County, Baltimore, MD,		
	Assistant Professor, Physical Chemistry and Photochemistry		

## **Experience in Other than Higher Education**

1994 - 1996	National Synchrotron Light Source, Brookhaven National Lab,	
	Upton, NY, DOE Distinguished Post-Doctoral Fellow.	

### Honors/Awards Received

2020	Hrabowski Innovation Award – CNMS Fellow in Online Instruction (\$500)
2014	Entrepreneurship and Innovation Curriculum Award, Alex Brown Center for Enrepreneurship (\$3000)
1997	R&D 100 Award "The Fluorescence Omnilyzer," Brookhaven National Laboratory.
1994 – 1996	Department of Energy Distinguished Post-Doctoral Fellow, Brookhaven National Laboratory
1989 – 1993	Harold and Helen McMaster Junior Fellow, Bowling Green State University
1988 - 1989	Sherman Clarke Fellowship, University of Rochester

## Patents

- Sample, Jennifer L., Patrone, Julia B., Benkoski, Jason J., Breidenich, Jennifer L., Kelly, Lisa A., Le, Huong, Crookston, James C., Patchan, Marcia W., Garza, Luis, Calderon-Colon, Xiomara, Wolfe, Joshua T., Theodore, Melissa, L., Nelson, Amanda, Kang, Sewon, "*Topical Compositions and Methods of Detection and Treatment*," U.S. Patent 10,758,630, September 1, 2020.
- Trexler, Morgan, M., Zhang, Dajie., Kelly, Lisa A., Sample, Jennifer L., Brupbacher, John M., "Method of Producing Nanoparticle Taggants for Explosive Precursors," U.S. Patent 9,162,514, October 20, 2015.
- 3. Trexler, Morgan, M., Zhang, Dajie., **Kelly, Lisa A.**, Sample, Jennifer L., Brupbacher, John M., *"Nanoparticle Taggants for Explosive Precursors*," U.S. Patent 8,895,158 B2, November 25, 2014.

## SERVICE - PROFESSION

2022	<b>Symposium Organizer and co-Chair</b> , " <i>Photochemistry and Photophysics in Materials – A Pan-American Symposium</i> ," 41 <sup>st</sup> Biennial Meeting of the American Society of Photobiology, Albequerque, NM, September 22 – 25, 2022.
2020	Review Panel Member, National Science Foundation Chemical Structure, Dynamics and Mechanisms (CSDM)-B " <i>Mechanisms and Photochemistry</i> ."
2018	<b>Symposium Organizer and co-Chair</b> , "Organic and Inorganic Photochemistry of Functional Materials: A Pan-American Perspective," 2018 Biennial Meeting of the American Society for Photobiology, Tampa, FL, May 12 – 15, 2018.
2018	Symposium Moderator, " <i>Synthetic and Supramolecular Photochemistry</i> ," 27 <sup>th</sup> Inter-American Photochemical Society Meeting, Sarasota, FL, January 2 – 5, 2018.
2017 - Present	Member, Awards Committee, American Society for Photobiology.
2016	<b>Symposium Organizer and co-Chair</b> , " <i>Current Trends in Photochemistry and Imaging</i> ," 2016 Biennial Meeting of the American Society for Photobiology, Tampa, FL, May 21 – 26, 2016.
2008	<b>Conference Organizer and co-Chair</b> , 34 <sup>th</sup> Annual Meeting of the American Society for Photobiology, Burlingame, CA, June 20 – 25, 2008.

2005 - 2006	Elected President, American Society for Photobiology.
2005	Panelist and Moderator, $16^{th}$ Winter Conference of the Inter- American Photochemical Society, Clearwater Beach, FL, January $2-5$ , 2005.
2004	<b>Symposium Organizer and co-Chair</b> , " <i>Mechanisms of Protein Oxidative Damage</i> ," $32^{nd}$ Annual Meeting of the American Society for Photobiology, Seattle, WA, July $10 - 14$ , 2004.
2004	Review Panel Member, National Institutes of Health Minority Biomedical Research Support (MBRS).
2004	Review Panel Member, National Science Foundation Chemical Research Instrumentation and Facilities (CRIF).
2004 - 2005	President-Elect, American Society for Photobiology.
2003	<b>Symposium Organizer and co-Chair</b> , " <i>Photochemical Tools in Genomics and Proteomics</i> ," 31s Annual Meeting of the American Society for Photobiology, Baltimore, MD, July 5 – 9, 2003.
2003	Panelist and Moderator, 14 <sup>th</sup> Winter Conference of the Inter- American Photochemical Society, Clearwater Beach, FL, Jan. 2 – 5, 2003.
2002 - 2005	Associate Editor, Photochemistry and Photobiology.
2002 - 2004	Member, Advisory Board of the Inter-American Photochemical Society.
2002	Panelist and Moderator, 13 <sup>th</sup> Winter Conference of the Inter- American Photochemical Society, Tempe, AZ, Jan. 2 – 6, 2002.
1998 - 2002	Elected Council Member, American Society for Photobiology.
1998 - 2006	Elected Treasurer, Inter-American Photochemical Society.
1998 - 2000	Member, Users' Executive Committee of the National Synchrotron Light Source, Brookhaven National Laboratory, Upton, NY.

# **Professional Memberships**

Inter-American Photochemical Society, American Society for Photobiology, American Chemical Society

## Peer Review

<u>Funding Agencies:</u> National Science Foundation (including CAREER proposals), National Institutes of Health, American Chemical Society Petroleum Research Fund, Research Corporation, Cottrell Scholars

<u>Journals:</u> Journal of the American Chemical Society, Journal of Physical Chemistry A, B and C, Photochemistry and Photobiology, Photochemical and Photobiological Sciences, Langmuir, Journal of Organic Chemistry, Chemistry of Materials, Organic Letters, Free Radicals Research, New Journal of Chemistry, Molecular Pharmaceuticals, Materials Chemistry Frontiers

## **SERVICE - UNIVERSITY**

2022 - Present	Invited Member, ADVANCE Executive Committee
2022 - Present	STRIDE Fellow (Invited)
2016 - 2017	Member, Library Strategic Framework Committee
2016	Member, Scholar Works Advisory Committee
2013 - 2019	Member, ADVANCE Leadership Aliance (ALA)
2013 - 2014	Member, Faculty Grievance Policy Committee
2013 - 2014	Member, Capricoius Grading Committee
2012	Faculty Senate, Department of Chemistry and Biochemistry Representative
2008 - 2010	Member, ADVANCE Leadership Cohort 3
2007	Participant, ADVANCE-Sponsored National Leadership Conference for STEM Women, Baltimore, MD, June 1, 2007
2006	Member, Search Committee for Writing in the Discipline Director
2004 - 2011	Chair, ADVANCE Faculty Sponsorship Committee
2004 - 2005	Panelist, NSF ADVANCE Faculty Horizons Workshop for Aspiring STEM Faculty
2003 - 2010	<b>ADVANCE Faculty Liason</b> to the Department of Chemistry and Biochemistry
2001 - 2006	Member and Reviewer, Provost's Undergraduate Research Awards Committee
2001 - 2011	<b>Faculty Advisor</b> , Undergraduate Women in Science and Engineering (WISE) Group

## **SERVICE - DEPARTMENT**

2023 - 2024	Member, Faculty Search Committee (Lecturer)
2022 -	Member, Chemistry Laboratory Curriculum Alignment Committee
2022 – 2023	<b>Chair</b> , Departmental Promotion and Tenure Committee (Dr. Marie vanStaveren Promotion to Senior Lecturer)
2022 - 2023	Member, Undergraduate Curriculum Alignment Committee
2022	Member, 5-Year Post-Tenure Review Committee (Drs. Katherine Seley-Radtke, Bradley Arnold and Paul Smith)
2020	Member, Departmental Online Assessment Committee
2019 - 2020	Member, Biochemistry Faculty Search Committee
2018 - Present	Instructor, Graduate Summer Bridge (Physical Chemistry)
2018 - Present	<b>Co-Organizer (Alumni Panel Organizer and Outreach)</b> , Chemistry Graduate Student Research Days held Annually in March
2018 - 2019	Member, Pre-Professoriate Faculty Search Committee
2017 - Present	Chair, Graduate Student Professional Development Committee
2017	Member, External Reviewer Search Committee (for Departmental 7-Year Review)
2016 - 2017	Co-Chair, Faculty Search Committee (Lecturer)
2016 - 2017	Member, Graduate Recruiting and Admissions Committee
2016	Member, 3 <sup>rd</sup> Year Contract Renewal Committee (Dr. Minjoung Kyoung)
2016	Member, 5-Year Post-Tenure Review Committee (Dr. Bradley Arnold)
2014 - 2015	<b>Chair</b> , Departmental Promotion and Tenure Committee (Dr. Marcin Ptaszek Promotion with Tenure to Associate Professor)
2014	Member, Planning Committee for UMBC/UMB Research and Innovation Retreat (held at University of Maryland School of Pharmacy, May 3, 2014)
2014	Member, Planning Committee for Departmental Retreat (held on February 22, 2014)
2012 - Present	Departmental Library Liason
2009 - Present	Member, Undergraduate Curriculum Committee

- 2009 2015 **Chair**, Graduate Recruiting and Admissions Committee
- 2008 2009 Member, Graduate Recruiting Committee
- 2006 2009 **Instructor**, Graduate Summer Bridge (Physical Chemistry)
- 2007 2008 Chair, Physical Chemistry Faculty Search Committee
- 2005 2006 Member, Departmental Website Committee
- 2005 2006 Member, Departmental Chair Search Committee
- 2004 2007 Coordinator, Writing in the Discipline
- 2004 2005 **Chair**, Departmental Promotion and Tenure Committee (Dr. Veronika Szalai 3<sup>rd</sup> Year Review)
- 2003 2005 Member, Undergraduate Recruiting Committee
- 2002 2003 Chair, Graduate Recruiting Committee
- 2002 2005 Member, Chemistry-Biology Interface Advisory Board
- 2001 2002 Member, Physical Chemistry Faculty Search Committee
- 1999 2001 Member, Graduate Recruiting Committee
- 1998 1999 **Co-Organizer**, Inaugural Undergraduate Research Symposium in the Chemical and Biological Sciences
- 1996 1997 Departmental Seminar Coordinator

## **RESEARCH SUPPORT AND FELLOWSHIPS**

## Extramural Research Support (As PI/co-PI)

- 2022 2023 \$103,745 (\$67,676 Direct), *"Fluorescence Tagging of Fuel Additives,"* Life Cycle Engineering, Inc., Role: PI.
- 2020 2024 \$150,000 (\$116,640 Direct), "Photophysical Properties of MOF-Immobilized Photosensitizers," U. S. Army Combat Capabilities Development Command, Chemical Biological Center (CCDC CBC), Role: PI.
- 2019 2024 \$450,000 (\$322,824 Direct), "Mechanisms of Radical-Initiated Alkylation of Alkenes, Peptides and Proteins – A Green Chemistry Route," National Science Foundation (CHE-1855467), Role: PI.
- 2018 2019 \$77,780 (\$36,946 Direct), "*Mechanisms of Natural Vasculature Scaffolding*," Alucent Biomedical, Role: PI.

