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PHILIP J. COSTANZO

Nanotechnology • Specialty Polymers • Materials Science • Synthetic Chemistry

Profile

Enthusiastic, highly-motivated scientist with over 20 years of experience in rational macromolecular design, synthesis, and application with different macromolecular engineering labs. Exhibits exceptional communication, presentation, and supervisory skills. Adept in working as a member of multidisciplinary teams. Efficiently investigates structure-property relationships and converts multidisciplinary questions into chemical objectives. Capably conducts multistep synthesis of organic compounds, including inert atmosphere and vacuum-line techniques. Expertise encompasses:

Research & Development • Experimental Design & Methods • Project Planning
Proposal Preparation • Report Writing • Team Facilitation • Product Development

Academic Credentials

University of California at Davis

Ph.D. Organic Chemistry : "Synthesis, Assembly, and Application of Novel Nanoaggregates."

- June 2005
- Thesis Advisor - Timothy Patten

Carnegie Mellon University

B.S. in Chemistry with Minor in Engineering Studies and Concentrations in Polymer and Material Science : *"Synthesis of Novel Materials via Atom Transfer Radical Polymerization (ATRP)."*

- May 2001 w/ Departmental Honors
- Thesis Advisor - Krzysztof Matyjaszewski

Teaching Appointments

Professor (9/16 - Current)

Associate Professor (9/12 - 9/16)

Assistant Professor (9/07 - 9/12)

Department of Chemistry and Biochemistry @ California Polytechnic State University, San Luis Obispo

Completed teaching assignments:

- Undergraduate Research (CHEM 200/201/400/401 - every quarter of appointment)
- Honors Research (CHEM 463 - over 60 enrollments)
- Senior Project (CHEM 461 - over 80 enrollments)
- Survey of Organic Chemistry (CHEM 312: Lecture & Laboratory 20 quarters, last taught W23)
- Organic Chemistry I (CHEM 216/316: Lecture 11 quarters, last taught F25)
- Organic Chemistry I (CHEM 216/316: Laboratory 8 quarters, last taught F12)
- Organic Chemistry II (CHEM 317: Lecture 5 quarters, last taught W13)
- Organic Chemistry III (CHEM 318: Lecture 3 quarters, last taught S13)
- Chemical and Biological Warfare (CHEM 349: Lecture 17 quarters, last taught S26)
- Undergraduate Seminar III (CHEM 303: 3 quarters, last taught S26)
- Undergraduate Seminar (CHEM 459 - 4 quarters, last taught S17)
- Polymers and Coatings II (CHEM 445/545: Lecture 8 quarters, last taught W15)
- Polymers and Coatings II (CHEM 448/548: Laboratory 8 quarters, last taught W15)
- College Teaching Practicum (CHEM 465 - 15 quarters, last taught S23)
- Graduate Seminar (CHEM 590 - 3 quarters, last taught S16)
- Graduate Thesis/Project (CHEM 598/599 - over 25 enrollments)

Teaching Assistant (9/01 – 1/03)

Department of Chemistry @ University of California at Davis

Professional Preparation

NRC Postdoctoral Fellow (8/05 – 8/07)

Sponsor - Rick Beyer @ Army Research Laboratory

- Invented a thermo-responsive film system
- Controlled film additive dispersion and migration properties using Diels-Alder chemistry and block copolymer phase separation
- Synthesized difunctional, asymmetric polymer ligands
- Created specialty resins for military applications
- Managed laboratory and instrument maintenance

Graduate Research Scientist (7 /01 - 7/05)

Advisor - Timothy Patten @ University of California at Davis

- Developed and employed innovative synthetic pathways for the preparation of difunctional, asymmetrical PEG linkers
- Designed, prepared and characterized unique nanoparticles for a variety of applications
- Controlled growth, shape, and size of nanoaggregates by dictating particle interactions
- Assembled detection system based upon dielectrophoretic response of nanoaggregates
- Managed laboratory and instrument maintenance

Undergraduate Research Scientist (5 / 99 - 6 / 01)

Advisor - Krzysztof Matyjaszewski @ Carnegie Mellon University

- Independently designed, prepared and published the synthesis and characterization of poly(methyl acrylate-*graft*-thiophene), a fluorescent graft copolymer
- Synthesized block and gradient co-polymers via ATRP
- Developed thermoplastic elastomers and hydrogels from prepared macromonomers
- Assisted in laboratory and instrument maintenance

Professional Intern (5 / 00 - 8 / 00)

Advisor - Charles Bauer @ Eastman Kodak Research Labs - Polymer Science Lab

- Enhanced the mechanical and thermal properties of thin films via star polymer additives
- Determined the morphology and physical properties of star polymers of varying composition and architecture

Head Karate Instructor (10/95 - 7 / 05)

Supervisor - Jeff Mignogna @ Tang Soo Do Karate College - Pittsburgh, PA

Supervisor - Jim Trapani @ Pallen's Martial Arts - Davis, CA

- Instructed group (10-50 students) and private (1-10 students) classes
- Participated in instructor training programs
- Managed finances of the school, including contracts to students

Awards Received

- ***James Flack Norris Award*** *(ACS Northeastern Section) for Outstanding Achievement in the Teaching of Chemistry (2025)*
- *Industrial Innovation Award from Adhesives and Sealants Council (2024)*
- ***Ronald T. Pflaum Award*** *from Alpha Chi Sigma for Outstanding Chapter Advisor : 2014 - 2016*
- ***California Polytechnic State University Award*** *for Distinguished Teaching : 2022-2023*
- ***California Polytechnic State University Award*** *for Distinguished Scholarship : 2014-2015*
- ***California Polytechnic State University Award*** *for Outstanding Undergraduate Advisor : 2010*
- *National Research Council (NRC) Postdoctoral Fellowship (2005-2007)*
- *Gordon Research Council Post-Doctoral Award : Macromolecular Materials Symposium (JAN 2007)*
- *Gordon Research Council Graduate Student Award : Macromolecular Materials Symposium (JAN 2005)*
- *Silver Graduate Student Award from the Material Research Society (MRS) (MAR 2004)*
- *NEAT-IGERT Fellowship (2001-2004)*
- *University of California at Davis : Outstanding Teaching Assistant Award (2003)*
- *University of California at Davis : Borge Scholarship (2001-2003)*
- *Carnegie Mellon Outstanding Undergraduate Chemist Award (2001)*

Publications (Cal Poly undergraduates are underlined.)

Completed at California Polytechnic State University

38) Williams, Q. E., L'Heureux, S. J., Fleischer, C. J., Alamillo, D. J., Freeman, A. N., Bellamah, J., Moore, J., Gonzalez, J., Ituralde, E., Borchers, S., Frey, M. J., Larson, S. D., Patil, S., Landa, J. D., Guerrero, G., Costanzo, P. J., Bercovici, D. A., "Investigation into the stereoelectronics of the thiol-promoted fragmentation of ylidenenorbornadienes (YNDs)" *J. Org. Chem.* **2025** *90 (42)* 14993-15003.

37) Richardson, A. D., L'Heureux, S. H., Henry, A. M., McDonough, E. A., Fleischer, C. J., McMullen, C. C., Reynafarje, T. R., Guerrero, G. P., Williams, Q. E., Zhou, Q., Malouf, D. M., Thurman, S. E., Soeller, J. E., Sheng, J. Y., Medhurst, E. A., Canales, A. E., Cecil, T. B., Houk, K. N., Costanzo, P. J., Bercovici, D. A. "Experimental and Theoretical Exploration of the Kinetics and Thermodynamics of the Nucleophile-Induced Fragmentation of Ylidenenorbornadiene Carboxylates." *J. Org. Chem.* **2023**. *88*, 11683-11693. https://doi.org/10.1021/acs.joc.3c00980.

36) Kumler, M. S., Skinner, N. M., Meyersohn, M. S., Colt, T. A., Valverde, M., Powell, C. E., Costanzo, P. J., "Trials and adventures of the synthesis and evaluation of amphiphilic graft copolymers with dynamic topology." *J. Polym. Sci.* **2022***. 60 (22),* 3117.

35) Malouf, D. M., Richardson, A. D., L'Heureux, S. H. McDonough, E. A., Henry, A. M., Sheng, J. Y., Medhurst, E. A., Canales, A. E., Fleischer, C. J., Cecil, T. B., Thurman, S. E., McMullen, C. C., Costanzo, P. J., Bercovici, D. A. "Ylidenenorbornadiene Carboxylates: Experimental Kinetic Analysis of a Nucleophile-Induced Fragmentation Reaction." *Org. Lett.* **2022**, *24(15),* 2793-2797.

34) Bisbjerg, G., Brown, G. W., Pham, K. S., de Kock, R. A., Ramos, W., Patierno, J. A., Bautista, A., Zawalick, N. M., Vigil, V., Padrnos, J. D., Mathers, R. T., Heying, M. D., Costanzo, P. J., "Exploring polymer solubility with thermally-responsive Diels-Alder monomers: Revisiting the monkey's fist." *J. Polym. Sci.* **2022**, *60(2),* 175-187. This article was selected for the cover of *J. Polym. Sci.*

33) Wilborn, E. G., Gregory, C. M., Machado, C. A., Page, T. M., Ramos, W., Hunter, M. A., Smith, K. M., Gosting, S. E., Tran, R. Varney, K. L. Savin, D. A., Costanzo, P. J., "Unraveling polymer structures with RAFT polymerization and Diels-Alder chemistry." *Macromolecules.* **2019.** *52 (3),* 1308-1316.

32) Liu, C. H., Noxon, I. C., Cuellar, L. E., Thraen, A. L., Immoos, C. E., Martinez, A. W., Costanzo, P. J. "Characterization of Reagent Pencils for Deposition of Reagents onto Paper-Based Microfluidic Devices" *Micromcachines.* **2017**, *8 (8),* 242 - 253.

31) Swanson, J. P., Cruz, M. A., Monteleone, L. R., Martinez, M. R., Costanzo, P. J., Joy, A. "The Effect of pendant group structure on the thermoresponsive properties of N-substituted polyesters" *Polym. Chem.* **2017,** *8*. 7195-7206.

30) Earla, A., Li, L., Costanzo, P., Braslau, R. "Phthalate plasticizers covalently linked to PVC via copper-free or copper catalyzed azide-alkyne cycloadditions." *Polymer.* **2017.** *109,* 1-12.

29) Swanson, J. P., Martinez, M. R., Cruz, M. A., Mankoci, S. G., Costanzo, P. J., Joy, A. "A coacervate-forming biodegradable polyester with elevated LCST based on bis-(2-methoxyethyl)amine." *Polym. Chem.* **2016**, *7,* 4693-4702.

28) Mitchell, H. T., Schultz, S. A., Costanzo, P. J., Martinez, A. W. "Poly(*N*-isopropylacrylamide) hydrogels for storage and delivery of reagents to paper-based analytical devices." *Chromatography.* **2015.** *2,* 436-451.

27) Swanson, J. P., Monteleone, L. R., Haso, F., Costanzo, P. J., Liu, T., Joy, A. "A library of thermoresponsive, coacervate-forming biodegradable polyesters." *Macromolecules.* **2015.** *48 (12),* 3834-3842.

26) Bass, G. F., Colt, M. S., Chavez, A. D., DeHoe, G. X., Formal, T. P., Seaver, C. P., Kha, K., Kelley, B. A., Scott, G. E., Immoos, C. E., Costanzo, P. J. "Synthetic design and investigation of novel polymeric surfactants." *Polymer.* **2015.** *72*, 301-306

25) Mitchell, H. T., Noxon, I. C., Chaplan, C.A., Carlton, S. J., Liu, C. H. M., Ganaja, K. A., Martinez, N. W., Immoos, C. E., Costanzo, P. J, Martinez, A. W. "Reagent pencils: a new technique for solvent-free deposition of reagents onto paper-based microfluidic devices." *Lab Chip.* **2015**, *15,* 2213 - 2220. This article was highlighted in *Chemical & Engineering News* (18 MAY 2015).

Publications continued… (Cal Poly undergraduates are underlined.)

Completed at California Polytechnic State University continued…

24) Dirlam, P. T., Simmonds, A. G., Kleine, T. S., Nguyen, N. A., Anderson, L. E., Klever, A. O., Florian, A., Costanzo, P. J., Theato, P., Mackay, M. E., Glass, R. S., Char, K., Pyun. J. "Inverse vulcanization of elemental sulfur with 1,4-diphenylbutadiyne for cathode materials in Li–S batteries." *RSC Adv.* **2015**, *5*, 24718-24722.

23) Amato, N. D., Strange, G. A., Swanson, J. P., Chavez, A. D., Roy, S. E., Varney, K. L., Machado, C. A., Amato, D. V. Costanzo, P. J. "Synthesis and evaluation of thermally-responsive coatings based upon Diels-Alder chemistry and renewable materials." *Polym. Chem.* **2014**, *5 (1),* 69 - 76. This article was selected for the cover of *Polym. Chem.*

22) Dirlam, P. T., Kim, H. J., Arrington, K. J., Chung, W. J., Sahoo, R., Hill, L. J., Costanzo, P. J., Theato, P., Char, K., Pyun, J. "Single chain polymer nanoparticles via sequential ATRP and oxidative polymerization." *Polym. Chem.* **2013.** *4 (13),* 3765-3773.