2016 - 2017	\$5,510 (Direct), " <i>Spectroscopic Analysis of Cr(III) in Treated Aluminum Pigments</i> ," 3Notch Chemicals (via Maryland Technology Development Corporation), Role: PI.
2013 - 2015	\$99,950 (\$70,669 Direct), <i>"Feature Flooring – Epoxy Flooring Degradation</i> ," Maryland Institutional Partnership, Role: PI.
2007 - 2008	\$237,500 (\$166,126 Direct), " <i>Laser Pulse Shaping for Remote Detection of Explosives</i> ," Temple University (subcontract from the Army Research Office), Role: co-PI (with Prof. Bradley Arnold).
2005 - 2007	\$225,000 (\$173,003 Direct), "Stand-Off Detection of Energetic Materials Using Back-Scattered Spectroscopy," The Johns Hopkins Applied Physics Laboratory, Role: co-PI (with Prof. Bradley Arnold).
2004 - 2010	\$50,000 (Direct), <i>"Fluorescence Polymers as Temperature-Responsive Smart Coatings</i> ," Rohm and Haas, Role: Pl.
2004 - 2008	\$337,620 (\$255,280 Direct), " <i>A Photophysical Study of Stimuli-Responsive Polymers</i> ," National Science Foundation (CHE-0415429), Role: PI.
2000 - 2004	\$499,985, " <i>Redox-Mediated Cleavage of Peptides and Nucleic Acids</i> ," National Science Foundation, CAREER Award (CHE-9984874), Role: PI.
1999 - 2003	\$344,000, " <i>Luminescent Polymers as Pressure-Sensitive Materials in Water</i> ," Office of Naval Research, Role: PI.
1999 - 2001	\$25,000, " <i>Artificial Assemblies for Saccharide-Selective Photooxidation</i> ," American Chemical Society, Petroleum Research Fund, Role: PI
1997 - 1999	\$30,000, <i>"Redox-Based Phototherapy Agents</i> ," American Cancer Society, Maryland Division, Role: PI.

## Extramurally Supported Training Grants (Significant Role, not as PI)

2021 - 2024 \$389,826 (\$350,137 Direct), "Research Experience for Undergraduates Site: Biochemical, Environmental and Molecular Research in Engineering (BEMORE)," National Science Foundation (EEC-2050728), Role: Faculty Mentor: "Photoswitchable Polymer Structures for Controlled Release."

2019 - 2022 \$762,000 (Total and Direct), "Andrew W. Mellon Summer Research Program in Baltimore at the Interface between Science and Art (Baltimore SCIART)," Role: Faculty Mentor: "Synthetic Hydrogels for Hide Glue Removal from Parchment."

2015 - 2020 \$357,305 (\$305,375 Direct), "Research Experience for Undergraduates in Advanced Chemical Sensing and Imaging," National Science Foundation (CHE-1460653), Role: Faculty Mentor: "Nanogel Particle-Based Sensors for pH and Temperature."

## Intramural Research Support (As PI)

2014 - 2015 \$3,000, "Field Portable Sensor Design in the Advanced Laboratory," Alex Brown Center for Entrepreneurship and Innovation, Curriculum Grant, Role: PI.

#### **STUDENTS MENTORED**

Nomo	Data Dh D. Dagraa	Current Desition
Name	Date Ph.D. Degree Confirmed	Current Position
	Commed	
– Owen Sparr	Expected May, 2027	Ph.D. Pre-Candidate - UMBC
<ul> <li>Madison Conte</li> </ul>	Expected May, 2027	Ph.D. Pre-Candidate - UMBC
– Ryan Grant	Expected May, 2024	Ph.D. Candidate - UMBC
– Dr. Stacey Sova	2019	US Food and Drug Administration
– Dr. Steven Manning	2013	Scientist, Kelly and Heckman LLP
– Dr. Yu Zhang	2010	Senior Chemist, Pharmaceuticals International Inc.
– Dr. Bindu Abraham	2006	Lecturer, Department of Chemistry and Biochemistry, UMBC
– Dr. Sun McMasters	2005	Chemist, Department of Homeland Security
– Dr. Anael Kimaro	2003	Senior Lecturer, St. Augustine University of Tanzania
– Dr. Joy (Rogers) Haley	2001	Research Team Leader, Air Force Research Laboratory – Photonics Materials Branch

#### Ph.D. Students (As Dissertation Committee Chair)

Name	Date Ph.D. Degree Confirmed
- Chandra Lowrance	Expected December, 2023
– Connor Riahan	Expected December, 2023
– Curtis Jones	Expected December, 2023
– Tao Zhang	Expected May, 2024
– Christopher Cooper	Expected May, 2024
– Eric Bowman	Expected May, 2024
– Mona Layegh	Expected May, 2024
– Leslie Scheurer	Expected May, 2024
– Sean Brown (Biological Sciences)	Expected May, 2024
– Brandon Busick	Expected May, 2025
<ul> <li>Anthony Casale</li> </ul>	Expected May, 2025
– Alex Reardon	Expected May, 2025
– Kushani Mendis	Expected May, 2026
– Hamed Sadatfaraji	Expected May, 2027
– Dr. Christopher Mayer-Bacon (Biological Sciences)	May, 2023
– Dr. Laura Johnson	December, 2022
– Dr. Sara Ansteatt	December, 2022
– Dr. Nopondo Esemoto	December, 2022
– Kenneth Childers	May, 2019
– Eric Languirand	May, 2017
– Danielle Schmitt	May, 2017
– Ester Sesmero	May, 2017
– Johan Melendez	May, 2016

# Ph.D. Students (As Dissertation Committee Member) (44 total)

Name	Date Ph.D. Degree Confirmed
– Rachel Taylor	May, 2016
– Brittny Davis	May, 2015
– Sudhir Dahal	May, 2014
– William Ghann	May, 2014
– Franziska Seeger	May, 2014
– Jeffrey Oleske	May, 2012
– Kartik Temburnikar	May, 2012
– Jian Sun	May, 2010
– Paul Cunningham (Physics)	May, 2010
– John van Druff (Chemical Engineering)	May, 2010
– Mohsen Rajabi	May, 2010
– Hailang Zhang	May, 2009
– Derek Smith (Chemical Engineering)	May, 2008
– Jesse Karr	May, 2007
– Rad Balu	May, 2007
– Quingrong Zhang	May, 2007
– Honggang Li	May, 2007
– Sue Bae	May, 2006
<ul> <li>Stacey Gelhaus</li> </ul>	May, 2005
– Dustin Levy	May, 2005
– Wendy Houck	May, 2004

Masters Students	(As Committee Chair)

Name	Date M.S. Degree Confirmed	Current Position
– Britney Hopgood	2022 (non-thesis)	STEM Education Facilitator, Puerto Rico Science Trust
– Melissa Roll	2019 (non-thesis)	Senior Programmer Specialist, The Hilltop Institute
– John Arthur	2012 (non-thesis)	Staff Pharmacist, PharmScript LLC
– Hao Hao Ke	2008 (non-thesis)	Unknown
– Kathleen (Daugherty) Davies	2004 (thesis)	Senior Public Policy Health Advisor, U.S. Food and Drug Administration
– Behzad Farivar, M.D.	2004 (thesis)	Vascular and Endovascular Surgeon, Director, University of Virginia Aortic Center
– Sharon (Weiss) Dornmemann	2000 (thesis)	Adjunct Faculty, Monmouth University
– Thao P. Le	2000 (thesis)	Supervisory Patent Examiner, U.S. Patent and Trade Office

# Undergraduate Students Mentored (45 total)

Name	Research Project	Dates	Current Position (where known)
– Amanda Thompson	NSF BEMORE REU	June, 2023 – August, 2023	B.S. Biochemistry student McDaniel College
<ul> <li>Madelyn (Gracie)</li> <li>Holm</li> </ul>	NSF BEMORE REU	June, 2023 – August, 2023	B.S. Chemical Engineering student Colorado School of the Mines
<ul> <li>Grayson Pipher</li> </ul>	Independent Study	September, 2022 – January, 2023	UMBC B.S. Biochemistry and Molecular Biology program