21) Hill, L. J. Bull, M. M., Sung, Y., Simmonds, A. G., Dirlam, P. T., Richer, N. E., DeRosa, S. E., Shim, I-B., Guin, D., Costanzo, P. J., Pinna, N., Willing, M-G., Vogel, W., Char, K., Pyun, J. "Direction the Deposition of Ferromagnetic Cobalt onto Pt-Tipped CdSe@CdS Nanorods: Synthetic and Mechanistic Insights." *ACS Nano* **2012.** *6 (10),* 8632-8645.

20) Kim, B. Y., Shallcross, R. C., Armstrong, N. R., Kim, H., Chung, W. J., Sahoo, R., Char, K., Dirlam, P. T., Costanzo, P. J., Pyun, J. "Surface Initiated Atom Transfer Radical Polymerizations from Indium Tin Oxide Electrodes: Electrochemistry of Polymer Brushes." *ACS Symposium Series, Vol. 1101. Progress in Controlled Radical Polymerization: Materials and Applications.* DOI: 10.1021/bk-2012-1101.ch013. ISBN13: 9780841227576. Chapter 13, pp 197–209

19) Hill, M. R., Mukherjee, S., Costanzo, P. J., Sumerlin, B. "Modular Oxime Functionalization of Well-Defined Alkoxyamine-Containing Polymers." *Polym. Chem.* **2012.** *3*, 1756-1762. This article was selected for the cover page of *Polym. Chem.*

18) Curtzwiler, G. W., Costanzo, P. J., Fernando, R., Danes, J. E., Vorst, K. "Thermal Initiated Hydroxyethyl Methacrylate Functionalization of Multi-Walled Carbon Nanotubes." *J. Appl. Polym. Sci.* **2011.** *121*, 964–969.

17) Carlson, J. S, Hill, M. R, Young, T., Costanzo, P. J. "Novel polymer coupling chemistry based upon latent cysteine-like residues and thiazolidine chemistry." *Polym. Chem.* **2010.** *1,* 1423-1426.

16) Swanson, J. P., Rozvadovsky, S., Seppala, J. E., Mackay, M. E., Jensen, R. E., Costanzo, P. J. "Development of polymeric phase change materials based upon Diels-Alder chemistry." *Macromolecules.* **2010.** *43 (14),* 6135-6141.

15) Dirlam, P. T., Strange, G. A., Orlicki, J. A., Wetzel, E. D, Costanzo, P. J. "Controlling Surface Energy and Wetability with Diels-Alder Chemistry." *Langmuir.* **2010.** *26(6)*, 3942-3948.

Completed at the Army Research Laboratory

14) Stanzione, J. F., Jensen, R. E., Costanzo, P. J., Palmese, G. R. "Synthesis and Characterization of Ionic Polymer Networks in a Room-Temperature Ionic Liquid." *ACS Appl. Mater. Interfaces.* **2012.** *4 (11),* 6142–6150.

13) Saito, T., Mather, B., Costanzo, P. J., Beyer, F. L., Long, T. "Influence of Site-Specific Sulfonation on Arylic Graft Copolymer Morphology." *Macromolecules.* **2008**. *41(10)*, 3503-3512.

12) Costanzo, P. J., Beyer, F. L. "Thermo-responsive, optically active films based upon Diels-Alder chemistry." *Chem. Mater.* **2007.** *19(25),* 6168-6173.

11) Costanzo, P. J., Beyer, F. L. "Thermally Driven Assembly of Nanoparticles in Polymer Matrices." *Macromolecules.* **2007.** *40 (11)*, 3996-4001.

10) Costanzo, P. J., Demaree, J. D., Beyer, F. L. "Thermo-responsive films based upon Diels-Alder chemistry and block copolymer phase separation." *Langmuir.* **2006.** *22 (24)*, 10251-10257.

Publications continued…

Completed at the University of California at Davis

9) Barber, S., Kreer, T., Mulder, D., Costanzo, P., Patten, T., Kuhl. T. "Using thiol-gold bond formation to bridge surfaces with a polymer brush: SFA experiments and MD simulations." *Macromolecules* **2013.** *46 (24*) 9826–9836.
8) Barber, S., Kreer, T., Costanzo, P. J., Patten, T. E., Johner, A., Kuhl. T. L., Marques, C. M. "Polymer under High Load." *PLOS ONE* **2013.** *8 (3),* e58392. doi:10.1371/journal.pone.0058392
7) Costanzo, P. J., Patten, T. E., Dan, N. "Synthesis of Di-functional, asymmetrical PEG linkers of Various Molecular Weights and Their Effect upon Aggregation of Nanoparticles." *Macromolecules*. **2008**. *41(4)*, 1570-1576.
6) Barber, S., Costanzo, P. J., Moore, N., Patten, T. E., Lancaster, K. S., Lebrilla, C. B Kuhl. T. "Preparation and Polymer Mediated Assembly of Bilaterial, Di-functional Nanosphere Aggregates." *J. Phys. Chem. A.* **2006.** *110 (13)*, 4538-4542.
5) Costanzo, P. J., Patten, T. E. Seery, T. A. P. "Control and Tunability of Aggregation Rates for Nanostructures Using Nanoparticles of Various Sizes." *Langmuir*. **2006.** *22(6)*, 2788-2794.
4) Costanzo, P. J., Liang, E., Patten, T. E., Collins, S. D., Smith, R. L. "Biomolecule Detection via Target Mediated Nanoparticle Aggregation and Dielectrophoretic Impedance Measurement (DEPIM)." *Lab on a Chip*. **2005.** *5 (6)*, 606-610.
3) Costanzo, P. J., Patten, T. E. Seery, T. A. P. "Protein-Substrate Mediate Aggregation of CdS@SiO_2 Nanoparticles: Synthesis and Assembly Mechanism." *Chem. Mater.* **2004.** *16 (9)*,1775-1785.

Completed at Carnegie Mellon University

2) Buzin, A., Pyda, M., Costanzo, P., Matyjaszewski, K., Wunderlich, B. "Calorimeter study of block-copolymers of poly(*n*-butyl acrylate-*co*-methyl methacrylate)." *Polymer*. **2002.** *43 (20)*, 5563-5569.
1) Costanzo, P. J., Stokes, K. K. "Synthesis of poly(methyl acrylate) grafted from poly(thiophene) to form solid-state fluorescent materials." *Macromolecules*. **2002.** *35(18)*, 6804-6810.

US Patents (Cal Poly undergraduates are underlined.)

Completed at California Polytechnic State University

5) Costanzo, P. J., Stokes, K. K. "Programmable adhesive based upon Diels-Alder Chemistry." US Patent # 11,820,926
4) Martinez, A. W., Mitchell H. T., Immoos, C. E., Martinez, N. W., Costanzo, P. J., Carlton, S. J. "Reagent-loaded pencils and methods." US Patent # 10,343,168.
3) Vorst, K., Curtzwiler, G. W., Danes, J., Costanzo, P. J. "Systems and methods for determining recycled thermoplastic content." US Patent # 8,063,374.

Completed at the Army Research Laboratory

2) Costanzo, P. J., Beyer, F. L. "Controlling additive dispersion and migration properties." US. Patent # 7,863,376.
1) Costanzo, P. J., Beyer, F. L., Jenson, R. E. "Reversible Viscosity Reducing Polymer." US. Patent # 7,812,069.

External Oral Presentations (Presenting authors are denoted with an *. Cal Poly undergraduates are underlined.)

Completed at California Polytechnic State University

108) Jensen. M. O.,* Bercovici, D. A., Costanzo, P. J. "Implementation of nucleophile-induced retro-Diels-Alder chemistry to prepare polymers with dynamic molecular weights." American Chemical Society: Atlanta, GA 24 MAR 26.
107) Becerra, M. D.,* Bercovici, D. A., Costanzo, P. J. "Development of a computational modeling tool (FRANK)." American Chemical Society: Atlanta, GA 24 MAR 26.

External Oral Presentations continued …

(Presenting authors are denoted with an *. Cal Poly undergraduates are underlined.**)**

Completed at California Polytechnic State University continued…

106) Newcomer, S. G.,* Costanzo, P. J. "Employing Diels-Alder exchange reactions to yield uniquely responsive adhesives." American Chemical Society: Atlanta, GA 24 MAR 26.

105) Costanzo, P. J.* "Creation and development of science and people using Diels-Alder chemistry." **Invited Speaker:** American Chemical Society: Atlanta, GA 22 MAR 26.

104) Costanzo, P. J.* "Expanding the color wheel of Diels-Alder chemistry." **Invited Speaker:** Symposium on Stimuli-Responsive Materials: Sonoma, CA. 21 OCT 2025.

103) Stokes, K. K*., Costanzo, P. J. "D-Glue." **Invited Speakers**: Plug and Play, Japan (Nagoya, Station AI). 17 JAN 2025.

102) Stokes, K. K., Costanzo, P. J.* "D-Glue." **Invited Speakers**: Plug and Play, Japan (Tokyo, Shinagawa). 16 JAN 2025.

101) Stokes, K. K.*, Costanzo, P. J.* "D-Glue." **Invited Speakers**: Plug and Play, Japan (Tokyo, Shibuya). 15 JAN 2025.

100) Amato, D. N., Amato, D. V., Bisbjerg, G., Chavez, A. D., Dirlam, P. T., Donnelly, R. D., Dudiak, H. R., Gregory, C. G., Gosting, S. E., Hyde, R. T., Kellar, R. A., Kumler, M. S., Lin, N. A., Machado, C. A., Martinez, M. R., Meyersohn, M. S., Newcomer, S. G., Patierno, J. A., Pham, K. S., Ramos, W., Rozvadosvsky, S., Strange, G. A., Swanson, J. P., Varney, K. L., Wilborn, E. J, Stokes, K. K., Costanzo, P. J.* "Unraveling the Monkey's Fist with Diels-Alder Chemistry." **Invited Speaker:** Naval Air Weapons Station, China Lake, CA. 6 JAN 2025.

99) Donnelly, R. D., Dudiak, H. R., Hyde, R. T., Kellar, R. A., Newcomer, S. G., Patierno, J. A., Stokes, K. K., Costanzo, P. J.* "Unraveling the Monkey's Fist with Diels-Alder Chemistry." **Invited Speaker:** Mojave Desert American Chemical Society, China Lake, CA. 5 JAN 2025.

98) Amato, D. N., Amato, D. V., Bisbjerg, G., Chavez, A. D., Dirlam, P. T., Donnelly, R. D., Dudiak, H. R., Gregory, C. G., Gosting, S. E., Hyde, R. T., Kellar, R. A., Kumler, M. S., Lin, N. A., Machado, C. A., Martinez, M. R., Meyersohn, M. S., Newcomer, S. G., Patierno, J. A., Pham, K. S., Ramos, W., Rozvadosvsky, S., Strange, G. A., Swanson, J. P., Varney, K. L., Wilborn, E. J, Stokes, K. K., Costanzo, P. J.* "Unraveling the Monkey's Fist with Diels-Alder Chemistry." **Invited Speaker:** Colorado State University, Fort Collins, CO. 8 NOV 2024.

97) Amato, D. N., Amato, D. V., Bisbjerg, G., Chavez, A. D., Dirlam, P. T., Donnelly, R. D., Dudiak, H. R., Gregory, C. G., Gosting, S. E., Hyde, R. T., Kellar, R. A., Kumler, M. S., Lin, N. A., Machado, C. A., Martinez, M. R., Meyersohn, M. S., Newcomer, S. G., Patierno, J. A., Pham, K. S., Ramos, W., Rozvadosvsky, S., Strange, G. A., Swanson, J. P., Varney, K. L., Wilborn, E. J, Stokes, K. K., Costanzo, P. J.* "Unraveling the Monkey's Fist with Diels-Alder Chemistry." **Invited Speaker:** Pomona College, CA. 29 OCT 2024.

96) Amato, D. N., Amato, D. V., Bisbjerg, G., Chavez, A. D., Dirlam, P. T., Donnelly, R. D., Dudiak, H. R., Gregory, C. G., Gosting, S. E., Hyde, R. T., Kellar, R. A., Kumler, M. S., Lin, N. A., Machado, C. A., Martinez, M. R., Meyersohn, M. S., Newcomer, S. G., Patierno, J. A., Pham, K. S., Ramos, W., Rozvadosvsky, S., Strange, G. A., Swanson, J. P., Varney, K. L., Wilborn, E. J, Stokes, K. K., Costanzo, P. J.* "Unraveling the Monkey's Fist with Diels-Alder Chemistry." **Invited Speaker:** University of Southern Mississippi, Hattiesburg, MS. 24 JAN 2024.

95) Costanzo, P. J.*. **Invited Speaker:** POLY Future Faculty Workshop panel. College Station, TX. 27 JUN 2023.