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Name	Research Project	Dates	Current Position (where known)
– Owen Sparr	Independent Study	June, 2022 – December, 2023	UMBC Chemistry Ph.D. Program
– Olivia Edwards	Independent Study	January, 2022 - Present	UMBC B.S. Biochemistry and Molecular Biology program
– Sukh Singh	Provost's Undergraduate Research Award	January, 2022 – June, 2023	Ohio State University Ph.D. Program
<ul> <li>Gabrielle Pozza</li> <li>(B.S. Chemistry</li> <li>2020)</li> </ul>	Independent Study	January, 2020 - Present	Ohio State University Ph.D. Program
– Ali Sulehria	NSF BEMORE REU	June – August, 2022	Tulane University B.S. Biomedical Engineering program
<ul> <li>Amanda McKee</li> </ul>	NSF BEMORE REU	June – August, 2022	West Virginia University Ph.D. Program
– Ewa Harazinska (B.S. Chemistry 2020)	SCIART	June – August, 2019	Johns Hopkins University Ph.D. Program
<ul> <li>Manos</li> <li>Tzortzakakis (B.S.</li> <li>Chemical</li> <li>Engineering 2020)</li> </ul>	Provost's Undergraduate Research Award	2018 - 2019	Associate Scientist II, NIAID/NIH
<ul> <li>Brett Lucht (B.S.</li> <li>Chemistry, Marist</li> <li>College, 2010)</li> </ul>	NSF Chemical Sensing and Imaging REU	June – August, 2018	University of Pittsburgh Ph.D. Program
<ul> <li>Duyquang Dong (B.S. Chemistry 2017)</li> </ul>	Independent Study	2017	
<ul> <li>Luca Santinella (B.S. Chemistry 2017)</li> </ul>	Independent Study	2016 - 2017	

Name	Research Project	Dates	Current Position (where known)
<ul> <li>Lucia Rodriguez</li> <li>(B.S. Chemistry,</li> <li>Winthrop</li> <li>University, 2019)</li> </ul>	NSF Chemical Sensing and Imaging REU	June – August, 2017	UMB/UMBC Biochemistry and Molecular Biology Ph.D. Program
<ul> <li>Kathleen</li> <li>Pagarigan (B.S.</li> <li>Chemistry, 2017)</li> </ul>	Provosťs Undergraduate Research Award	2016 – 2017	Legal Assistant, Department of Agrarian Reform
<ul> <li>Nhu Nguyen (B.S.</li> <li>Chemistry, 2019)</li> </ul>	Provost's Undergraduate Research Award	2016 - 2017	University of Virginia Ph.D. Program
<ul> <li>Elisa Castello (B.S. Chemistry, Stevenson University, 2018)</li> </ul>	NSF Chemical Sensing and Imaging REU	June – August, 206	University of Maryland School of Pharmacy, PharmD Program
<ul> <li>Kyle Martin (B.S. Biochemistry and Molecular Biology, 2017)</li> </ul>	Independent Study	2016	Louis Katz School of Medicine, Temple University, M.D. Program
<ul> <li>Luke Marra (B.S.</li> <li>Chemical</li> <li>Engineering, 2016)</li> </ul>	Independent Study	2015 – 2016	Process Engineer, Jacobs
<ul> <li>Oleg</li> <li>Semenchenko</li> <li>(B.S. Chemical</li> <li>Engineering, 2016)</li> </ul>	Independent Study	2015 - 2016	Senior Process Engineer, Qiagen
<ul> <li>Jeremy Mattison</li> <li>(B.S. Biochemistry and Molecular</li> <li>Biology, 2016)</li> </ul>	Provosťs Undergraduate Research Award	January, 2014 – May 2016	Deceased (Formerly Chemist, Naval Air Station, Patuxent River)
<ul> <li>Eric Wolfson,</li> <li>Ph.D. (B.S.</li> <li>Chemistry, 2015)</li> </ul>	Independent Study	January, 2014 – May, 2015	Synthetic Chemist, Dupont
<ul> <li>Ahmed</li> <li>Gahalrasoul (B.S.</li> <li>Chemistry 2014)</li> </ul>	Independent Study	2012 - 2014	Senior Consultant, Deloitte

Name	Research Project	Dates	Current Position (where known)
<ul> <li>Margaret Gillan</li> <li>(B.S. Chemistry, 2013)</li> </ul>	Independent Study	2012 - 2013	Graduate Student, Rowan University
<ul> <li>Will Bogen (B.S. Chemistry, 2011)</li> </ul>	Provost's Undergraduate Research Award	2010 - 2011	Quanlity Assurance Technician, McCormick & Company
<ul> <li>Robby Tietz (B.S.</li> <li>Chemical</li> <li>Engineering, 2012)</li> </ul>	Provost's Undergraduate Research Award	2011 - 2012	Area Manager, Nalco Champion
<ul> <li>Lisa George (B.S. Biochemistry and Molecular Biology, 2010)</li> </ul>	Independent Study	2009 - 2010	Adjunct Instructor, Madison Area Technical College
<ul> <li>Joy Ihekweazu,</li> <li>Ph.D. (B.S.</li> <li>Chemistry, 2009)</li> </ul>	MARC U*STAR Scholar	2007 - 2009	Principle Chemist, Savanna River Mission Completion
<ul> <li>Mattew Loftus,</li> <li>M.D. (B.S.</li> <li>Chemistry, 2007)</li> </ul>	Provosťs Undergraduate Research Award	2006 - 2007	Physician, Medstar Family Choice
<ul> <li>Nam-Phuong</li> <li>Nguyen (B.S.</li> <li>Chemistry, 2007)</li> </ul>	Independent Study	2006 - 2007	
– Melissa (Buckheit) Moskunas (B.S. Chemistry, 2002)	Independent Study	2001 - 2002	Superisory Chemisty, U.S. Army CCDC, Chemical Biological Center
<ul> <li>Bevlynn Joseph (B.S. Chemistry, 2001)</li> </ul>	NIH Initiative for Minority Student Development	June – August, 2001	
<ul> <li>Albert DeFusco,</li> <li>Ph.D. (B.S.</li> <li>Chemistry, 2001)</li> </ul>	Independent Study	June – August, 2001	Data Scientist, Product at Anacoda
<ul> <li>Megan Brelsford (B.S. Chemical Engineering, 2001)</li> </ul>	Independent Study	June – August, 2001	Senior Systems Analyst, Man-

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Name	Research Project	Dates	Current Position (where known)
			Machine Systems Assessment
<ul> <li>Heather Couvillon (B.S. Chemical Engineering, 2001)</li> </ul>	Independent Study	January – August, 2001	President and CEO, Lufborrow & Company
<ul> <li>Khine Swe (B.S.</li> <li>Biochemistry and</li> <li>Molecular Biology,</li> <li>2001)</li> </ul>	Independent Study	January – June, 2001	
<ul> <li>Maridel Lares</li> <li>(B.S. Chemistry, 2001)</li> </ul>	Independent Study	January – May, 2001	Technical Writer, Hamamatsu
<ul> <li>Amanda Rostkowski,</li> <li>M.D./Ph.D. (B.S. Chemistry, College of Notre Dame, 2001)</li> </ul>	NIH Initiative for Minority Student Development	June – August, 2000	Obstetrician- Gynecologist, Women's Health Connecticut
<ul> <li>Brian Collins (B.S.</li> <li>Chemical</li> <li>Engineering, 2000)</li> </ul>	Independent Study	1999 - 2000	
<ul> <li>Mehdi Rezakhan (B.S. Chemistry, 2000)</li> </ul>	Independent Study	1999 - 2000	
<ul> <li>Theresa Doyel (B.S. Chemisty, 1999)</li> </ul>	Independent Study	1997 - 1998	
<ul> <li>Shannon (Frost)</li> <li>Hoffman (B.S.</li> <li>Chemistry, 1999)</li> </ul>	Independent Study	1998	Regional Director of Operations and Certifying Chemist, Steep Hill
<ul> <li>Aleeza Kersey</li> <li>(B.S. Chemistry, 1998)</li> </ul>	Meyerhoff Scholar	1997	
<ul> <li>Than Tan (B.S.</li> <li>Chemistry, 1998)</li> </ul>	Indepenent Study	1997	

## High School Students Mentored

Name	Dates	Current Position
<ul> <li>Harini Radhakrishnan (McDonogh School, MD)</li> </ul>	Summer 2014	Ph.D. Student/NSF Graduate Fellow, Physics and Astronomy, University of Tennessee Knoxville
<ul> <li>Joshua Baney</li> <li>(Landsdowne High School, MD)</li> </ul>	Summer, 2014	Emergency Health Services B.S. program, UMBC

## PUBLICATIONS AND PRESENTATIONS

UMBC <sup>U</sup>Undergraduate; <sup>G</sup>Graduate student; <sup>P</sup>Post-doctoral trainee () Primary Author; \* Corresponding author

## Peer-Reviewed Works

## Book Chapters (Peer-Reviewed by Editors):

- Kelly, L. A., "4-Amino-1,8-Naphthalimides and Related Species." In *The Chemistry of Nitrogen-Rich Functional Groups, Volume 2*; Greer, A. and Liebman, J. F., Eds.; PATAI's Chemistry of Functional Groups, *Accepted May 13, 2022*.
- (Chandrasekharan, N.)<sup>P</sup>, Kelly, L. A.\*, "Progress Towards Fluorescent Molecular Thermometers," In *Reviews in Fluorescence 2004*, Geddes, C. D., Editor, 2004, 21-40.