94) Amato, D. N., Amato, D. V., Bisbjerg, G., Chavez, A. D., Dirlam, P. T., Gregory, C. G., Gosting, S. E., Kumler, M. S., Lin, N. A., Machado, C. A., Martinez, M. R., Meyersohn, M. S., Patierno, J. A., Pham, K. S., Ramos, W., Rozvadosvsky, S., Strange, G. A., Swanson, J. P., Varney, K. L., Wilborn, E. J, Costanzo, P. J.* "Unraveling the Monkey's Fist with Diels-Alder Chemistry." **Invited Speaker:** University of Arizona: Tucson, AZ. 12 SEP 2022.

Resume Continues...

External Oral Presentations continued …

(Presenting authors are denoted with an *. Cal Poly undergraduates are underlined.)

Completed at California Polytechnic State University continued…

93) Richardson, A., Malouf, D., Costanzo, P. J., Bercovici, D. A.*, " Experimental and computational kinetic analysis of the nucleophile-induced retro-[4+2] fragmentation of ylidenenorbornadiene dicarboxylate diasetereomers." American Chemical Society: San Diego, CA, 23 MAR 2022.

92) Kumler, M. S.*, Skinner, N., Meyersohn, M. S., Colt, T., Valverde, M. Powell, C., Costanzo, P. J.* "Manipulation of molecular topology and composition using Diels-Alder chemistry." American Chemical Society: San Diego, CA. 22 MAR 2022.

91) Costanzo, P. J.*. **Invited Speaker:** PMSE Future Faculty Scholars career panel. 28 OCT 2021.

90) Amato, D. N., Amato, D. V., Bisbjerg, G., Chavez, A. D., Dirlam, P. T., Gregory, C. G., Gosting, S. E., Kumler, M. S., Lin, N. A., Machado, C. A., Martinez, M. R., Meyersohn, M. S., Patierno, J. A., Pham, K. S., Ramos, W., Rozvadosvsky, S., Strange, G. A., Swanson, J. P., Varney, K. L., Wilborn, E. J, Costanzo, P. J.* "Unraveling the Monkey's Fist with Diels-Alder Chemistry." **Invited Speaker:** Louisiana State University: Baton Rouge, LA. 10 FEB 2021.

89) Amato, D. N., Amato, D. V., Bisbjerg, G., Chavez, A. D., Dirlam, P. T., Gregory, C. G., Gosting, S. E., Kumler, M. S., Lin, N. A., Machado, C. A., Martinez, M. R., Meyersohn, M. S., Patierno, J. A., Pham, K. S., Ramos, W., Rozvadosvsky, S., Strange, G. A., Swanson, J. P., Varney, K. L., Wilborn, E. J, Costanzo, P. J.* "Unraveling the Monkey's Fist with Diels-Alder Chemistry." **Invited Speaker:** Waterborne Coating Symposium: New Orleans, LA. 10 FEB 2021.

88) Amato, D. N., Amato, D. V., Bisbjerg, G., Chavez, A. D., Gregory, C. G., Gosting, S. E., Kumler, M. S., Lin, N. A., Luna, B., Machado, C. A., Martinez, M. R., Meyersohn, M. S., Ramos, W. Strange, G. A., Swanson, J. P., Varney, K. L., Wilborn, E. J, Costanzo, P. J.* "Incorporating Diels-Alder chemistry to prepare thermally-responsive materials." **Invited Speaker:** Lebanon Valley College: Annville, PA. 13 OCT 2020.

87) Valverde, M.*, Kumler, M. S., Costanzo, P. J. "Synthesis of Graft Copolymers using Diels-Alder chemistry." National Partners in Science: San Diego, CA. 17 JAN 2020.

86) Amato, D. N., Amato, D. V., Bisbjerg, G., Chavez, A. D., Colt, T. A., Dirlam, P. T., Gregory, C. G., Gosting, S. E., Kumler, M. S., Lin, N. A., Luna, B., Machado, C. A., Martinez, M. R., Meyersohn, M. S., Ramos, W. Strange, G. A., Swanson, J. P., Varney, K. L., Wilborn, E. J, Costanzo, P. J.* "Incorporating Diels-Alder chemistry to prepare thermally-responsive materials." **Invited Speaker:** San Jose State University: San Jose, CA. 10 SEP 2019.

85) Wilborn, E. G., Gregory, C. M., Gosting, S. E., Page, T. M., Ramos, W., Hunter, M. A., Costanzo, P. J.* "Incorporating Diels-Alder chemistry to prepare thermally-responsive materials." **Invited Speaker:** American Chemical Society: San Diego, CA. 24 AUG 2019.

84) Wilborn, E. G., Gregory, C. M., Gosting, S. E., Page, T. M., Ramos, W., Hunter, M. A., Costanzo, P. J.* "Incorporating Diels-Alder chemistry to prepare thermally-responsive materials." **Invited Speaker:** Golden Gate Polymer Forum: San Francisco, CA. 24 JUL 2019.

83) Wilborn, E. G., Gregory, C. M., Gosting, S. E., Page, T. M., Ramos, W., Hunter, M. A., Costanzo, P. J.* "Incorporating Diels-Alder chemistry to prepare thermally-responsive materials." **Invited Speaker:** Polymer Composites and High Performance Materials: Sonoma, CA. 21 JUL 2019.

82) Gosting, S. E.*, Wilborn, E. G., Gregory, C. M., Page, T. M., Ramos, W., Hunter, M. A., Costanzo, P. J. "Unraveling the kinetic growth mechanism of single-chain nanoparticle with Diels-Alder chemistry" American Chemical Society: Orlando FL. 2 APR 2019.

81) Amato, D. N., Amato, D. V., Chavez, A. D., Colt, T. A., Crenshaw, E. D., Gregory, C. G., Gosting, S. E., Kleine. T. S., Markmann, M. R., Martinez, M. R., Meyersohn, M. S., Schoch, T. M., Strange, G. A., Varney, K. L., Wilborn, E. J, Costanzo, P. J.* "Incorporating Diels-Alder chemistry to prepare thermally-responsive materials." **Invited Speaker:** Detroit Society Coatings and Technology (DSCT) - FOCUS: Detroit, MI. 3 MAY 2018.

Resume Continues...

External Oral Presentations continued …

(Presenting authors are denoted with an *. Cal Poly undergraduates are underlined.)

Completed at California Polytechnic State University continued…

80) Meyersohn, M. S.*, Gosting, S. E., Colt, T. A.*, Rhoads, R. H., Barcus, K. S., Markmann, M. R., Costanzo, P. J. "Manipulation of molecular topology and composition using Diels-Alder chemistry" American Chemical Society: New Orleans, LA. 20 MAR 2018. ***Meyersohn received the award for Outstanding Undergraduate Presentation in the POLY division of ACS.***

79) Wilborn, E. G.*, Gregory, C. M., Page, T. M. Costanzo, P. J. "Controlling polymer solubility with Diels-Alder chemistry and LCST." American Chemical Society: New Orleans, LA. 20 MAR 2018

78) Amato, D. N., Amato, D. V., Chavez, A. D., Colt, T. A. Crenshaw, E. D., Dirlam, P. T., Gosting, S. E., Gregory, C. G., Kleine. T. S., Markmann, M. R., Martinez, M. R., Meyersohn, M. S., Pattillo, C. C., Schoch, T. M., Strange, G. A., Varney, K. L., Wilborn, E. J, Costanzo, P. J.* "Incorporating Diels-Alder chemistry to prepare thermally-responsive materials." **Invited Speaker:** Waterborne Coating Symposium: New Orleans, LA. 2 FEB 2018. *Selected for plenary talk of entire conference.*

77) Amato, D. N., Amato, D. V., Chavez, A. D., Colt, T. A. Crenshaw, E. D., Dirlam, P. T., Gosting, S. E., Gregory, C. G., Kleine. T. S., Markmann, M. R., Martinez, M. R., Meyersohn, M. S., Pattillo, C. C., Schoch, T. M., Strange, G. A., Varney, K. L., Wilborn, E. J, Costanzo, P. J.* "Incorporating Diels-Alder chemistry to prepare thermally-responsive materials." **Invited Speaker:** University of Akron, Akron, OH. 1 DEC 2017.

76) Amato, D. N., Amato, D. V., Chavez, A. D., Colt, T. A. Crenshaw, E. D., Dirlam, P. T., Gosting, S. E., Gregory, C. G., Kleine. T. S., Markmann, M. R., Martinez, M. R., Meyersohn, M. S., Pattillo, C. C., Schoch, T. M., Strange, G. A., Varney, K. L., Wilborn, E. J, Costanzo, P. J.* "Incorporating Diels-Alder chemistry to prepare thermally-responsive materials." **Invited Speaker:** University of New Hampshire, Durham, NH. 12 SEP 2017.

75) Amato, D. U., Strange, G. A., Swanson, J. P., Chavez, A. D., Varney, K. L., Amato, D. V., Costanzo, P. J.* "Synthesis and evaluation of thermally-responsive coatings based upon Diels-Alder chemistry and renewable materials." American Chemical Society: San Francisco, CA. 5 APR 2017.

74) Gregory, C. M.*, Wilborn, E. G., Costanzo, P. J. "Thermally responsive materials with dynamic topology based upon Diels-Alder chemistry." American Chemical Society: San Francisco, CA. 3 APR 2017.

73) Sarantes, C. A.*, Eckhart, K. E.*, DeHoe, C., Souza, L., Ventura, A. M., Varni, A. J., Costanzo, P. J. "Utilization of a cysteine core for the preparation of novel mikto-arm star polymer." American Chemical Society: San Francisco, CA. 3 APR 2017.

72) Colt, T. A.*, Barcus, K. S., Crenshaw, E. D., Rhoads, R. D., Costanzo, P. J. "Incorporation of Diels-Alder chemistry into polymer matrices via an inimer approach." American Chemical Society: San Francisco, CA. 3 APR 2017.

71) Amato, D. N., Amato, D. V., Chavez, A. D., Crenshaw, E. D., Dirlam, P. T., Gregory, C. G., Kleine. T. S., Markmann, M. R., Martinez, M. R., Meyersohn, M. S., Pattillo, C. C., Schoch, T. M., Strange, G. A., Varney, K. L., Wilborn, E. J, Costanzo, P. J.* "Incorporation Diels-Alder chemistry to prepare thermally-responsive materials." **Invited Speaker:** American Chemical Society: San Francisco, CA. 3 APR 2017. *Selected for plenary talk in Frontiers in Nanoscience : Undergraduate Symposium*

70) Costanzo, P. J.* "Undergraduate polymer synthesis developed for lecture and laboratory experiments." **Invited Speaker:** American Chemical Society: San Francisco, CA. 3 APR 2017.

69) Barcus, K. S., Colt, T. A., Crenshaw, E. D., Gregory, C. G., Kleine. T. S., London, A. E., Markmann, M. R., Martinez, M. R., Meyersohn, M. S., Schoch, T. M., Varney, K. L., Wilborn, E. J, Costanzo, P. J.* "Incorporation Diels-Alder chemistry to prepare thermally-responsive materials." **Invited Speaker:** Polymer Composites and High Performance Materials: Sonoma, CA. 28 JUL 2016.

68) Barcus, K. S., Colt, T. A., Crenshaw, E. D., Gregory, C. G., Kleine. T. S., London, A. E., Markmann, M. R., Martinez, M. R., Meyersohn, M. S., Schoch, T. M., Varney, K. L., Wilborn, E. J, Costanzo, P. J.* "Incorporation Diels-Alder chemistry to prepare thermally-responsive materials." **Invited Speaker:** University of California at San Diego : San Diego, CA. 18 APR 2016.

Resume Continues...

External Oral Presentations continued …

(Presenting authors are denoted with an *. Cal Poly undergraduates are underlined.**)**

Completed at California Polytechnic State University continued…

67) Eckhart, K. E.*, Ventura, A. M., Varni, A. J., DeHoe, C., Costanzo, P. J. "Employment of cysteine and thiazolidine chemistry for novel polymer coupling and architectures." American Chemical Society: San Diego, CA. 15 MAR 2016.

66) Liu, C. H.*, Mitchell, H. T., Noxon, I, C., Immoos, C. E., Martinez, N., Martinez, A. W., Costanzo, P. J. "Use of Diels-Alder chemistry to prepare molecular weight changing materials." American Chemical Society: San Diego, CA. 15 MAR 2016.

65) Alameda, B. M.*, Feist, S., Heintzman, H. M., Costanzo, P. J. "Synthetic design of block copolymer amphiphilies for nanomaterial dispersion." American Chemical Society: San Diego, CA. 15 MAR 2016.

64) Johnson, R. G.*, Wilborn, E. G., Barcus, K. S., Crenshaw, E. D., Costanzo, P. J. "Thermally responsive materials with dynamic topology based upon Diels-Alder chemistry." American Chemical Society: San Diego, CA. 15 MAR 2016.

63) Martinez, M. R.*, Markmann, M. R., Schoch, T. D., Costanzo, P. J. "Use of Diels-Alder chemistry to prepare molecular weight changing materials." American Chemical Society: San Diego, CA. 15 MAR 2016. Martinez ***received the award for Outstanding Undergraduate Presentation in the POLY division of ACS.***

62) Markmann, M. R., Martinez, M. R., Schoch, T. M., Johnson, R. G., Wilborn, E. J, Barcus, K. S., Crenshaw, E. D.,Costanzo, P. J.* "Incorporating Diels-Alder chemistry to prepare thermally-responsive materials." **Invited Speaker:** American Chemical Society: San Diego, CA. 14 MAR 2016.

61) Amato, D. U., Strange, G. A., Swanson, J. P., Chavez, A. D., Varney, K. L., Amato, D. V., Costanzo, P. J.* "Re-healable Coatings Based Upon Thermally Responsive Linkages and Renewable Materials." **Invited speaker:** Western Coating Symposium: Las Vegas, NV. 26 OCT 2015.

60) Amato, D. N., Amato, D. V., Chavez, A. D., Crenshaw, E. D., Johnson, R. G., Kleine. T. S., London, A. E., Machado, C. A., Markmann, M. R., Martinez, M. R., Pattillo, C. C., Roy, S. E., Rozvadovsky, S., Schoch, T. M., Strange, G.A, Swanson, J. P., Varney, K. L., Wilborn, E. J, Costanzo, P. J.* "Employing Diels-Alder chemistry to prepare thermally-responsive materials." **Invited Speaker:** International Fusion Conference, London, England. 8 AUG 2015.

59) Amato, D. N., Amato, D. V., Chavez, A. D., Crenshaw, E. D., Dirlam, P. T., Johnson, R. G., Kleine. T. S., London, A. E., Machado, C. A., Markmann, M. R., Martinez, M. R., Pattillo, C. C., Roy, Strange, G.A, Roy, S. E., Sloch, T. M., Swanson, J. P., Varney, K. L., Wilborn, E. J, Costanzo, P. J.* "Employing Diels-Alder chemistry to prepare thermally-responsive materials." **Invited Speaker:** Seoul National University, Seoul, South Korea. 16 JUN 2015.

58) Noxon, I. C.*, Costanzo, P. J., Martinez, A. W. "Characterization of reagent pencils for solvent-free depositions of reagents onto paper-based diagnostic devices." CSU Research Competition :San Bernardino, CA. 2 MAY 2015.

57) Liu, C. H.*, Costanzo, P. J., Martinez, A. W. "Characterization of reagent pencils for solvent-free depositions of reagents onto paper-based diagnostic devices." CSU Research Competition :San Bernardino, CA. 2 MAY 2015.

56) Monteleone, L. R.*, Cruz, M. A.*, Costanzo, P. J. "Controlling Surface Energy and Wettability with a Light Responsive Linker System." CSU Research Competition :San Bernardino, CA. 2 MAY 2015.

All work was completed by Cal Poly undergraduates at Cal Poly.

55) Amato, D. N., Amato, D. V., Chavez, A. D., Crenshaw, E. D., Dirlam, P. T., Johnson, R. G., Kleine. T. S., London, A. E., Machado, C. A., Markmann, M. R., Martinez, M. R., Pattillo, C. C., Roy, Strange, G.A, Roy, S. E., Sloch, T. M., Swanson, J. P., Varney, K. L., Wilborn, E. J, Costanzo, P. J.* "Employing Diels-Alder chemistry to prepare thermally-responsive materials." **Invited Speaker:** Case Western University, Cleveland, OH. 1 MAY 2015.

Resume Continues...

External Oral Presentations continued …

(Presenting authors are denoted with an *. Cal Poly undergraduates are underlined.**)**

Completed at California Polytechnic State University continued…

54) Bass, G. F., De Hoe, G. X, Formal, T. P, O'Bryan, G., Costanzo, P. J.* "Preparation of Polymeric Surfactants for Carbon Nanotube Dispersion." **Invited Speaker**: Carnegie Mellon University, Pittsburgh, PA. 28 MAR 2015.

53) Swanson, J. P.*, Monteleone, L. R., Haso, F. Lui, T., Costanzo, P. J., Joy. A. "Synthesis and characterization of thermoresponsive, biodegradable polyesters." American Chemical Society: Denver, CO. 26 MAR 2015

52) Markmann, M. R.*, Martinez, M. R., Crenshaw, E. D., Kleine, T. S, Costanzo, P. J. "Dynamic topology of thermally-responsive materials via Diels-Alder chemistry." American Chemical Society: Denver, CO. 24 MAR 2015

51) Amato, D. U., Strange, G. A., Swanson, J. P., Varney, K. L., Amato, D. V., Costanzo, P. J.* "Synthesis and evaluation of thermally-responsive coatings based upon Diels-Alder chemistry and renewable materials." American Chemical Society: Denver, CO. 22 MAR 2015

51) Amato, D. U., Strange, G. A., Swanson, J. P., Chavez, A. D., Varney, K. L., Amato, D. V., Costanzo, P. J.* "Employing Diels-Alder chemistry to prepare thermally-responsive materials." **Invited speaker:** Carnegie Mellon University, Pittsburgh, PA. 29 MAY 2014.

50) Amato, D. N., Amato, D. V., Chavez, A. D., Crenshaw, E. D., Johnson, R. G., Kleine. T. S., London, A. E., Machado, C. A., Markmann, M. R., Martinez, M. R., Pattillo, C. C., Roy, S. E., Rozvadovsky, S., Schoch, T. M., Strange, G.A, Swanson, J. P., Varney, K. L., Wilborn, E. J, Costanzo, P. J.* "Employing Diels-Alder chemistry to prepare thermally-responsive materials." **Invited Speaker:** International Fusion Conference, London, England. 8 AUG 2015.

49) Amato, D. N., Amato, D. V., Chavez, A. D., Crenshaw, E. D., Dirlam, P. T., Johnson, R. G., Kleine. T. S., London, A. E., Machado, C. A., Markmann, M. R., Martinez, M. R., Pattillo, C. C., Roy, Strange, G.A, Roy, S. E., Sloch, T. M., Swanson, J. P., Varney, K. L., Wilborn, E. J, Costanzo, P. J.* "Employing Diels-Alder chemistry to prepare thermally-responsive materials." **Invited Speaker:** Seoul National University, Seoul, South Korea. 16 JUN 2015.

48) De Hoe, G. X.*, Formal, T. P, O'Bryan, G., Costanzo, P. J. "Synthetic design of block copolymer amphiphiles for nanomaterial dispersion." CSU Research Competition: Hayward, CA. 2 MAY 2014. ***De Hoe received 1st place in the Physical and Mathematical Sciences (PMS) division.***

47) Amato, D. U., Strange, G. A., Swanson, J. P., Chavez, A. D., Varney, K. L., Amato, D. V., Costanzo, P. J.* "Synthesis and evaluation of thermally-responsive coatings based upon Diels-Alder chemistry and renewable materials." **Invited speaker:** American Chemical Society: Dallas, TX. 16 MAR 2014

46) Kleine, T. S.*, London, A. E., Markmann, M. R., Costanzo, P. J. : "Dynamic topology of thermally-responsive materials via Diels-Alder chemistry" American Chemical Society: Dallas, TX. 16 MAR 2014

45) Varni, A. J.*, Venture, A. M., Amato, D. V., Costanzo, P. J. ""Incorporation of cysteine functional groups for novel polymer coupling based upon thiazolidine chemistry" American Chemical Society: Dallas, TX. 16 MAR 2014

44) De Hoe, G. X.*, Formal, T. P, O'Bryan, G., Costanzo, P. J. "Synthetic design of block copolymer amphiphiles for nanomaterial dispersion." American Chemical Society: Dallas, TX. 16 MAR 2014De Hoe ***received the award for Outstanding Undergraduate Presentation in the POLY division of ACS.***

43) Amato, D. U., Strange, G. A., Chavez, A. D., Varney, K. L., Costanzo, P. J.* "Synthesis and evaluation of thermally-responsive coatings based upon Diels-Alder chemistry and renewable materials." **Invited Speaker:** Symposium on Stimuli-Responsive Materials: Santa Rosa, CA. 22 OCT 2013.

42) Varney, K. L.*, Amato, D. U., Costanzo, P. J. "Re-healable Coatings Based Upon Thermally Responsive Linkages." Western Coating Symposium: Las Vegas, NV. 22 OCT 2013.

Resume Continues...

External Oral Presentations continued …

(Presenting authors are denoted with an *. Cal Poly undergraduates are underlined.**)**

Completed at California Polytechnic State University continued…

41) Amato, D. N., Amato, D. V., Chavez, A. D., Dirlam, P. T., Machado, C. A., Pattillo, C. C., Roy, Strange, G.A, Swanson, J. P., Varney, K. L., Costanzo, P. J.* "Employing Diels-Alder chemistry to prepare thermally-responsive materials." **Invited Speaker:** Duquense University, Pittsburgh, PA. 13 SEP 2013.

40) Pattillo, C. P.*, Costanzo, P. J. "Controlling Surface Energy and Wettability with a Light Responsive Linker System." CSU Research Competition: Pomona, CA. 9 MAY 2013. Pattillo ***received 1st place in the Physical and Mathematical Sciences (PMS) division.***

39) Ningrum, D. U.*, Costanzo, P. J. "Re-healable Coatings Based Upon Thermally Responsive Linkages." CSU Research Competition: Pomona, CA. 9 MAY 2013. Ningrum ***received 2nd place in the Interdisciplinary (Inter) division.***

38) Pattillo, C. P.*, Costanzo, P. J. "Controlling surface energy and wetability with a light responsive linker system." American Chemical Society: New Orleans, LA. 7 APR 2013

37) Chavez, A. D.*, Dehoe, G. X., Formal, T. P, O'Bryan, G., Costanzo, P. J. "Synthetic design of block copolymer amphiphiles for nanomaterial dispersion." American Chemical Society: New Orleans, LA. 7 APR 2013

36) Bentz, K. C., Chavez, A. D., London, A. E., Machado, C. A., Ningrum, D. U., Pattillo, C. C. Roland, C. D., Roy, S. E., Rozvadovsky, S., Strange, G.A, Swanson, J. P., Costanzo, P. J.* "Development of polymeric phase change materials based upon Diels-Alder chemistry." **Invited Speaker:** University of Southern Mississippi, Hattiesburg, MI. 28 NOV 2012.

35) Bentz, K. C., Chavez, A. D., Dean, J. M., Dirlam, P. T., London, A. E., Machado, C. A., Pattillo, C. C. Roland, C. D., Roy, S. E., Rozvadovsky, S., Strange, G.A, Swanson, J. P., Costanzo, P. J.* "Development of advanced materials from simple chemistry." **Invited Speaker:** Army Research Laboratory, Aberdeen Proving Ground, MD. 27 AUG 2012.

34) Hill, M. R.*, Mukherjee, S., Costanzo, P. J., Sumerlin, B. "Modular oxime functionalization of well-defined alkoxyamine-containing polymers." CSU Research Competition: Long Beach, CA. 5 MAY 2012.

33) Grau, W. C.*, Mann, S. I.*, Mackenzie, M. C., Costanzo, P. J. and Immoos, C. E. "Synthesis and SOD-like activity of Mn(III) complexes derived from tridentate Schiff based ligands." CSU Research Competition: Long Beach, CA. 5 MAY 2012.

32) Mackenzie, M. C.*, Grau, W. C., Mann, S. I., Costanzo, P. J. and Immoos, C. E. "Synthesis and SOD-like activity of Mn(III) complexes derived from tridentate Schiff based ligands." American Chemical Society: San Diego, CA. 25 MAR 2012.

31) Roland, C. D.*, Kleine, T. S., Orlicki, J. A. Costanzo, P. J. "Development of transparent, processable thermally-responsive coating." American Chemical Society: San Diego, CA. 25 MAR 2012.

30) Hill, M. R.*, Mukherjee, S., Costanzo, P. J., Sumerlin, B. "Modular oxime functionalization of well-defined alkoxyamine-containing polymers." American Chemical Society: San Diego, CA. 25 MAR 2012. Hill ***received an Undergraduate Travel Award***.

29) Pattillo, C. C.*, Strange, G. A., Dirlam, P. T., Costanzo, P. J. "Controlling surface energy and wetability with Diels-Alder chemistry." American Chemical Society: San Diego, CA. 25 MAR 2012. Pattillo ***received the award for Outstanding Undergraduate Presentation in the POLY division of ACS.***

28) Roy, S. E.*, Chavez, A. D., Dean, J. M., Swanson, J. P., Strange, G. A., Costanzo, P. J. "Polymeric phase-change materials based upon Diels-Alder chemistry." American Chemical Society: San Diego, CA. 25 MAR 2012.. Roy ***received an Undergraduate Travel Award***.

27) Amato, D. V.*, Hill, M. R., Burns, M. E., Costanzo, P. J. "Novel polymer coupling chemistry based upon latent cysteine-like functionality." American Chemical Society: San Diego, CA. 25 MAR 2012.