## Journal Articles/Conference Proceedings:

- (Kulisiewicz, A. M.), (Garibay, S. J.), (Pozza, G.)<sup>U</sup>, Browe, M. A., Sparr, O.<sup>U</sup>, Singh, Sukvar<sup>U</sup>, Kelly, L. A.\*, DeCoste, J. B.\*, "Enhanced Singlet Oxygen Generation Under Ultraviolet and Visible Light by Metal-Organic Frameworks via Functionalization of Pyrene Containing Linkers," *Appl. Mater. Interaces*, 2023, XXX, XXX-XXX. *https://doi.org/10.1021/acsami.3c06011*
- (Setera, B.)<sup>\*U</sup>, Su, C,-H.<sup>U</sup>, Arnold, B. R., Choa, F,-S., Kelly, L., Sood, R.<sup>U</sup>, Singh, N. B., "Comparative Study of Bulk and Nanoengineered Doped ZnSe," *Crystals*, 2022, *12*, 71-79. *https://doi.org/10.3390/cryst12010071*
- 3. (Singh, A.U.), Machuga, K. S., Prasad, H., Mandal, K.,\* **Kelly, L.**, Arnold, B., Choa, F. –S., Cullum, B., Austin, G., Singh, N. B., "Dissolution of Kidney Stones; Nano

and Micro Morphologies Developed During Remelting," *Curr. Res. Mat. Chem,* **2022**, *3*, 113. *https://doi.org/10.33790/crmc1100113* 

- (Kelly, L. A.)\*, Roll, M.<sup>G</sup>, Joseph, J., Seenisamy, J., Barrett, J., Kauser, K., Warner, K. S., "Solvent-Dependent Photophysics and Reactivity of Monomeric and Dimeric 4-Amino-1,8-Naphthalimides," *J. Phys. Chem., A.*, 2021, 125, 2294 – 2307. *https://doi.org/10.1021/acs.jpca.0c11639*
- Emge, I.<sup>U</sup>, Scheurer, L.<sup>G</sup>, Grant, R.<sup>G</sup>, Prasad, N, Kelly, L., Arnold, B., Choa, F. -S., Setera, B.<sup>U</sup>, Singh, N. B., "Surface Characteristics of Polymer Nanocomposites," *Proc. SPIE – Soc. Opt. Eng.*, 2021, 11757, 117570X1-117570X4. *https://doi.org/10.1117/12.2585834*
- Emge, I.<sup>U</sup>, Kazal, D.<sup>G</sup>, Cooper, C.<sup>G</sup>, Sood, R.<sup>U</sup>, Saraf, S.<sup>U</sup>, Su, C. H.<sup>U</sup>, Cullum, B., Choa, F.-S., Arnold, B. R., **Kelly, L.**, Singh, N. B., "Optimization of Sensor Materials Using Physical Vapor Transport Growth Method," *Proc. SPIE – Soc. Opt. Eng.*, **2021**, *11757*, 1175700. *https://doi.org/10.1117/12.2586081*
- (Sova, S.)<sup>G</sup>, Kelly, L. A.\*, "Formation and Reaction Kinetics of Biradicals and Triplet States in a Series of Carboxylated 1,4,5,8-Naphthalene Diimides," *J. Phys. Chem., A.* 2020, 124, 7453-7463. https://doi.org/10.1021/acs.jpca.0c06639
- (Hopanna, M.)<sup>G</sup>, Kelly, L., Blaney, L.\*, "Photochemistry of the Organoselenium Compound Ebselen: Direct Photolysis and Reaction with Active Intermediates of Conventional Reactive Species Sensitizers and Quenchers," *Environ. Sci. Technol.*, 2020, 54, 11271-11281. https://doi.org/10.1021/acs.est.0c03093
- Emge, I.<sup>U</sup>, Su, C.<sup>U</sup>, Sood, R.<sup>U</sup>, Arnold, B., Choa, F. -S., Kelly, L., Mandel, K. D., Verman, Manish K., Singh, N. B., "Chemical and Biological Sensing Using Polarity of Material", *Proc. SPIE – Soc. Opt. Eng.*, 2020, 11416, 1141610. *https://doi.org/10.1117/12.2563877*
- (Singh, N.B.), Su, C.,-H.<sup>U</sup>, Choa, F. -S., Arnold, B., Cooper, C.<sup>G</sup>, Cullum, B., Kelly, L., "Morphology and Performance of Organic Nanocomposites for γ-Ray Sensing," *Emerging Mater. Res.*, 2020, 9, 520 526. https://doi.org/10.1680/jemmr.18.00050
- 11. (Setera, B.)<sup>U</sup>, Arnold, B., Choa, F.-S., Kelly, L., Emge, I.<sup>U</sup>, Su, C.<sup>U</sup>, Machuga, K. S.; Singh, N. B., "Design and Measurement of n for the Multicomponent Semiconductor," *Proc. SPIE Soc. Opt. Eng.*, 2020, 11498, 1149803. *https://doi.org/10.1117/12.2566997*
- 12. (Sova, S.)<sup>G</sup>, **Kelly, L.A.\***, "Enzyme Modification and Oxidative Cross-linking Using Carboxylate-, Phenol- and Catechol-Conjugated 1, 8-Naphthalimides," *Photochem. Photobiol.*, **2019**, *95*, 1169 1178. *https://doi.org/10.1111/php.13110*
- Singh, N. B.\*, Su, C. –H.<sup>U</sup>, Cullum, B., Arnold, B., Choa, F. –S., Kelly, L., Sova, S.<sup>G</sup>, Cooper, C.<sup>G</sup>, "Morphological and Optical Characteristics of Transition Metal Doped PVT Grown Zinc Selenide Single Crystal", *Cryst. Res. Technol.*, 2019, *54*, 180023. *https://doi.org/10.1002/crat.201800231*

- 14. (Sova S.)<sup>G</sup>, Prasad, N.\*, Cooper, C.<sup>G</sup>, Kelly, L., Arnold, B., Cullum, B., Choa, F. S, Singh, N. B., "Importance of Lotus Effect on Surface Sensing," *Proc. SPIE Soc. Opt. Eng.*, 2019, 11020, 1102005. https://doi.org/10.1117/12.2519738
- McAdams, J.<sup>G</sup>, Bowman, E.<sup>G</sup>, Cullum, B., Arnold, B., Kelly, L., Choa, F. –S., Singh, N. B., Su, C. H.<sup>U</sup>, Mandal, K. D., Singh, S., "Effect of Processing on Morphology of Hydroxyapatites: Bioactive Glasses and Crystalline Composites," *Proc. SPIE – Soc. Opt. Eng.*, 2019, *11020*, 1102006. *https://doi.org/10.1117/12.2516042*
- 16. (Anderson, E. D.), Sova, S.<sup>G</sup>, Ivanic, J., Kelly, L., Schnermann, M. J.\*, "Defining the Conditional Basis of Silicon Phthalocyanine Near-IR Ligand Exchange," *Phys. Chem. Chem. Phys.*, 2018, 20, 19030 19036. *https://doi.org/10.1039/C8CP03842B*
- 17. Prasad, N. S.\*, Sova, S.<sup>G</sup>, Kelly, L., Bevan, T.<sup>U</sup>, Arnold, B., Cooper, C.<sup>G</sup>, Choa, F. –S., Singh, N. B., "Optical Characteristics of Novel Bulk and Nanoengineered Laser Host Materials," *Proc. SPIE Soc. Opt. Eng.*, 2018, 10533, 1053320. *https://doi.org/10.1117/12.2295994*
- Singh, N. B., Su, C. H.<sup>U</sup>, Arnold, B., Choa, F. –S., Cooper, C.<sup>G</sup>, Sova,S.<sup>G</sup>, Gill, P.<sup>U</sup>, Dayal, V.<sup>U</sup>, **Kelly, L.**, Prasad, N., Smith, P., Cullum, B., "Effect of Additives: Organic-Metal Oxide Nanocomposites for γ-ray Sensors," *Proc. SPIE – Soc. Opt. Eng.*, **2018**, *10629*, 106290D. *https://doi.org/10.1117/12.2301084*
- Bhavsar, J.<sup>U</sup>, Tufail, A.<sup>U</sup>, Gautam, P.<sup>U</sup>, Arnold, B., Choa, F. –S., Kelly, L., Cullum, B., Smith, P., Su, C. H.<sup>U</sup>, Mandal, K. D., Singh, N. B., "Design and Characteristics of Hydroxyapatites: Effect of Radiation," *Proc. SPIE – Soc. Opt. Eng.*, 2018, 10662, 1066205. https://doi.org/10.1117/12.2301032
- 20. Razdan, V.<sup>U</sup>, Singh, A., Arnold, B., Choa, F. -S., **Kelly, L**., Singh, N. B., "Effect of Organic Flux on the Colossal Dielectric Constant of CaCu<sub>3</sub>Ti<sub>4</sub>O<sub>12</sub> (CCTO)," *Proc. SPIE Soc. Opt. Eng.*, **2015**, *9493*, 949308. *https://doi.org/10.1117/12.2177694*
- 21. (Manning, S. J.)<sup>G</sup>, Bogen, W.<sup>U</sup>, Kelly, L. A.\*, "Synthesis, Characterization, and Photophysical Study of of Fluorescent N-Substituted Benzo[ghi]perylene 'Swallow Tail' Monoimides," *J. Org. Chem.*, 2011, 76, 6007-6013. https://doi.org/10.1021/jo200529p
- 22. (Trexler, M. M.)\*, Zhang, D., Kelly, L. A., Sample, J., "Structure and Optical Properties of Lanthanide-Doped Zirconia Nanoparticles," *J. Mater. Res.*, 2010, 25, 500-509. https://doi.org/10.1557/JMR.2010.0071
- 23. Arnold, B.\*, Kelly, L.\*, (Oleske, J. B.)<sup>G</sup>, Schill, A.<sup>U</sup>, "Standoff Detection of Nitrotoluenes Using 213-nm Amplified Spontaneous Emission from Nitric Oxide," *Anal. Bioanal. Chem.*, 2009, 395, 349-355. *https://doi.org/10.1007/s00216-009-2990-7*
- 24. Breidenich, J., Patrone, J., **Kelly, L.**, Benkoski, J., Le, H., Sample, J., "Chemiluminescent Solid Lipid Nanoparticles (SLN) and Interactions with Human

Skin," *SPIE* – *Soc. Opt. Eng.*, **2009**, 7397, 73970L. *https://doi.org/10.1117/12.826397* 