26) Pattillo, C. C., Dirlam, P. T., S., Strange, G.A, Costanzo, P. J.* "Controlling Surface Energy and Wetability with Diels-Alder Chemistry." **Invited Speaker:** Western Coating Symposium: Las Vegas, NV. 24 OCT 2011.

Resume Continues...

External Oral Presentations continued …

(Presenting authors are denoted with an *. Cal Poly undergraduates are underlined.**)**

Completed at California Polytechnic State University continued…

25) Amato, D. V., Bentz, K. C., Carlson, J. S., Chavez, A. D., Dirlam, P. T., Hill, M. R., S., Kleine, T. S., Pattillo, C. C., Roland, C. D., Roy, S. E., Rozvadovsky, S., Strange, G.A, Swanson, J. P., Costanzo, P. J.* "Development of advanced materials from simple chemistry." **Invited Speaker:** Southern Methodist University (SMU) - Dallas, TX. 3 AUG 2011.

24) Amato, D. V., Bentz, K. C., Carlson, J. S., Chavez, A. D., Dirlam, P. T., Hill, M. R., S., Pattillo, C. C. Roland, C. D., Roy, S. E., Rozvadovsky, S., Strange, G.A, Swanson, J. P., Costanzo, P. J.* "Development of advanced materials from simple chemistry." **Invited Speaker:** Huntsman Chemical Company - Houston, TX. 2 AUG 2011.

23) Dirlam, P. T., Pattillo, C. C., Strange, G.A, Costanzo, P. J.* "Controlling Surface Energy and Wetability with Diels-Alder Chemistry." **Invited Speaker:** Los Angeles Society for Coatings Technology (LASCT) - Anaheim, CA. 8 JUN 2011.

22) Strange, G. A.*, Costanzo, P. J. "Controlling nanoparticle dispersion via Diels-Alder chemistry." CSU Research Competition: Fresno, CA. 7 MAY 2011.

21) Grau, W. C.*, Mackenzie, M. C. Mann, S. I., McMahon, M. L., Costanzo, P. J. and Immoos, C. E. "Rational ligand design for the investigation of SOD reactivity." American Chemical Society: Anaheim, CA. 27 MAR 2011.

20) Dirlam, P. T.*, Chung, W-J., Costanzo, P. J., Pyun, J. "Aligned poly(3,4-alkyleneoxythiophene) brushes on indium tin oxide form surface initiated atom transfer radical polymerization and subsequent electrocopolymerization." American Chemical Society: Anaheim, CA. 27 MAR 2011.

19) Hill, M. R.*, Carlson, J. S., Costanzo, P. J. "Novel polymer coupling chemistry based upon latent cysteine-like functionality." American Chemical Society: Anaheim, CA. 27 MAR 2011.

18) Strange, G. A.*, Dirlam, P. T., Pattillo, C. C., Costanzo, P. J. "Controlling surface energy and wetability with Diels-Alder chemistry." American Chemical Society: Anaheim, CA. 27 MAR 2011.

17) Swanson, J. P.*, Roy, S. E., Rozvadovsky, S. Costanzo, P. J. "Polymer phase-change materials based upon Diels-Alder Chemistry." American Chemical Society: Anaheim, CA. 27 MAR 2011.

16) Richardson, A. D., McNair, O., Strange, G. A., Early, M., R., Costanzo, P. J., Savin, D. A.* "Nanoparticle dispersion and energy damping in polymer composites." American Chemical Society: Boston, MA. 24 AUG 2010.

15) Dirlam, P. T., Strange, G. A., Costanzo, P. J.* "Controlling surface energy and wet-ability with stimuli-responsive surfaces. " American Chemical Society: San Francisco, CA. 25 MAR 2010.

14) Swanson, J. P.*, Rozvadovsky, S., Costanzo, P. J. "Polymeric phase-change materials based upon Diels-Alder chemistry." American Chemical Society: San Francisco, CA. 21 MAR 2010. Swanson ***received an Undergraduate Travel Award***.

13) Dirlam, P. T., Strange, G. A, Costanzo, P. J.* "Controlling Surface Energy and Wetability with Diels-Alder Chemistry." **Invited Speaker:** Western Coating Symposium: Las Vegas, NV. 27 OCT 2009. Costanzo ***received Outstanding Technical Presentation award.***

12) Rozvadovsky, S., Swanson, J. P., Costanzo, P. J.*, Jensen, R. E. "Tailored Polymers for Insensitive Munitions Based upon Diels-Alder Chemistry." American Chemical Society: Washington, DC. 20 AUG 2009.

11) Carlson, J., Dirlam, P.T., Hill, M. R., Rozvadovsky, S., Strange, G.A, Swanson, J. P. Costanzo, P. J.* "Research in the Costanzo lab… Development of thermo-responsive materials utilizing Diels-Alder chemistry and novel crosslinking methodology" **Invited Speaker:** Army Research Laboratory, Aberdeen Proving Ground, MD. 12 AUG 2009.

10) Rozvadovsky, S., Swanson, J. P., Costanzo, P. J.*, Jensen, R. E. "Tailored Polymers for Insensitive Munitions Based upon Diels-Alder Chemistry." **Invited Speaker:** Naval Research Laboratory, Indian Head, MD. 11 AUG 2009.

External Oral Presentations continued …

Completed at the Army Research Laboratory - Costanzo was presenter at all listed presentations

9) "New applications from old technology utilizing Diels-Alder chemistry and block copolymers." Gordon Research Conference: Ventura, CA. 6 JAN 2007.

8) "Controlling additive dispersion and migration properties with block copolymers and Diels-Alder chemistry." American Chemical Society: San Francisco, CA. 12 SEP 2006.
7) "Thermo-responsive film based upon Diels-Alder chemistry and block copolymer phase separation." American Chemical Society: Atlanta, GA. 28 MAR 2006.

Completed at the University of California at Davis - Costanzo was presenter at all listed presentations

6) "Formation of end-functionalized poly(thiophene) via Grignard Metathesis Coupling." American Chemical Society: Atlanta, GA. 26 MAR 2006.
5) "Biological detection based upon nanoaggregation." Materials Research Society: San Francisco, CA. 30 MAR 2005.
4) "Synthesis and aggregation mechanism of nanostructures comprised of biotinylated CdS@SiO_2 nanoparticles." Materials Research Society: San Francisco, CA. 14 APR 2004.

Completed at the University of California at Davis - Costanzo was presenter at all listed presentations

3) "Biological sensing using nanoaggregation." Materials Research Society: San Francisco, CA. 13 APR 2004.
2) "Synthesis, assembly mechanism, and sensor application of nanostructures comprised of biotinylated CdS@SiO_2 nanoparticles." American Chemical Society: Anaheim, CA. 28 MAR 2004.
1) "Synthesis of a novel biological sensor based on nanoaggregation." **Invited Speaker:** Hartnell College. Salinas, CA. 22 OCT 2003.

Short Course / Workshop Presentations

36) "Polymer synthesis laboratory experiments." Cal Poly: Polymers and Coatings Short Course. San Luis Obispo, CA. 22 JUL 2015. *29 external participants*
35) "Polymer synthesis laboratory experiments." Cal Poly: Polymers and Coatings Short Course. San Luis Obispo, CA. 21 JUL 2015. *29 external participants*
34) "Polymer synthesis laboratory experiments." Cal Poly: Polymers and Coatings Short Course. San Luis Obispo, CA. 20 JUL 2015. 2*9 external participants*
33) "Organic Polymer Chemistry." Cal Poly: Polymers and Coatings Short Course. San Luis Obispo, CA. 20 JUL 2014. 2*9 external participants*
32) "Advanced Polymerization Methods for Coatings" Cal Poly: Polymers and Coatings Short Course. San Luis Obispo, CA. 3 FEB 2015. *35 external participants*
31) "Resin Technologies (Overview, Solvent, 2K)." Cal Poly: Polymers and Coatings Short Course. San Luis Obispo, CA. 2 FEB 2015. *35 external participants*
30) "Polymer synthesis laboratory experiments." Cal Poly: Polymers and Coatings Short Course. San Luis Obispo, CA. 4 AUG 2014. *19 external participants*
29) "Organic Polymer Chemistry." Cal Poly: Polymers and Coatings Short Course. San Luis Obispo, CA. 4 AUG 2014. *19 external participants*
28) "Advanced Polymerization Methods for Coatings" Cal Poly: Polymers and Coatings Short Course. San Luis Obispo, CA. 11 FEB 2014. *24 external participants*
27) "Resin Technologies (Overview, Solvent, 2K)." Cal Poly: Polymers and Coatings Short Course. San Luis Obispo, CA. 10 FEB 2014. *24 external participants*
26) "Polymer synthesis laboratory experiments." Cal Poly: Polymers and Coatings Short Course. San Luis Obispo, CA. 24 JUL 2013. *15 external participants*
25) "Polymer synthesis laboratory experiments." Cal Poly: Polymers and Coatings Short Course. San Luis Obispo, CA. 23 JUL 2013. *15 external participants*
24) "Polymer synthesis laboratory experiments." Cal Poly: Polymers and Coatings Short Course. San Luis Obispo, CA. 22 JUL 2013. *15 external participants*

Resume Continues...

Short Course / Workshop Presentations continued…

23) "Organic Polymer Chemistry." Cal Poly: Polymers and Coatings Short Course. San Luis Obispo, CA. 22 JUL 2013. *15 external participants*
22) "Advanced Polymerization Methods for Coatings" Cal Poly: Polymers and Coatings Short Course. San Luis Obispo, CA. 12 FEB 2013. *25 external participants*

21) "Resin Technologies (Overview, Solvent, 2K)." Cal Poly: Polymers and Coatings Short Course. San Luis Obispo, CA. 11 FEB 2013. *25 external participants*
20) "Polymer synthesis laboratory experiments." Cal Poly: Polymers and Coatings Short Course. San Luis Obispo, CA. 17 JUL 2012. *21 external participants*
19) "Polymer synthesis laboratory experiments." Cal Poly: Polymers and Coatings Short Course. San Luis Obispo, CA. 16 JUL 2012. *21 external participants*
18) "Organic Polymer Chemistry." Cal Poly: Polymers and Coatings Short Course. San Luis Obispo, CA. 16 JUL 2012. *21 external participants*
17) "Advanced Polymerization Methods for Coatings" Cal Poly: Polymers and Coatings Short Course. San Luis Obispo, CA. 7 FEB 2012. *24 external participants*
16) "Resin Technologies (Overview, Solvent, 2K)." Cal Poly: Polymers and Coatings Short Course. San Luis Obispo, CA. 6 FEB 2012. *24 external participants*
15) "Polymer synthesis laboratory experiments." Cal Poly: Polymers and Coatings Short Course. San Luis Obispo, CA. 19 JUL 2011. *20 external participants*
14) "Polymer synthesis laboratory experiments." Cal Poly: Polymers and Coatings Short Course. San Luis Obispo, CA. 18 JUL 2011. *20 external participants*
13) "Organic Polymer Chemistry." Cal Poly: Polymers and Coatings Short Course. San Luis Obispo, CA. 18 JUL 2011. *20 external participants*
12) "Advanced Polymerization Methods for Coatings" Cal Poly: Polymers and Coatings Short Course. San Luis Obispo, CA. 8 FEB 2011. *26 external participants*
11) "Resin Technologies (Overview, Solvent, 2K)." Cal Poly: Polymers and Coatings Short Course. San Luis Obispo, CA. 7 FEB 2011. *26 external participants*
10) "Polymer synthesis laboratory experiments." Cal Poly: Polymers and Coatings Short Course. San Luis Obispo, CA. 20 JUL 2010. *20 external participants*
9) "Polymer synthesis laboratory experiments." Cal Poly: Polymers and Coatings Short Course. San Luis Obispo, CA. 19 JUL 2010. *20 external participants*
8) "Organic Polymer Chemistry." Cal Poly: Polymers and Coatings Short Course. San Luis Obispo, CA. 19 JUL 2010. *20 external participants*
7) "Advanced Polymerization Methods for Coatings" Cal Poly: Polymers and Coatings Short Course. San Luis Obispo, CA. 9 FEB 2010. *22 external participants*
6) "Resin Technologies (Overview, Solvent, 2K)." Cal Poly: Polymers and Coatings Short Course. San Luis Obispo, CA. 8 FEB 2010. *22 external participants*
5) "Polymer synthesis laboratory experiments." Cal Poly: Polymers and Coatings Short Course. San Luis Obispo, CA. 14 JUL 2009. *20 external participants*
4) "Polymer synthesis laboratory experiments." Cal Poly: Polymers and Coatings Short Course. San Luis Obispo, CA. 13 JUL 2009. *20 external participants*
3) "Organic Polymer Chemistry." Cal Poly: Polymers and Coatings Short Course. San Luis Obispo, CA. 13 JUL 2009. *20 external participants*
2) "Advanced Polymerization Methods for Coatings" Cal Poly: Polymers and Coatings Short Course. San Luis Obispo, CA. 10 FEB 2009. *18 external participants*
1) "Resin Technologies (Overview, Solvent, 2K)." Cal Poly: Polymers and Coatings Short Course. San Luis Obispo, CA. 9 FEB 2009. *18 external participants*

Internal Oral Presentations

(Presenting authors are denoted with an *. Cal Poly undergraduates are underlined. All work was completed at Cal Poly.**)**

34) Costanzo, P. J.* "Costanzo lab: a case study for PUI research" Cal Poly: Frost Post-Doc. San Luis Obispo, CA. 13 NOV 2024.

33) Vaughan, T. R.*, Costanzo, P. J. "Development of a Debondable Adhesive to Enable a Circular Economy through Disassembly." Cal Poly: CSU Research Competition. San Luis Obispo, CA. 26 APR 2024. *Selected for CSU competition.*

32) Kirshner, A. B.,*, Costanzo, P. J. "Re/Up-Cycling With Nucleophile-Induced Retro-Diels-Alder Chemistry." Cal Poly: CSU Research Competition. San Luis Obispo, CA. 26 APR 2024.

31) Ng, F. G.*, Costanzo, P. J. "Thermo-Responsive Polymer Cell Therapy For Treatment of Peripheral Artery Disease." Cal Poly: CSU Research Competition. San Luis Obispo, CA. 26 APR 2024.

30) Costanzo, P. J.* "Adventures in PJC4LYFE…" Cal Poly: Departmental Seminar. San Luis Obispo, CA. 15 JAN 2021.

29) Gosting, S. E.*, Costanzo, P. J. "Development of Polymer Scintillators." Cal Poly: Frost Summer Research Symposium. San Luis Obispo, CA. 29 AUG 2018.

28) Rhoads, R. H., Gregory, C. M..*, Colt, T. A.*, Costanzo, P. J. "Incorporating Diels-Alder chemistry to prepare thermally responsive materials." Cal Poly: Frost Summer Research Symposium. San Luis Obispo, CA. 18 AUG 2017.

27) Gregory, C. M..*, Colt, T. A.*, Costanzo, P. J. "Incorporating Diels-Alder chemistry to prepare thermally responsive materials." Cal Poly: Frost Summer Research Symposium. San Luis Obispo, CA. 12 AUG 2016.

26) Ventura, A. M.*, Costanzo, P. J. "Incorporation of Cysteine Functional Groups for Novel Polymer Coupling Based Upon Thiazolidine Chemistry." Cal Poly: CSU Research Competition. San Luis Obispo, CA. 20 FEB 2016.

25) Crenshaw, E, D.*, Costanzo, P. J. "Incorporation of Diels-Alder Chemistry into Polymer Matrices." Cal Poly: CSU Research Competition. San Luis Obispo, CA. 20 FEB 2016.

24) Liu, C. H.*, Costanzo, P. J., Martinez, A. W. "Reagent Pencil Characterization for Microfluidic Paper Based Analytic Devices." Cal Poly: CSU Research Competition. San Luis Obispo, CA. 20 FEB 2016. *Selected for CSU competition.*

23) Noxon, I. C.*, Costanzo, P. J., Martinez, A. W. "Characterization of reagent pencils for solvent-free depositions of reagents onto paper-based diagnostic devices." Cal Poly: CSU Research Competition. San Luis Obispo, CA. 7 FEB 2015. *Selected for CSU competition.*

22) Liu, C. H.*, Costanzo, P. J., Martinez, A. W. "Characterization of reagent pencils for solvent-free depositions of reagents onto paper-based diagnostic devices." Cal Poly: CSU Research Competition. San Luis Obispo, CA. 7 FEB 2015. *Selected for CSU competition.*

21) Monteleone, L. R.*, Cruz, M. A.*, Costanzo, P. J. "Controlling Surface Energy and Wettability with a Light Responsive Linker System." Cal Poly: CSU Research Competition. San Luis Obispo, CA. 7 FEB 2015. *Selected for CSU competition.*

20) De Hoe, G. X.*, Costanzo, P. J. "Synthetic Design of Block Copolymer Amphiphiles for Nanomaterial Dispersion." Cal Poly: CSU Research Competition. San Luis Obispo, CA. 8 FEB 2014. *Selected for CSU competition.*

19) Kleine, T. S.*, London, A. E., Costanzo, P. J. "Novel Polymer Topology Achieved Through Use of Diels-Alder Chemistry." Cal Poly: CSU Research Competition. San Luis Obispo, CA. 8 FEB 2014.

18) Pattillo, C. P.*, Costanzo, P. J. "Controlling Surface Energy and Wettability with a Light Responsive Linker System." Cal Poly: CSU Research Competition. San Luis Obispo, CA. 2 MAR 2013. *Selected for CSU competition.*

17) Ningrum, D. U.* Costanzo, P. J. "Re-healable Coatings Based Upon Thermally Responsive Linkages." Cal Poly: CSU Research Competition. San Luis Obispo, CA. 2 MAR 2013. *Selected for CSU competition.*

16) Dean, J. M*, Costanzo, P. J. "Development of Thermally Responsive Polymer Matrices." Cal Poly: COSAM Research Event. San Luis Obispo, CA. 11 MAY 2012.

15) Roy, S. E.*, Costanzo, P. J. "Development of renewable polymeric phase change materials via Diels-Alder Chemistry." Cal Poly: CSU Research Competition. San Luis Obispo, CA. 25 FEB 2012.

Resume Continues...

Internal Oral Presentations continued…

(Presenting authors are denoted with an *. Cal Poly undergraduates are underlined. All work was completed at Cal Poly.**)**

14) Hill, M. R.*, Costanzo, P. J., "Modular oxime functionalization of well-defined alkoxyamine-containing polymers." Cal Poly: CSU Research Competition. San Luis Obispo, CA. 25 FEB 2012. *Selected for CSU competition.*

13) Grau, W. C.*, Mann, S. I.*, Mackenzie, M. C., Costanzo, P. J. and Immoos, C. E. "Investigation into metallo-biomimetics for exploration of SOD reactivity." Cal Poly: CSU Research Competition. San Luis Obispo, CA. 25 FEB 2012. *Selected for CSU competition.*

12) Roland, C. D.*, Costanzo, P. J. "Dynamic topology of thermally-responsive materials via Diels-Alder chemistry." Cal Poly: CSU Research Competition. San Luis Obispo, CA. 25 FEB 2012.

11) Dirlam, P. T.*, Costanzo, P. J. "Controlling surface energy and wetability with Diels-Alder chemistry." Cal Poly: CSU Research Competition. San Luis Obispo, CA. 26 FEB 2011.

10) Strange, G. A.*, Costanzo, P. J. "Controlling nanoparticle dispersion via Diels-Alder chemistry." Cal Poly: CSU Research Competition. San Luis Obispo, CA. 26 FEB 2011. *Selected for CSU competition*

9) Roy, S. E.*, Swanson, J. P., Costanzo, P. J. "Development of Thermally Responsive Binders Designed for Insensitive Munitions." Cal Poly: Summer Student Research Seminar. San Luis Obispo, CA. 19 AUG 2010.

8) Mackenzie, M. C.*, Grau, W. C.*, Immoos, C. E., Costanzo, P. J. "Merging metallo-biomimetics and "Click" chemistry for the investigation of SOD reactivity" Cal Poly: Summer Student Research Seminar. San Luis Obispo, CA. 19 AUG 2010.

7) Roland, C. D.*, Costanzo, P. J. "Development of Thermally Responsive Polymer Matrices." Cal Poly: Summer Student Research Seminar. San Luis Obispo, CA. 19 AUG 2010.

6) Hill, M. R.*, Carlson, J. S., Costanzo, P. J. "Development of New Crosslinking Reactions." Cal Poly: Summer Student Research Seminar. San Luis Obispo, CA. 19 AUG 2010.

5) Strange, G. A.*, Costanzo, P. J. "Controlling nanoparticle dispersion via Diels-Alder chemistry." Cal Poly: Summer Student Research Seminar. San Luis Obispo, CA. 19 AUG 2010.

4) Carlson, J. S.*, Costanzo, P. J. "Novel polymer coupling chemistry based upon latent cysteine-like functionality." Cal Poly : CSM Student presentations. San Luis Obispo, CA. 14 MAY 2010.

3) Swanson, J. P.*, Costanzo, P. J. "Tailored Polymers for Insensitive Munitions Based upon Diels-Alder Chemistry." Cal Poly: Summer Student Research Seminar. San Luis Obispo, CA. 26 AUG 2009.

2) Rozvadovsky, S.*, Costanzo, P. J. "Synthesis and Optimization of Thermally Responsive Binders." Cal Poly: Summer Student Research Seminar. San Luis Obispo, CA. 22 AUG 2008.

1) Costanzo, P. J.* "Research in the Costanzo lab…" Cal Poly: Departmental Seminar. San Luis Obispo, CA. 17 JAN 2008.

External Poster Presentations (Presenting authors are denoted with an *. Cal Poly undergraduates are underlined.)

Completed at California Polytechnic State University

68) McIlroy, R. M.,* Bercovici, D. A., Costanzo, P. J. "Implementation of nucleophile-induced retro-Diels-Alder chemistry to prepare materials with responsive molecular weights." American Chemical Society: Atlanta, GA 24 MAR 26.

67) Mesde, E. R.,* Bercovici, D. A., Costanzo, P. J. "Implementation of nucleophile-induced retro-Diels-Alder chemistry to prepare dynamic surfactants." American Chemical Society: Atlanta, GA 24 MAR 26. Mesde ***received the award for Outstanding Undergraduate Presentation in the POLY division of ACS.***

66) Donnelly, R. D.,* Costanzo, P. J. "Development and optimization of a debondable adhesive using Diels-Alder chemistry." American Chemical Society: Atlanta, GA 24 MAR 26.

65) Donnelly, R. D., Dudiak, H. R., Hyde, R. T., Kellar, R. A., Newcomer, S. G., Patierno, J. A., Stokes, K. K., Costanzo, P. J.* "D-Glue: A debondable adhesive platform." Stimuli Responsive Materials. Windsor, CA. 22 OCT 2024

External Oral Presentations continued …

(Presenting authors are denoted with an *. Cal Poly undergraduates are underlined.)

Completed at California Polytechnic State University continued…

64) Kirshner, A. B.*, Smith, E. C., Wong, N. S., Pham, K. S., Bercovici, D. A., Costanzo, P. J. "Manipulation of molecular topology using nucleophile-induced retro-Diels-Alder chemistry." American Chemical Society: Indianapolis, IN. 28 MAR 2023

63) Apel, R. G.*, Wong, N. S., Bercovici, D. A., Costanzo, P. J. "Development of nucleophile-induced retro-Diels-Alder chemistry." American Chemical Society: Indianapolis, IN. 28 MAR 2023

62) L'Heureux, S. J.*, McMullen, C. C., Richardson, A. D., Malouf, D. M., Henry, A. V., McDonough, E. A., Williams, Q. E., Sheng, J. Y., Costanzo, P. J., Bercovici, D. A. "Understanding the role of hydrogen-bonding in the fragmentation kinetics of Ylidenenorbornadiene adducts." American Chemical Society: Las Vegas, NV. 22 OCT 22.

61) McMullen, C. C.*, Guerrero, G. P., Fleisher, C. J., Williams, Q. E., Henry, A. V., Reynafrarje, T. R., McDonough, E. A., Thurman, S. E., Soeller, J. E., Costanzo, P. J., Bercovici, D. A. "Ylidenenorbornadiene dicarboxylates (YNDs) – Tunable Amphiphiles for Micellar Cargo." American Chemical Society: Las Vegas, NV. 22 OCT 22. McMullen **received an Outstanding Poster Award**.

60) Henry, A. M.*, McDonough, E., Malouf, D., Medhurst, E., Sheng, J., Canales, A., Cecil, T., Munson, J., Fleischer, C, Costanzo, P. J., Bercovici, D. A. "Ylidenenorbornadiene carboxylates (YNDs): Experimental kinetic analysis of a nucleophile-induced retro-[4+2] fragmentation." American Chemical Society: San Diego, CA. 22 MAR 2022.

59) Richardson, A. G., Malouf, D., Costanzo, P. J., Bercovici, D. A. "Experimetnal and computational kinetic analysis of the nucleophile-induced retro-[4+2] fragmentation of ylidenenorbornadiene dicarboxylate diastereomers." American Chemical Society: San Diego, CA. 22 MAR 2022.

58) Hunter, M. A.*, Meyersohn, M. S., Gosting, S. E., Skinner, N. M., Costanzo, P. J. "Manipulation of molecular topology and composition using Diels-Alder chemistry." American Chemical Society: Orlando, FL. 2 APR 2019.

57) Wilborn, E. G.*, Gregory, C. M., Page, T. M. Costanzo, P. J. "Controlling polymer solubility with Diels-Alder chemistry and LCST." American Chemical Society: New Orleans, LA. 19 MAR 2018. ***Selected for Sci-Mix Presentation.***

56) Schoch, T. D.*, Martinez, M. R., Meyersohn, M. S., Markmann, M. R., Costanzo, P. J. "Molecular weight changing polymers via Diels-Alder chemistry." American Chemical Society: San Francisco, CA 4 APR 2017.