- 25. Schill, A. W.<sup>U</sup>, Arnold, B. R., Kelly, L. A., Pellegrino, P. M., "Standoff Detection using Coherent Backscattered Spectroscopy," *Proc. SPIE – Soc. Opt. Eng.*, 2007, 6554, 6554G. *https://doi.org/10.1117/12.722309*
- 26. (McMasters, S.)<sup>G</sup>, **Kelly, L. A.\***, "Sequence-Dependent Interactions of Cationic Naphthalimides and Polynucleotides," *Photochem. Photobiol.*, **2007**, *83*, 889 896. *https://doi.org/10.1111/j.1751-1097.2007.00155.x*
- 27. (McMasters, S.)<sup>G</sup>, **Kelly, L. A.\***, "Ground-State Interactions of Spermine-Substituted Naphthalimides with Mononucleotides," *J. Phys. Chem. B*, **2006**, *110*, 1046-1055. *https://doi.org/10.1021/jp0551061*
- 28. Kelly, L. A., Ullrich, S., "Symposium in Print: UV Effects on Aquatic and Coastal Ecosystems," *Photochem. Photobiol.* **2006**, *82*, III-III.
- (Kimaro, A.)<sup>G</sup>, Kelly, L. A., Murray, G. M.\*, "Synthesis and Characterization of Molecularly Imprinted Uranyl Ion Exchange Resins," *Sep. Sci. Technol.*, 2005, 40, 2035–2052. https://doi.org/10.1081/SS-200068451
- 30. (Abraham, B.)<sup>G</sup>, McMasters, S.<sup>G</sup>, Mullan, M.<sup>U</sup>, Kelly, L. A.\*, "Reactivities of Carboxyalkyl-Substituted 1,4,5,8-Naphthalene Diimides in Aqueous Solution," *J. Am. Chem. Soc.*, 2004, 126, 4293 – 4300. *https://doi.org/10.1021/ja0389265*
- 31. (Abraham, B.)<sup>G</sup>, Kelly, L. A.\*, "Photo-oxidation of Amino Acids and Proteins Mediated by Novel 1,8-Naphthalimide Derivatives," *J. Phys. Chem. B*, 2003, 107, 12534 – 12541. https://doi.org/10.1021/jp0358275
- 32. (Chandrasekharan, N.)<sup>P</sup>, **Kelly, L.\***, "Fluorescent Molecular Thermometers Based on Monomer/Excimer Interconversion," *The Spectrum* **2002**, *15*, 1-7.
- (Chandrasekharan, N.)<sup>P</sup>, Kelly, L. A.\*, "A Dual Fluorescence Temperature Sensor Based on Perylene/Exciplex Interconversion," *J. Am. Chem. Soc.* 2001, 123, 9898-9899. https://doi.org/10.1021/ja016153j
- 34. (Rogers, J. E.)<sup>G</sup>, Abraham, B.<sup>G</sup>, Rostkowski, A., Kelly, L. A.\*, "Mechanisms of Photoinitiated Cleavage of DNA by 1,8-Naphthalimide Derivatives" *Photochem. Photobiol.*, 2001, 74, 521-531. *https://doi.org/10.1562/0031-8655(2001)074%3C0521:MOPCOD%3E2.0.CO;2*
- 35. (Rogers, J. E.)<sup>G</sup>, Le, T. P.<sup>G</sup>, Kelly, L. A.\*, "Nucleotide Oxidation Mediated by Naphthalimide Excited States with Covalently Attached Viologen Co-Sensitizers," *Photochem. Photobiol.*, 2001, 73, 223 – 229. https://doi.org/10.1562/0031-8655(2001)073%3C0223:NOMBNE%3E2.0.CO;2
- 36. (Kimaro, A.)<sup>G</sup>, Kelly, L. A., Murray, G. M.\*, "Molecularly Imprinted Ionically Permeable Membrane for Uranyl Ion," *Chem. Comm.* 2001, 1282 – 1283. *https://doi.org/10.1039/B103077A*

- 37. (Le, T. P.)<sup>G</sup>, Rogers, J. E.<sup>G</sup>, **Kelly, L. A.\***, "Photoinduced Electron Transfer in Covalently Linked 1,8-Naphthalimide/Viologen Systems," *J. Phys. Chem. A.* **2000**, *104*, 6778 6785. *https://doi.org/10.1021/jp000855y*
- 38. (Rogers, J. E.)<sup>G</sup>, Weiss, S. J.<sup>G</sup>, Kelly, L. A.\*, "Photoprocesses of Naphthalene Imide and Diimide Derivatives in Aqueous Solution and DNA," *J. Am. Chem. Soc.* 2000, 122, 427 – 436. https://doi.org/10.1021/ja992332d
- (Rogers, J. E.)<sup>G</sup>, Kelly, L. A.\*, "Nucleic Acid Oxidation Mediated by Naphthalene and Benzophenone Imide and Diimide Derivatives: Consequences for DNA Redox Chemistry," J. Am. Chem. Soc. 1999, 121, 3854 - 3861. https://doi.org/10.1021/ja9841299
- 40. (Kelly, L. A.), Trunk, J. G., Sutherland, J. C.\*, "Time-Resolved Fluorescence Polarization Measurements for Entire Emission Spectra with a Resistive-Anode, Single-Photon-Counting Detector: The Fluorescence Omnilyzer," *Rev. Sci. Instrum.*, **1997**, *68*, 2279 – 2286. *https://doi.org/10.1063/1.1148173*
- 41. (Kelly, L. A.), Trunk, J. G., Sutherland, J. C.\*, "Simultaneous Recording of the Spectral, Temporal and Polarization Properties of Emission Spectra," *Proc. SPIE Soc. Opt. Eng.*, (Advances in Fluorescence Sensing Technology III), 1997, 2980, 2 11. *https://doi.org/10.1117/12.273507*
- 42. (Chen, X. G.), Pusheng, L., Holtz, J. S. W., Chi, Z., Pajcini, V., Asher, S. A.\*, Kelly, L. A., "Resonance Raman Examination of the Electronic Excited States of Glycylglycine and Other Dipeptides: Observation of a Carboxylate to Amide Charge Transfer Transition," *J. Am. Chem. Soc.*, 1996, 118, 9705. *https://doi.org/10.1021/ja960421+*
- 43. (Kelly, L. A.), Trunk, J. G., Polewski, K., Sutherland, J. C.\*, "Simultaneous Resolution of Spectral and Temporal Properties of UV and Visible Fluorescence Using Single-Photon Counting with a Position-Sensitive Detector," *Rev. Sci. Instrum.*, 1995, 66, 1496 – 1498. *https://doi.org/10.1063/1.1145953*
- 44. **(Kelly, L. A.)**, Rodgers, M. A. J.\*, "Inter- and Intramolecular Oxidative Quenching of Mixed Ligand Tris(bipyridyl)ruthenium(II) Complexes by Methyl Viologen," *J. Phys. Chem.*, **1995**, *99*, 13132-13140. *https://doi.org/10.1021/j100035a015*
- 45. (Kelly, L. A.), Rodgers, M. A. J.\*, "Reductive Quenching of Novel Mixed-Ligand Tris(bipyridyl)ruthenium(II) Complexes in Aqueous Solution and Inert Colloidal Suspensions," J. Phys. Chem., 1994, 98, 6377-6385. https://doi.org/10.1021/j100076a023
- 46. (Kelly, L. A.), Rodgers, M. A. J.\*, "Photoreduction of Methyl Viologen Mediated by Tris(bipyridyl)ruthenium(II) in Inert Colloidal Suspensions," J. Phys. Chem., 1994, 98, 6386-6391. https://doi.org/10.1021/j100076a024
- 47. (Smith, R. F.)\*, **Dennis, L. A.**, Ryan, W. J., Rodriguez, G., Brophy, K. A., "Amidrazones. 14. The formation of 1,1-disubstituted hydrazines from the base-

promoted hydrolysis of 1,1-disubstituted-3-amino-4,5-dihydro-1H-pyrazolium halides: mechanistic considerations," *J. Heterocycl. Chem.*, **1992**, 29, 181-183. *https://doi.org/10.1002/jhet.5570290133* 

- 48. (Smith, R. F.)\*, Brophy, K. A., Rodriguez, G., Dennis, L. A., Ryan, W. J. "Amidrazones. 13. A convenient method for the preparation of 1-alkyl-1methylhydrazines," *Synth. Commun.*, 1990, 20, 183-188. *https://doi.org/10.1080/00397919008052282*
- 49. (Povlock, S. L.), **Dennis, L. A.**, Geiger, D. K.\*, "The effect of mixed phthalocyanineporphyrin aggregation on the photoreduction of manganese porphyrins," *Inorg. Chim. Acta*, **1990**, *176*, 295-298. *https://doi.org/10.1016/S0020-1693(00)84859-8*
- 50. (Smith, R. F.)\*, Augustine, B. H., Dennis, L. A., Ryan, W. J., Liptak, S. C.; Capparelli, B. R. "Amidrazones. 12. Formation of 3-acylamino-4,5-dihydro-1,1dimethyl-1H-pyrazolium salts by acid-promoted cyclization of N3-acylated derivatives of acrylamide dimethylhydrazone and (E)-cinnamamide dimethylhydrazone," J. Heterocvcl. Chem., 1989. 26, 141-143. http://dx.doi.org/10.1002/jhet.5570260126
- 51. (Smith, R. F.)\*, **Dennis, L. A.**, Ryan, W. J., "Amidrazones. 11. Rearrangement of 1-allyl-substituted-4,5-dihydro-1-methyl-1H-pyrazolium bromides," *J. Heterocycl. Chem.*, **1988**, 25, 415-417. *https://doi.org/10.1002/jhet.5570250212*