55) Meyersohn, M. S.*, Markmann, M. R., Costanzo, P. J. "Inversion of molecular topology and composition using Diels-Alder chemistry." American Chemical Society: San Francisco, CA 4 APR 2017.

54) Schoch, T. D.*, Martinez, M. R., Meyersohn, M. S., Markmann, M. R., Costanzo, P. J. "Molecular weight changing polymers via Diels-Alder chemistry" American Chemical Society: San Francisco, CA 3 APR 2017. ***Selected for Sci-Mix Presentation.***

53) Meyersohn, M. S.*, Markmann, M. R., Costanzo, P. J. "Inversion of molecular topology and composition using Diels-Alder chemistry." American Chemical Society: San Francisco, CA 3 APR 2017. ***Selected for Sci-Mix Presentation.***

52) Morgan, S. E, Aubrecht, K. B., Berda, E. B., Cavicchi, K. A., Costanzo, P. J., Gabriel, G. J., Goh, C. Goh, S. L., Iacono., S. T., Savin, D. A. "Online resources for the polymer education community." American Chemical Society: San Diego, CA. 15 MAR 2016.

51) Morgan, S. E, Aubrecht, K. B., Berda, E. B., Cavicchi, K. A., Costanzo, P. J., Gabriel, G. J., Goh, C. Goh, S. L., Iacono., S. T., Savin, D. A. "Online resources for the polymer education community." American Chemical Society: San Diego, CA. 14 MAR 2016. ***Selected for Sci-Mix Presentation.***

50) Barcus, K. S.*, Crenshaw, E. D., Markmann, M. R., Costanzo, P. J. "Incorporation of Diels-Alder chemistry into polymer matrices via an inimer approach." American Chemical Society: San Diego, CA 15 MAR 2016.

Resume Continues...

External Poster Presentations continued …

(Presenting authors are denoted with an *. Cal Poly undergraduates are underlined.**)**

Completed at California Polytechnic State University continued…

49) Barcus, K. S.*, Crenshaw, E. D., Markmann, M. R., Costanzo, P. J. "Incorporation of Diels-Alder chemistry into polymer matrices via an inimer approach." American Chemical Society: San Diego, CA 14 MAR 2016. ***Selected for Sci-Mix***.

48) Markmann, M. R.*, Martinez, M. R., Costanzo, P. J. "Molecular weight changing polymers via Diels-Alder chemistry." Western Coating Symposium: Las Vegas, NV. 26 OCT 2015.

47) Crenshaw, E. D.*, Barcus, K. S., Kleine, T. S., Markmann, M. R., Costanzo, P. J. "Incorporation of Diels-Alder chemistry into polymer matrices via an inimer approach." Western Coating Symposium: Las Vegas, NV. 26 OCT 2015.

46) Alameda, B. A., Feist, S., Bass, G. F., Seaver, C. P., Kha, K., Kelley, B. A., Scott, G. E., Immoos, C. E., Costanzo, P. J.* "Synthetic design and investigation of novel polymeric surfactants." Western Coating Symposium: Las Vegas, NV. 26 OCT 2015.

45) Ross, A. S.*, Monteleone, L. R., Cruz, M., A., Pattillo, C. P.,, Costanzo, P. J. "Controlling surface energy and wetability with a light responsive linker system." Western Coating Symposium: Las Vegas, NV. 26 OCT 2015.

44) Martinez, M. R.*, Markmann, M. R., Costanzo, P. J. "Molecular weight changing polymers via Diels-Alder chemistry." American Chemical Society: Denver, CO. 24 MAR 2015

43) Crenshaw, E. D.*, Kleine, T. S., London, A. E., Markmann, M. R., Costanzo, P. J. "Incorporation of Diels-Alder chemistry into polymer matrices via an inimer approach." American Chemical Society: Denver, CO. 24 MAR 2015. Crenshaw ***received an Undergraduate Travel Award***.

42) Bass, G. F., Colt, M. S., Chavez, A. D., DeHoe, G. X., Seaver, C. P., Kha, K., Kelley, B. A., Scott, G. E., Immoos, C. E., Costanzo, P. J.* "Synthetic design and investigation of novel polymeric surfactants." Gordon Research Conference: Ventura, CA. 10 JAN 2015.

41) Monteleone, L. R.*, Ross, A. S.*, Cruz, M., A., Cattillo, C. P.,, Costanzo, P. J. "Controlling surface energy and wetability with a light responsive linker system." American Chemical Society: Dallas, TX. 18 MAR 2014.

40) Morgan, S. E, Aubrecht, K. B., Berda, E. B., Cavicchi, K. A., Costanzo, P. J., Gabriel, G. J., Goh, C. Goh, S. L., Iacono., S. T., Savin, D. A. "Polymer science curriculum for the 21st century : PUNK." American Chemical Society: Dallas, TX. 17 MAR 2014. ***Selected for Sci-Mix Presentation.***

39) Monteleone, L. R.*, Ross, A. S.*, Cruz, M., A., Pattillo, C. P.,, Costanzo, P. J. "Controlling surface energy and wetability with a light responsive linker system." American Chemical Society: Dallas, TX. 17 MAR 2014. Selected for Sci-Mix Presenation.

38) Morgan, S. E, Aubrecht, K. B., Berda, E. B., Cavicchi, K. A., Costanzo, P. J., Gabriel, G. J., Goh, C. Goh, S. L., Iacono., S. T., Savin, D. A. "Polymer science curriculum for the 21st century : PUNK." American Chemical Society: Dallas, TX. 17 MAR 2014.

37) Dehoe, G. X.,* Formal, T. P., Chavez, A. D., O'Bryan, G., Costanzo, P. J. "Synthetic design of block copolymer amphiphiles for nanomaterial dispersion." Western Coating Symposium: Las Vegas, NV. 22 OCT 2013.

36) Kleine, T. S.,* London, A. E.,* Roland, C. D., and Costanzo, P. J.* "Transparent, thermally-responsive coating." Western Coating Symposium: Las Vegas, NV. 22 OCT 2013.

35) Varney, K. L.,* Amato, D. U., and Costanzo, P. J. "Re-healable Coatings Based Upon Thermally Responsive Linkages." Western Coating Symposium: Las Vegas, NV. 22 OCT 2013. Varney ***received Best Technical Student Poster award - 3rd place.***

All work was completed by a Cal Poly undergraduate and graduate student (Amato) at Cal Poly.

34) Kleine, T. S.*, Roland, C. D., London, A. E. and Costanzo, P. J. "Dynamic topology of thermally-responsive materials via Diels-Alder chemistry." American Chemical Society: New Orleans, LA. 9 APR 2013. Kleine ***received an Undergraduate Travel Award***.

External Poster Presentations continued …

(Presenting authors are denoted with an *. Cal Poly undergraduates are underlined.**)**

Completed at California Polytechnic State University continued…

33) Machado, C. A.* Dean, J. M., and Costanzo, P. J. "Preparation of thermally-responsive polyurethanes based upon Diels-Alder chemistry." American Chemical Society: New Orleans, LA. 9 APR 2013. Machado *received an Undergraduate Travel Award*.

32) Machado, C. A.*, Dean, J. M., and Costanzo, P. J. "Preparation of thermally-responsive polyurethanes based upon Diels-Alder chemistry." American Chemical Society: New Orleans, LA. 8 APR 2013. *Selected for Sci-Mix Presentation.*

31) Kleine, T. S., Roland, C. D., London, A. E. and Costanzo, P. J.* "Dynamic topology of thermally-responsive materials via Diels-Alder chemistry." Gordon Research Conference: Ventura, CA. 7 JAN 2013.

30) Mann, S. I.*, Grau, W. C. Mackenzie, M. C., McMahon, M. L., Costanzo, P. J. and Immoos, C. E. "Utilizing "click chemistry" to incorporate MnSOD mimics into polymer scaffolds." American Chemical Society: San Diego, CA. 26 MAR 2012. Selected for Sci-Mix Presentation.

29) Mann, S. I.*, Grau, W. C. Mackenzie, M. C., McMahon, M. L., Costanzo, P. J. and Immoos, C. E. "Utilizing "click chemistry" to incorporate MnSOD mimics into polymer scaffolds." American Chemical Society: San Diego, CA. 25 MAR 2012.

28) Grau, W. C.*, Mackenzie, M. C, Mann, S. I., Lent, B. M., Costanzo, P. J. and Immoos, C. E. "Electronic and structural influences on SOD-like activity of Mn(III) Schiff base complexes." American Chemical Society: San Diego, CA. 25 MAR 2012.

27) Chavez, A. D.*, Dean, J. M., Strange, G. A., Costanzo, P. J. "Develop of a library of Diels-Alder linkage systems." American Chemical Society: San Diego, CA. 25 MAR 2012.

26) Strange, G. A.*, Richardson, A. D., Savin, D. A., Costanzo P. J. "Controlling nanoparticle dispersion via Diels-Alder chemistry." Western Coating Symposium: Las Vegas, NV. 24 OCT 2011. Strange *received Best Technical Student Poster award - 1st place.*

25) Roland, C. D*, Orlicki, J. A. Costanzo, P. J. "Transparent, thermally-responsive coating." Western Coating Symposium: Las Vegas, NV. 24 OCT 2011. Roland *received Best Technical Student Poster award - 3rd place.*

24) Hill, M. R.*, Carlson, J. S., Costanzo, P. J. "Novel polymer coupling chemistry based upon latent cysteine-like functionality." Western Coating Symposium: Las Vegas, NV. 24 OCT 2011. Hill *received Best Technical Student Poster award - Honorable mention*

23) Mackenzie, M. C.*, Mann, S. I.*, Grau, W. C., Costanzo, P. J. and Immoos, C. E. "Merging metallo-biomimetics and "Click" chemistry for the investigation of SOD reactivity." American Chemical Society: Anaheim, CA. 28 MAR 2011. Selected for Sci-Mix Presentation.

22) Mackenzie, M. C.*, Mann, S. I., Grau, W. C., Costanzo, P. J. and Immoos, C. E. "Merging metallo-biomimetics and "Click" chemistry for the investigation of SOD reactivity." American Chemical Society: Anaheim, CA. 27 MAR 2011.

21) Bentz, K. C.*, Costanzo, P. J., Immoos, C. E., Vorst, K. "Synthesis and characterization of linear and branched polylactic acid for use in coatings and adhesives for paper packaging." American Coatings Society: Chicago, IL. 15 MAR 2011.

20) Hill, M. R., Carlson, J. S., Costanzo, P. J.* "Novel polymer coupling chemistry based upon latent cysteine-like functionality." Gordon Research Conference: Ventura, CA. 10 JAN 2011.

19) Yoo, H., Bull, M. M., Chung, W-J., Dirlam, P. T., Pyun, J. "Functionalization of ferromagnetic cobalt nanoparticles via ligand exchange with polymeric ligands." American Chemical Society: Boston, MA. 23 AUG 2010.

18) McMahon, M. L.*, Jaoudi, M., Immoos, C. E., Costanzo, P. J. "Systematic Design of Reactive Surface Coatings." American Coatings Society: Charlotte, NC. 13 APR 2010.

External Poster Presentations continued …

(Presenting authors are denoted with an *. Cal Poly undergraduates are underlined.)

Completed at California Polytechnic State University continued…

17) Carlson, J. S.*, Hill, M. R., Costanzo, P. J. "Novel polymer coupling chemistry based upon latent cysteine-like functionality." American Chemical Society: San Francisco, CA. 22 MAR 2010.

16) Strange, G. A.*, Richardson, A. D., Savin, D. A., Costanzo P. J. "Controlling nanoparticle dispersion via Diels-Alder chemistry." American Chemical Society: San Francisco, CA. 22 MAR 2010.

15) Jaoudi, M.*, Swanson, J. P., Costanzo, P. J., Immoos, C. E., "Synthesis and rational design of metal/ligand catalyst systems utilizing "Click" chemistry." American Chemical Society: San Francisco, CA. 22 MAR 2010.

14) Harvey, V. L.*, Wagner, M. A., Costanzo, P. J., Immoos, C. E., "Synthesis of fluorescence-based NO detection probes by "Click" chemistry." American Chemical Society: San Francisco, CA. 22 MAR 2010.

13) Curtzwiler, G. W. *, Costanzo, P. J., Fernando, R., Vorst, K. "Thermal Initiated Hydroxyethyl Methacrylate Functionalization of Multi-Walled Carbon Nanotubes." Western Coating Symposium: Las Vegas, NV. 26 OCT 2009. Curtzwiler ***received Best Technical Student Poster award.***

12) Dirlam, P. T. *, Strange, G. A *, Costanzo, P. J. "Controlling Surface Energy and Wet-ability with Diels-Alder Chemistry." Western Coating Symposium: Las Vegas, NV. 26 OCT 2009.

All work was completed by Cal Poly undergraduates at Cal Poly and the Army Research Laboratory (ARL). Dirlam and Strange ***received Best Technical Student Poster - Runner up award.***

11) Dirlam, P. T. *, Strange, G. A, Orlicki, J. A., Wetzel, E. D., Costanzo, P. J. "Development of Self-Pressurizing Capillaries using Diels-Alder Chemistry." American Chemical Society: Washington, DC. 17 AUG 2009. Selected for Sci-Mix Presentation.