## Presentations (Presenting Author in Parenthesis when Multiple Authors)

## Invited Oral Presentations (Juried National/International Conferences)

- Kelly, L. A.\*, "Environmentally-Mediated Photochemistry of 4-Amino-1,8-Naphthalimides," Ohio Photochemical Society Meeting- Photons for the Public Good, Maumee Bay, OH, July 10, 2023.
- (Grant, R.<sup>G</sup> as Urbach Travel Award recipient), Kelly, L. A.\*, "4-Amino 1,8-Naphthalimides as Potential Photo-Induced Protein Crosslinkers," 41<sup>st</sup> American Society for Photobiology Biennial Meeting, Albuquerque, NM, September 25 – 28, 2022.
- (Kelly, L. A.)\*, Sova, S.<sup>G</sup>, "Biradical Formation and Reactivity in 1,4,5,8-Naphthalene Diimide-Carboxylate Conjugates," Mid-Atlantic Regional Meeting of the American Chemical Society, Baltimore, MD, June 1, 2019.
- 4. **Kelly, L. A.\***, (Sova, S.<sup>G</sup> ASP Travel Award Recipient), "*Photooxidative Crosslinking and Affinity Labeling of Proteins Using Naphthalene Imides*," Biennial Meeting of the American Society for Photobiology, Tampa, Florida, May 22, 2016.
- 5. (Manning, S.<sup>G</sup>), **Kelly, L. A.**\*, "*Synthesis and Polarity Sensing with Benzo[ghi]perylene Monoimides*," 43<sup>rd</sup> American Chemical Society Mid-Atlantic Regional Meeting, Baltimore, MD, June 2, 2012.

- (Manning, S.<sup>G</sup> 1<sup>st</sup> Place Presentation Winner), George, L.<sup>U</sup>, Zukowski, E.<sup>G</sup>, Kelly, L. A.\*, "Development of Fluorescent Temperature-Responsive Nanogels," 1<sup>st</sup> Annual Nanomaterials Symposium, Johns Hopkins Applied Physics Laboratory, Laurel, MD, March, 2010.
- (Kelly, L. A.)\*, Arnold, B. R.\*, Oleske, J.<sup>G</sup>, Schill, A.<sup>G</sup>, "Coherent 'BASE' for Detection of Energetic Vapors," Office of Naval Research Program Review, Austin, TX, February, 2009.
- 8. (Kelly, L. A.)\*, Collins, B.\*, Arnold, B. R.\*, Schill, A.<sup>U</sup>, "Stand-Off Detection of Energetic Materials Using Back-Scattered Coherent Spectroscopy," Counter-IED Program Review, Washington, D.C., February 11, 2008.
- Kelly, L. A., "Applications of Spectroscopy in Sensor and Smart Polymer Technologies" 18<sup>th</sup> Winter Conference of the Inter-American Photochemical Society Meeting, St. Petersburg, Florida, January 2 - 5, 2007.
- 10. Kelly, L. A., "Thermal Imaging and Smart Packing the Photophysics Way," Presidential Lecture, 33<sup>rd</sup> Annual Meeting of the American Society for Photobiology, Rio Grande, Puerto Rico, July 8 – 12, 2006.
- 11. **Kelly, L. A.**, "*Ground- and Excited-State Interactions of Spermine-Substituted 1,8-Naphthalimides with Nucleic Acids*," 17<sup>th</sup> Annual Meeting of the Inter-American Photochemical Society, Salvador, BRAZIL, June 12 - 15, 2006.
- 12. Kelly, L. A., "Experimental Approaches to Mapping DNA and Protein Interactions Using Naphthalimide Photochemistry," Travel grant awardee, NSF-Sponsored Workshop on the Interplay of Theory and Experiment in Photochemistry, Salvador, BRAZIL, June 10, 2006.
- Kelly, L. A., "Temperature-Dependent Photophysics of Fluorescent Polymers," 16<sup>th</sup> Winter Conference of the Inter-American Photochemical Society, Clearwater Beach, FL, January 2 – 5, 2005.
- 14. **(Kelly, L. A.)\***, Abraham, B.<sup>G</sup>, Mullen, M.<sup>U</sup>, "*Probing Protein Structure and Interactions Using Photochemistry*," Frontiers in Photobiology Symposium at the American Chemical Society Meeting, Washington, DC, August 28, 2005.
- 15. **Kelly, L. A.,** *"Temperature-Dependent Photophysics of Styrene and Acrylamide-Based Polymers,"* Supramolecular Photochemistry Symposium, Pacifichem, Honolulu, Hawaii, December 15 – 20, 2005.
- 16. (Kelly, L. A.)\*, Abraham, B.<sup>G</sup>, McMasters, S.<sup>G</sup>, Mullen, M.<sup>U</sup>, "Probing Protein Structure and Interactions Using Functionalized Naphthalimides," 32nd Annual Meeting of the American Society for Photobiology, Seattle, WA, July 10 - 14, 2004.
- 17. (Chandrasekharan, N.)<sup>P</sup>, Kelly, L. A.\*, "Kinetics and Thermodynamics of Exciplex Formation in Polymeric Films," 31st Annual Meeting of the American Society for Photobiology, Baltimore, MD, July 5 – 9, 2003.

- Kelly, L. A., "A Temperature Sensitive Luminophoric Polymer Film," Office of Naval Research Turbulence/Wakes Program Review, Washington, DC, October 15 -16, 2002.
- 19. **Kelly, L. A.,** *"Kinetics and Thermodynamics of Exciplex Formation in Polymeric Films*," Electron Donor-Acceptor Gordon Conference, Newport, RI, August 11 16, 2002.
- Kelly, L. A., "Kinetics and Thermodynamics of Exciplex Formation in Polymeric Films," 13<sup>th</sup> Winter Conference of the Inter-American Photochemical Society, Tempe, AZ, January 2 – 5, 2002.
- 21. Kelly, L. A., "Dual Luminescent Polymers as Temperature and Pressure Sensors," 12<sup>th</sup> Inter-American Photochemical Society Conference, Ascochinga, Cordoba, ARGENTINA, May 20 - 25, 2001.
- 22. **Kelly, L. A.,** "*Imide and Diimide Excited States as Diverse Reagents in the Photocleavage of DNA*," 11<sup>th</sup> Winter Conference of the Inter-American Photochemical Society, Clearwater Beach, FL, January 2 6, 2000.
- 23. **Kelly, L. A.**, "*Photoinduced Oxidation of Nucleic Acid Bases by Imide and Diimide Electron Acceptors*," 26<sup>th</sup> Annual Meeting of the American Society for Photobiology, Snowbird, UT, July, 1998.

## **Invited Seminars and Symposia**

- 1. **Kelly, L. A.,** *"Alumni Career Perspectives,"* State University of New York at Geneseo Alumni Networking Series, SUNY Geneseo, Geneseo, NY, April 11, 2022.
- 2. **Kelly, L. A.**, *"Alumni Journeys*," State University of New York at Geneseo Alumni Networking Series, SUNY Geneseo, Geneseo, NY, April 14, 2021.
- 3. **Kelly, L. A.,** *"Photochemical Probes of Macromolecular Structure,"* Millersville University, Millersville, PA, November 9, 2020
- 4. Kelly, L. A., "*Photochemical Probes of Macromolecular Structure*," Hood College, Frederick, MD, October 24, 2019.
- 5. **Kelly, L. A.,** "*Spectroscopy and Material Science for NAVAIR Applications*" NAVAIR Materials Engineering Division, Patuxent River, MD, February, 2018.
- 6. **Kelly, L. A.,** *"Photochemical Probes of Macromolecular Stucture,"* Salisbury University, Salisbury, MD, March 1, 2017.
- Kelly, L. A., "Benzo[ghi]peryelene Monoimide Dyes as Fluorescent Probes of Stimuli-Responsive Polymers," National Institute of Standards and Technology, Gaithersburg, MD, January 12, 2015.
- 8. Kelly, L. A., "Smart Materials," Becton Dickinson, Sparks, MD, January 1, 2014.

- 9. **(Kelly, L. A.)**\*, Arnold, B. R.\*, *"Remote Biometrics Using Optical Signatures,"* Johns Hopkins Applied Physics Laboratory, Laurel, MD, June 6, 2008.
- 10. **(Kelly, L. A.)\***, Arnold, B. R.\*, Collins, B., Schill, A.<sup>U</sup>, "*Photochemistry for DoD Applications*," Johns Hopkins Applied Physics Laboratory, Laurel, MD, January 15, 2008.
- 11. **Kelly, L. A.,** *"Probing Protein Structure and Interactions Using Photochemistry,"* Cherry Emerson Seminar Series, Georgia Institute of Technology, Atlanta, GA, November 15, 2005.
- 12. **(Kelly, L. A.)\***, Chandrasekharan, N.<sup>P</sup>, Farivar, B.<sup>G</sup>, "*Developing Fluorescent Polymers for Temperature-Sensing Applications*," Rohm and Haas, Philadelphia, PA, October 6, 2005.
- 13. **Kelly, L. A.,** "*Optical Spectroscopy at UMBC: From Energetic Vapors to DNA*," State University of New York at Geneseo, Geneseo, NY, November 6, 2009.
- 14. **Kelly, L. A.,** "*Surviving and Thriving in STEM*," National Science Foundation, University of Maryland, Baltimore County, ADVANCE Faculty Horizons Workshop for Aspiring STEM Faculty, Baltimore, MD, July 16, 2005.
- 15. **Kelly, L. A.,** *"Probing Protein Structure and Interactions Using Photochemistry,"* Johns Hopkins University, Baltimore, MD, March 2, 2004.
- 16. Kelly, L. A., "Using Photochemistry to Probe DNA and Protein Structures," Department of Chemistry, Towson University, Towson, MD April 1, 2003.
- 17. **Kelly, L. A.,** *"Using Photochemistry to Probe Macromolecular Structure and Interactions,"* Department of Biological Sciences, University of Maryland, Baltimore County, Baltimore, MD, April 23, 2003.
- Chandrasekharan, N.<sup>P</sup>, (Kelly, L. A.)\*, "Fluorescent Temperature Sensor Based on Interconversion between Perylene and its Excited State Complex with Derivatized Aniline," 9th Annual Pressure Sensitive Paints Workshop, Washington, DC, April 7 - 11, 2002.
- 19. Kelly, L. A., "Developing Organic Photosensitizers to Probe Macromolecular Structure and Dynamics," Center for Photochemical Sciences, Bowling Green State University, Bowling Green, OH, March, 2001.
- 20. Kelly, L. A., "Developing Organic Photosensitizers to Probe Macromolecular Structure and Dynamics," University of Maryland, College Park, College Park, MD, February, 2001.
- 21. **Kelly, L. A.**, "*Probing Macromolecular Structure and Dynamics Using Photoactivated Organic-Inorganic Conjugates*," The Ohio State University, Columbus, OH, February, 2001.

- 22. Kelly, L. A., "Developing Organic Photosensitizers to Probe Macromolecular Structure and Dynamics," University of Wiscosin, School of Pharmacy, Madison, WI, November, 2000.
- 23. Kelly, L. A., "*Light-Activated Artificial Nucleases*," Loyola College, Baltimore, MD November, 1999.
- 24. Kelly, L. A., "Mediating DNA Photooxidation by the Excited States of Aromatic Imide and Diimide Compounds," Georgetown University, Washington, DC, November, 1999
- 25. Kelly, L. A., "*The Role of Redox Reactions in DNA and RNA Cleavage*" University of Windsor, Windsor, Ontario, December 1998.
- 26. Kelly, L. A., "The Role of Photoredox Reactions in DNA and RNA Cleavage," Howard University, Washington, D.C., October, 1998.
- 27. Kelly, L. A., "Artificial Photonucleases: Getting More Bang from Your Photons," Western Maryland College, Westminster, MD, November, 1997.
- 28. **Kelly, L. A.,** *"Artificial Photonucleases: Getting More Bang from Your Photons,"* Presented at Washington College, Chestertown, MD, November, 1997.

### Select Conference Presentations (Juried/Refereed) (S(O) or (P) = Student (Oral) or (Poster) Presentation)

- (Thompson, A.)<sup>U</sup>, (Holm, M.)<sup>U</sup>, Pozza, G. R.<sup>G</sup>, Singh, S.<sup>U</sup>, Kelly, L.\*, Garibay, S. J., Decoste, J., *"Quantifying Singlet Oxygen Production from Different MOF Catalysts,"* Summer Undergraduate Research Fest 2023, University of Maryland, Baltimore County, August 9, 2023. S(P)
- (McKee, A.)<sup>U</sup>, (Sulehria, A.)<sup>U</sup>, Grant, R.<sup>G</sup>, Kelly, L. A.\*, "Photodegradable Cross-Linked Nanogels," ACS Crossroads of Chemistry, Indianapolis, IN, March 28, 2023. S(P)
- (Singh, S.)<sup>U</sup>, Pozza, G. R., Kelly L.\*, Sparr, O.<sup>G</sup>, Decoste, J., Kulisiewicz, A. M., Browe, M. A., Garibay, S. J., *"Spectral Analaysis of MOFs for Decomposition of Chemical Warfare Agents,"* ACS Crossroads of Chemistry, Indianapolis, IN, March 28, 2023. S(P)
- (Conte, M.)<sup>G</sup>, (Grant, R.)<sup>G</sup>, Kelly, L. A.\*, "Solvent, Substituent and Temperature-Dependent Fluorescence of 4-Amino-1,8-Naphthalimides," 6<sup>th</sup> Annual Chemistry and Biochemistry Graduate Research Day, University of Maryland, Baltimore County, March 3, 2023. S(P)
- (Grant, R.)<sup>G</sup>, Conte, M.<sup>G</sup>, Kelly, L. A.\* "4-Amino-1,8-naphthalimides as Potential Photo-induced Protein Crosslinkers," 30<sup>th</sup> Winter Conference of the Inter-American Photochemical Society, Miramar Beach, FL, January 5, 2023. S(P)

- (Pozza, G. R.), (Singh, S.)<sup>U</sup>, Sparr, O.<sup>G</sup>, Kelly, L. A., Garibay, S., Kulisiewicz, A. M., Browe, M. A., DeCoste, J. *"Spectral Analaysis of MOFs for Decomposition of Chemical Warfare Agents,"* 30<sup>th</sup> Winter Conference of the Inter-American Photochemical Society, Miramar Beach, FL, January 5, 2023. S(P)
- (Grant, R.)<sup>G</sup>, Kelly, L. A.\*, "Solvatochromic Dyes as Protein Crosslinkers," 5th Annual Chemistry and Biochemistry Graduate Research Day, University of Maryland, Baltimore County, March 4, 2022. S(P)
- (Grant, R.)<sup>G</sup>, Kelly, L. A.\*, "Solvatochromic Dyes as Protein Crosslinkers," 4th Annual Chemistry and Biochemistry Graduate Research Day, University of Maryland, Baltimore County, March 5, 2021. S(P)
- (Grant, R.)<sup>G</sup>, Kelly, L. A.\*, "Solvatochromic Dyes as Protein Crosslinkers," 3rd Annual Chemistry and Biochemistry Graduate Research Day, University of Maryland, Baltimore County, March 6, 2020. S(P)
- (Singh, N.)\*, Choa, F. -S., Arnold, B., Kelly, L. A., Mandal, K., "Transition of Nanomorphology in Ceramic Systems: Multifunctional Ceramics for Energy Storage, Microelectronics, EOIR and Radiation Sensors," 44th International Conference and Exposition on Advanced Ceramics and Composites, Daytona Beach, FL, January 26, 2020. (O)
- 11. (Sachs, D.)<sup>U</sup>, Prasad, N.\*, **Kelly, L. A.**, Singh, N. B., Choa, F-S., Arnold, B. A., *"Self-Cleaning of Aircraft Surfaces Using Nanotechnology*," NASA Langley, Langley, VA, August 8, 2019. S(O)
- 12. (Tzortzakakis, M.),<sup>U</sup> Kelly, L. A.\*, "A Calorimetric Approach To Structure-Reactivity Correlation In Epoxide Crosslinking Reactions," 23<sup>rd</sup> University Research and Creative Achievement Day, University of Maryland, Baltimore County, April 24, 2019. S(P)
- Sova, S.<sup>G</sup>, (Prasad, N.)\*, Cooper, C.<sup>G</sup>, Kelly, L., Arnold, B. R., Cullum, B. M., Choa, F. -S., Singh, N. B., "*Importance of Lotus Effect on Surface Sensing*", SPIE Defense + Commercial Sensing, Baltimore, MD, April 15, 2019. (O)
- McAdams, J.<sup>G</sup>, Bowman, E.<sup>G</sup>, Cullum, B. M., Arnold, B. R., Kelly, L., Choa, F. –S., (Singh, N. B.)\*, "Effect of Processing on Morphology of Hydroxyapatites: Bioactive Glasses and Crystalline Composites," SPIE Defense + Commercial Sensing, Baltimore, MD, April 15, 2019. (O)
- 15. (Dayal, V.)<sup>U</sup>, Singh, N. B., Su, C. –H.<sup>U</sup>, Gill, P.<sup>U</sup>, Lee, B.<sup>U</sup>, Choa, F. –S., Arnold, B., Kelly, L., Cullum, B., "Nanocomposites for Low Dose Gamma-Ray Sensor: Effect of Matrix and Oxidizer on the Performance," SPIE Defense + Commercial Sensing, Baltimore, MD, May 14, 2019. https://doi.org/10.117/12.2517435. S(O)
- (Lucht, B.), Sova, S.<sup>G</sup>, Kelly, L. A.\*, "Synthesis and Characterization of Naphthalimide Dye-Labeled Thermal-Responsive Copolymers," 21<sup>st</sup> Summer Undergraduate Research Fest (SURF), University of Maryland, Baltimore County, August 8, 2018. S(P)