10) Richardson, A. D.*, Strange, G. A., Costanzo, P. J., Savin, D. A. "Effect of polymer tethering on dispersions of silica nanoparticles in crosslinked epoxy composites" American Chemical Society: Washington, DC. 16 AUG 2009.

9) Dirlam, P. T. *, Strange, G. A, Orlicki, J. A., Wetzel, E. D., Costanzo, P. J. "Development of Self-Pressurizing Capillaries using Diels-Alder Chemistry." American Chemical Society: Washington, DC. 16 AUG 2009.

8) Rozvadovsky, S., Costanzo, P. J.*, Jensen, R. E. "Tailored Polymers for Insensitive Munitions." Gordon Research Conference: Ventura, CA. 13 JAN 2009.

7) Dirlam, P. T, Costanzo, P. J., Orlicki, J. A., Wetzel, E. D. "Development of Self-Pressurizing Capillaries using Diels-Alder Chemistry." Drexel University: MCOE Review. Philadelphia, PA. 10 NOV 2008.

Completed at the Army Research Laboratory - Costanzo was presenter at all listed presentations

6) "Controlling dispersion and aggregation properties of film additives with Diels-Alder chemistry." Gordon Research Conference: Ventura, CA. 9 JAN 2007.

Completed at the University of California at Davis - Costanzo was presenter at all listed presentations

5) "Synthesis of poly(ethylene glycol) grafted nanoparticles for biological sensing based upon nanoaggregation." Gordon Research Conference: Ventura, CA. 12 JAN 2005.

4) "Synthesis and aggregation mechanism of nanostructures comprised of biotinylated CdS@SiO_2 nanoparticles." American Chemical Society: New York, NY. 10 SEP 2003.

3) "Synthesis of an α-siloxy-ω-amino poly(ethylene glycol) for use in ligating biological molecules to nanoparticles." American Chemical Society: New Orleans, LA. 25 MAR 2003.

Completed at Carnegie Mellon University - Costanzo was presenter at all listed presentations

2) "Preparation and characterization of telehelic macromonomers." CRP Consortium: Pittsburgh, PA. 9 APR 2001.

1) "Synthesis and characterization of *n*-butyl acrylate / methyl methacrylate gradient copolymers." ATRP Consortium: Pittsburgh, PA. 9 OCT 2000.

Grants and Contracts

24) Primary investigator. "RUI: CAS: Re/Up-cycling with nucleophile-induced retro-Diels-Alder chemistry (NI-rDA)." Awarded $407,495 from SEP 2024 - AUG 2027 by the National Science Foundation.

23) Primary investigator. "Implementation of "Click and Clip" Chemistry for the Preparation of Destructive Surfactants." Awarded $70,000 from SEP 2024 - AUG 2027 by the Petroleum Research Foundation.
22) Primary investigator. "RUI: Creation and application of nucleophile-induced retro-Diels-Alder linkages in dynamic-covalent polymeric systems." Awarded $297,503 from SEP 2020 - AUG 2023 by the National Science Foundation.
21) Primary investigator. "Polymer Scintillator Development." Awarded $64,818 from NOV 2019 – SEP 2020 by Sandia National Laboratory.
20) Co-Primary investigator. "Developing Novel Stimuli-Responsive Polymer Systems." Awarded $17,991 from NOV 2019 – JUL 2020 by RSCA, California Polytechnic State University .
19) Primary investigator. "Development of responsive surfactants for improved oil recovery." Awarded $70,000 from SEP 2019 - AUG 2022 by the Petroleum Research Foundation.
18) Primary investigator. "Emulsion containing Diels-Alder linkages." Awarded $75,000 from JUN 2018 – MAY 2019 by Bona, Inc.
17) Co-Primary investigator. "Integrating biological chemistry with "click" chemistry for the development of novel bio-active materials." Awarded $15,000 from NOV 2017 – JUL 2018 by RSCA, California Polytechnic State University .
16) Primary investigator. "Organic Scintillator Development." Awarded $50,000 from NOV 2017 – JUL 2018 by Sandia National Laboratory.
15) Primary investigator. "RUI: Investigation into dynamic-covalent linkages through the use of Diels-Alder chemistry and controlled radical polymerization techniques." Awarded $210,000 from SEP 2017 - AUG 2020 by the National Science Foundation, CHE-MSN.
14) Primary investigator. "RUI: Preparation of Polymeric Phase Change materials based upon Diels-Alder chemistry." Awarded $210,000 from AUG 2012 - JUL 2016 by the National Science Foundation, CHE-MSN.
13) Primary investigator. "NIST-SURF Program." Awarded $8,500 from MAY 2015 - AUG 2015 by the NIST.
12) Co-Primary Investigator. "Online resources for the polymer education community." Awarded $23,000 from OCT 2013 - SEP 2014 by the Camille and Henry Dreyfus Foundation (Special Grant Program in the Chemical Sciences."
11) Primary investigator. "Novel polymer coupling via thiazolidine chemistry." Awarded $65,000 from SEP 2012 - AUG 2015 by the Petroleum Research Foundation.
10) Primary investigator. "Development of aerosol paint formulation." Awarded $9,500 from NOV 2012 - NOV 2013 by Color it New!, LLC.
9) Primary investigator. "Optimization of vampire teeth formulation." Awarded $5,000 from MAY 2011 - JUL 2011 by ScareCrow, Inc.
8) Primary investigator. "Easily processed Host-Guest polymer systems with high-Tg characterizatics." Awarded $47,947 from APR 2011 - JUN 2013 by the Army Research Laboratory.
7) Primary investigator. "Development of Thermally Responsive Binders Designed for Insensitive Munitions Applications." Awarded $56,661.00 from JAN 2011 - MAR 2012 by a C3RP subaward from Office of Naval Research to Cal Poly.
6) Co-Primary Investigator. "Aptamer-based Clinical Diagnostics in Paper-based Microfluidics Platforms." Awarded $58,257 from JAN 2011 - MAR 2012 by a C3RP subaward from Office of Naval Research to Cal Poly.
5) Primary Investigator. "Incorporation of latent cysteine-like residues for the development novel coupling chemistry." Awarded $46,000 from JUN 2010 - JUN 2012 from the Research Corporation, Cottrell College Science Awards.
4) Co-Primary Investigator. "Development of a bio-based and biodegradable polylactic acid spray coating and hot melt adhesive for corrugate and paperboard packages." Awarded $160,000 from JAN 2010 - JAN 2011 from LBP and Henkel.

Grants and Contracts continued …

External / Internal Funding continued…

2) Primary Investigator. "Development of Thermally Responsive Binders for Insensitive Munitions." Awarded $314,964 from APR 2008 - JUN 2011 by the Army Research Laboratory.
1) Primary Investigator. "Self-Regulating, Self-Presurizing Tubules of Integrated Circulatory Systems." Awarded $35,063 from FEB 2008 - FEB 2009 by Drexel University under a Material Center of Excellence Award.

Service

Department

- Member of POC Committee (2018 - current)
- CHEM 312/2240 coordinator (2012-2018, 2024 - current)
- Member of TEMFEC Committee (2015 - 2017)
- Contributed to TEMFEC evaluations (2018 - 2020)
- Member of Safety Committee (2009 - 2015)
- Chair of Safety Committee (2010 - 2012, 2013 - 2015)
- Member of Scheduling and Curriculum Committee (SCC) (2008 - 2011)
- Member of Chemistry Department Grievance Panel (2013 - Current)
- Member of faculty search committee for Open Hire (Spring 2015)
- Member of faculty search committee for Analytical Hire (Fall 2014)
- Member of faculty search committee for Wine Chemist Hire (Winter/Spring 2014)
- Member of faculty search committee for Biochemistry Hire (Fall 2013)
- Member of faculty search committee for Organic Chemist Hire (Fall 2013)
- Member of faculty search committee for General/Biochemistry Hire (Fall 2012)
- Member of faculty search committee for Polymer Hire (Fall 2010, Spring 2011)
- Member of faculty search committee for Lecture Hire (Summer 2009)
- Member of faculty search committee for General/Analytical Chemist Hire (Winter 2009)
- Member of faculty search committee for Organic Chemist Hire (Fall 2008)
- Served as Equitable Employment Facilitator (EEF) for Wine Chemist Hire (Winter/Spring 2014)
- Served as Equitable Employment Facilitator (EEF) for Organic Chemist Hire (Fall 2013)
- Served as Equitable Employment Facilitator (EEF) for General/Biochemistry Hire (Fall 2012)
- Served as Equitable Employment Facilitator (EEF) for Polymer Hire (Fall 2010, Spring 2011)
- Provided Departmental tour for President Armstrong (8 MAR 2011)
- Provided Departmental tour during WOW (15 SEP 2010; 15 SEP 2009; 17 SEP 2008)
- Organized Departmental tour for Cypress College (26 FEB 2015, 21 FEB 2013)
- Organized Science and Math night Demonstrations at Virginia Peterson Elementary (7 FEB 2013)
- Participated in Tehachapi School Demonstration (12 MAY 2011)
- Participated in the Campfire Kids Demonstration (5 APR 2008)
- Participated in the Partner School Demonstration (22 FEB 2008)
- Department Colloquium Coordinator (2012-2018, 2024 - Current)
- Organized and hosted industrial contact for Polymers and Coatings program: Steve Diamanti - CooperVision (30 OCT 2013)
- Organized and hosted seminar speaker: Mallory McMahon - Lubrizol (16 OCT 2015)
- Organized and hosted seminar speaker: Prof. Derek Patton - Univ. of Southern Mississippi (9 OCT 2015)
- Organized and hosted seminar speaker: Philip Dirlam - University of Arizona (16 JUL 2015)
- Organized and hosted seminar speaker: Prof. Abraham Joy - University of Akron (9 JUL 2015)
- Organized and hosted seminar speaker: Prof. Jon Pokorowski - Case Western University (2 JUL 2015)
- Organized and hosted seminar speaker: Prof. Dan Savin - Univ. of Southern Mississippi (23 OCT 2014)
- Organized and hosted seminar speaker: Prof. Brent Sumerlin - University of Florida (5 JUN 2014)
- Organized and hosted seminar speaker: John Swanson - U. Akron (17 APR 2014)
- Organized and hosted seminar speaker: Kyle Bentz / Greg Strange - Univ. of Southern Mississippi (12 NOV 2013)

Service continued…

Department continued…

- Organized and hosted seminar speaker: Prof. Todd Emrick - UMass (18 APR 2013)
- Organized and hosted seminar speaker: Dr. Andre Striegel - NIST (12 APR 2012)
- Gave Departmental Colloquium (16 JAN 2026)
- Gave Departmental Seminar (15 JAN 2021)
- Gave Departmental Seminar (17 JAN 2008)

College

- Faculty Advisor for Alpha Chi Sigma (2009 - current)
- Panelist - CENG Scholarship Academy (3 AUG 2020)
- Invited Speaker - CENG Scholarship Academy (3 AUG 2020)
- Chair/Member of DPRC – School of Education (2020-2021, 1 chair)
- Chair/Member of DPRC – School of Education (2019-2020, 1 chair, 2 member)
- Chair/Member of DPRC – School of Education (2018-2019, 3 chair)
- Chair/Member of DPRC – School of Education (2017-2018, 1 chair)
- Member of Academic Senate (SEP 2015 - AUG 2017)
- Member of College Advancement Planning (Spring 2011)
- Advised during the Summer SOAR program (4, 10, 16, 17 AUG 2010; 30 JUL 2009; 24 JUL 2008)
- Moderator for Undergraduate Research Opportunity Panel (1 NOV 2010)
- Member of the Graduate School Discussion Panel (19 MAY 2008)

University

- Faculty Fellow for Office of Research (2024 - current)
- Chair of Grants Reviewing Committee (2022 - current)
- Member of CENG Dean search committee (2017-2018)
- Member of Academic Senate (2015-2017)
- Member of Focus Group with President Armstrong (17 MAY 2011)
- Member of University search committee for Assistant Vice Provost of University Advising (Winter 2011)
- Guest speaker: Five Cities Men's Club (1 APR 2012)
- Guest lecturer: ENGL134-49 - Topic: Technical writing skills (21 OCT 2010)
- Participated in NSF Focus group for Women in Science (4 DEC 2008)

National

- Co-Chair of MACRO (APR 2016 - Current)
- Organized a research symposium at National American Chemical Society Conference (Fall 2020)
- Organized a research symposium at National American Chemical Society Conference (Fall 2010)
- Active reviewer for funding agencies
  - National Science Foundation (NSF)
  - Petroleum Research Fund (PRF)
  - Cottrell foundation
  - The Army Research Office (ARO)
- Active reviewer for peer-reviewed publications
  - *Macromolecules*
  - *Polymer Chemistry*
  - *Langmuir*
  - *Journal of Material Science*
  - *Journal of Polymer Science*
  - *Chemical Communications*
  - *Soft Matter*