- 17. Kelly, L. A.\*, (Sova, S. Travel Award Recipien and Runner-Up, Gerhard Closs Award)<sup>G</sup>, "Mechanisms of Biradical Initiated Photoaffinity Labeling with Naphthalene Diimides," Winter Conference of the Interamerican Photochemical Society Meeting, St. Petersburg, FL, January 2018. S(P)
- 18. Kelly, L. A.\*, (Sova, S.)<sup>G</sup>, "Mechanism of Photooxidative Crosslinking and Photoaffinity Labeling with Naphthalene Imides and Diimides," Fall National Meeting of the American Chemical Society, Washington, DC, August 2017. S(O)
- (Rodriguez, L.), Sova, S.<sup>G</sup>, Kelly, L. A.\*, "Monitoring Phase Changes in Temperature-Sensitive Polymers using Solvatochromic Fluorophores," 20<sup>th</sup> Summer Undergraduate Research Fest (SURF), University of Maryland, Baltimore County, August 9, 2017. S(P)
- 20. (Pagarigan, K.)<sup>U</sup>, **Kelly, L. A.\***, "*Optimization of Alkyl Radical Synthesis via Photoinduced Decarboxylation,*" 21<sup>st</sup> University Research and Creative Achievement Day, University of Maryland, Baltimore County, April 26, 2017. S(P)
- 21. **Kelly, L. A.**\*, (Sova, S.)<sup>G</sup>, "*Photooxidative Crosslinking and Photoaffinity Labeling with Naphthalene Imides and Diimides*," Graduate Research Conference, University of Maryland, Baltimore County, March 29, 2017. S(O)
- 22. **Kelly, L. A.**\*, (Sova, S.)<sup>G</sup>, "*Photoaffinity Labeling and Photooxidative Crosslinking with Tyrosine-functionalized Naphthalene Imides and Diimides*," University of Maryland, Baltimore County Biotech Symposium, January 27, 2017. S(O)
- 23. (Castillo, E.), Kelly, L. A.\*, "Utilizing Solvatochromic Dyes to Probe Phase Changes in Stimuli Responsive Nanogels," 19<sup>th</sup> Summer Undergraduate Research Fest (SURF), University of Maryland, Baltimore County, August 10, 2016. S(P)
- 24. Kelly, L. A.\*, (Sova, S. ASP Student Travel Award Recipient)<sup>G</sup>, "Photooxidative Crosslinking and Affinity Labeling of Proteins Using Naphthalene Imides," Bienniel Meeting of the American Society for Photobiology, Tampa, Florida, May 22, 2016. S(O)
- 25. **Kelly, L. A.\***, (Sova, S.)<sup>G</sup>, "*Naphthaldiimides as Potential Photoaffinity Labels*," Graduate Research Conference, University of Maryland, Baltimore County, March 23, 2016. S(O)
- 26. Kelly, L. A.\*, Mang, S.\*, (Honick, C.)<sup>U</sup>, (Gibson, B.)<sup>U</sup>, "A Portable Detection Platform for Hypochlorite via Chemiluminescence," University Research and Creative Achievement Day, University of Maryland, Baltimore County, April 22, 2015. S(P)
- 27. **Kelly, L. A.\***, Mang, S.\*, (Schultheis, E.)<sup>U</sup>, (Waris, W.)<sup>U</sup>, "*Briggs-Rauscher Oscillating Color Change Reaction*," 19<sup>th</sup> University Research and Creative Achievement Day, University of Maryland, Baltimore County, April 22, 2015. S(P)
- 28. Kelly, L. A.\*, (Mattison, J.)<sup>U</sup>, "Synthesis of N-Substituted Benzoperylene Monoimide Fluorophores for Incorporation in Polyacrylamide Nanogels," 19<sup>th</sup>

University Research and Creative Achievement Day, University of Maryland, Baltimore County, April 22, 2015. S(P)

- 29. (Sova, S.)<sup>G</sup>, **Kelly, L. A.**\*, "*Naphthalimide Derivatives Selective Interactions with Proteins*," Graduate Research Conference, University of Maryland, Baltimore County, March 25, 2015. S(O)
- 30. (Sova, S.)<sup>G</sup>, Kelly, L. A.\*, "Reactions of Proteins with the Ground and Excited States of Tyrosine (Ni-Tyr) and Alanine (NI-Ala)," The Protein Society Symposium, University of Maryland, Baltimore County, January 14, 2015. S(O)
- 31. Razdan, V.<sup>U</sup>, Arnold, B., Kelly, L. A., (Singh, N. B.)\*, Choa, F-S., Duval, W.<sup>U</sup>, "Effect of Solidification Parameters on the Performance of Energy Storage Materials," The American Ceramic Society at Materials Science and Technology Conference, Pittsburgh, PA., October 12, 2014. (O)
- 32. (Singh, N. B.)\*, Arnold, B., Kelly, L. A., Thomson, D.<sup>U</sup>, Rai, R.<sup>U</sup>, Choa, F-S., "Effect of Impurities on the Solidification Morphology of the AI-Si Alloys in Dynamic Condition," The American Ceramic Society at Materials Science and Technology Conference, Pittsburgh, PA, October 12, 2014. (O)
- 33. (Manning, S.)<sup>G</sup>, Kelly, L. A.\*, "Benzo[ghi]perylene Monoimide-Doped Nanogels as Ratiometric Molecular Thermometers," 24th Winter Conference of the Inter-American Photochemical Society, Sarasota, FL, January 3, 2013. S(P)
- 34. Manning, S.<sup>G</sup>, **Kelly, L. A.**\*, Arthur, J. A.<sup>G</sup>, "*Photophysics and Sensing Applications of Benzo[ghi]perylene Monoimides*," 34<sup>th</sup> Graduate Research Conference, University of Maryland, Baltimore County," April 27, 2012. S(P)
- 35. (Manning, S.)<sup>G</sup>, Bogen, W.<sup>U</sup>, Tietz, R.<sup>U</sup>, Kelly, L. A.\*, "Self-Reporting Fluorescent Nanogels," A Look Ahead XV, University of Maryland, Baltimore County, April 13, 2011. S(P)
- 36. (Manning, S.)<sup>G</sup>, Kelly, L. A.\*, "Polarity Responsive Benzo[ghi]perylene Monoimides and Their Incorporation into Temperature-Responsive Acrylamide Gel Matrices," 33<sup>rd</sup> Graduate Research Conference, University of Maryland, Baltimore County, April 29, 2011. S(P)
- 37. (Bogen, W. 1<sup>st</sup> Place Winner)<sup>U</sup>, Manning, S.<sup>G</sup>, Kelly, L. A.\*, "Synthesis of Swallowtail-Substituted Benzoperylene Monoimides," 13<sup>th</sup> Annual Undergraduate Research Symposium in the Chemical and Biologial Sciences, University of Maryland, Baltimore County, October, 2010. S(P)
- 38. (Manning, S. 1<sup>st</sup> Place Winner)<sup>G</sup>, Bogen, W.<sup>U</sup>, Kelly, L. A.\*, "Development of Fluorescent Temperature-Responsive Nanogels," 32<sup>nd</sup> Graduate Research Conference, University of Maryland, Baltimore County, April 30, 2010. S(P)
- (Ihekweazu, J.), Kelly, L. A.\*, "Self-Reporting Nanogels," 13<sup>th</sup> University Research and Creative Achievement Day, University of Maryland, Baltimore County, April 22, 2009. S(P)

- 40. (Zhang, Y.)<sup>G</sup>, Kelly, L. A.\*, "Exciplex Formation Kinetics in Perylene Imide and Perylene-Poly(N,N'-Dimethylstyrene) Films," 18<sup>th</sup> Winter Conference of the Inter-American Photochemical Society, St. Petersburg, FL, January 3 – 6, 2008. (S)P
- 41. (Zhang, Y.)<sup>G</sup>, Kelly, L. A.\*, "Exciplex Formation Kinetics in Perylene Imides," A Look Ahead XI Futures in Biomedical Research, University of Maryland, Baltimore County, November 14, 2007. (S) P
- (Zhang, Y.)<sup>G</sup>, Kelly, L. A.\*, "Study of Temperature Responsive Fluorescent Polymers", 28th Graduate Research Conference, University of Maryland, Baltimore County, April 28, 2006. S(O).
- 43. **Kelly, L. A.\***, (Abraham, B.)<sup>G</sup>, Mullen, M.<sup>U</sup>, "*Probing Protein Interactions Using Functionalized Naphthalmides*," A Look Ahead X, University of Maryland, Baltimore County, Nov. 1, 2006. S(P)
- 44. Collins, B., (Arnold, B.)\*, (Kelly, L. A.)\*, "Stand-Off Detection of Energetic Materials Using Back-Scattered Coherent Spectroscopy," Office of Naval Resarch Counter IED Review Meeting, Washington, DC, August 23 24, 2005. (O)
- 45. (Zhang, Y.<sup>G</sup> Rohm and Haas Travel Award recipient), Chandrasekharan, N.<sup>P</sup>, Kelly, L. A.\*, "A Temperature Responsive Fluorescent Polymer Film," 16<sup>th</sup> Winter Conference of the Inter-American Photochemical Society, Clearwater Beach, FL, Jan. 2 – 5, 2005. S(P)
- 46. (Daugherty, K.)<sup>G</sup>, Kelly, L. A.\*, "Photo-Initiated Saccharide Oxidation Processes Using a Ruthenium Catalyzed System," 14<sup>th</sup> Winter Conference of the Inter-American Photochemical Society, Clearwater Beach, FL, Jan. 2 – 5, 2003. S(P)
- 47. (Abraham, B.<sup>G</sup> as Travel Award Recipient), Kelly, L. A.\*, "Amino Acid Derivatives of Naphthalimide as Potential Agents of Protein Cleavage and Crosslinking," 31st Annual Meeting of the American Society for Photobiology, Baltimore, MD, July 5 – 9, 2003. S(O)
- 48. DeFusco, A. A.<sup>U</sup>, **(Kelly, L. A.)\***, Kimaro, A., Chandrasekharan, N., "Luminescent Polymers as Ratiometric Pressure Sensors," Fall National Meeting of the American Chemical Society, Boston, MA, August 18 22, 2002. (O)
- 49. Chandrasekharan, N.<sup>P</sup>, **(Kelly, L. A.)**\*, "*A Temperature Sensitive Luminophoric Polymer Film*," Winter Conference of the Inter-American Photochemical Society, Tempe, AZ, January 2 5, 2002 (P).
- 50. (Abraham, B.<sup>G</sup> As Travel Award Recipient), Kelly, L. A.\*, "Naphthalimide Derivatives as Photoprobes of Protein Structure and Function," 13<sup>th</sup> Winter Conference of the Inter-American Photochemical Society, Tempe, AZ, January 2 – 5, 2002. S(P)
- 51. (Abraham, B.<sup>G</sup> Travel Award Recipient), McMasters, S., Swe, K., **Kelly, L. A.\***, *"Naphthalimide Derived Photosensitizers: Versatile Nucleases and Proteases,"*

29<sup>th</sup> Annual Meeting of the American Society for Photobiology, Chicago, IL, July, 2001. S(P)

52. Abraham, B.<sup>G</sup>, Swe, K.<sup>U</sup>, **Kelly, L. A.\***, "*Naphthalimide Derivates as Protein Cleavage and Crosslinking Agents*," A Look Ahead VI: Futures in Biomedical Research, UMBC, October, 2000. S(P)