Daniel A. Savin, Ph.D.
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a. PROFESSIONAL PREPARATION

B.S.	1995	Chemistry, Harvey Mudd College, Claremont, CA
M.S.	1997	Polymer Science, Carnegie Mellon University, Pittsburgh, PA
Ph.D.	2002	Chemistry, Carnegie Mellon University; Advisor: Prof. Gary Patterson
Postdoctoral	2002-2003	University of Minnesota; Advisor: Prof. Timothy Lodge

b. APPOINTMENTS

2015 – Present	**Associate Professor**, University of Florida, Department of Chemistry, Gainesville, FL.
2014	**Associate Professor**, University of Southern Mississippi, School of Polymers and High Performance Materials, Hattiesburg, MS.
2008 – 2014	**Assistant Professor**, University of Southern Mississippi, School of Polymers and High Performance Materials, Hattiesburg, MS.
2006 – 2008	**Assistant Professor,** University of Vermont, Department of Physics, Burlington, VT.
2003 – 2008	**Assistant Professor**, University of Vermont, Department of Chemistry, Burlington, VT. Secondary appointments: Materials Science and Environmental Science.
2002 – 2003	**Postdoctoral Associate**, University of Minnesota, Department of Chemistry, Minneapolis, MN.
1999 – 2002	**Graduate Teaching Fellow**, Carnegie Mellon University, Eberly Center for Teaching Excellence, Pittsburgh, PA.
1995 – 2002	**Graduate Research Assistant,** Carnegie Mellon University, Department of Chemistry, Pittsburgh, PA.
1993 – 1995	**Undergraduate Research Assistant,** Harvey Mudd College, Department of Chemistry, Claremont, CA; Advisor: Prof. Kerry Karukstis

c. AWARDS AND HONORS

- USM College of Science and Technology Outstanding Faculty Service Award, 2013
- Bronze Telly Award: "It's a Wash: The Chemistry of Soap." NBC Learn (the educational wing of NBC News) Chemistry Now series, 2012
- Highlighted in the "21st Century Chemists" section of NBC Learn http://www.nbclearn.com/portal/site/learn/chemistry-now/21st-century-chemists
- ACS Science Coaches: "You are a Scientist!" ACS-funded outreach program to Oak Grove Lower Elementary School.
- Selected for Kids' Science Challenge – Nationwide competition for 3rd-6th grade students. Featured on NPR: 11/01/10; 11/02/10; 08/01/11 and Talk of the Nation – 08/19/11.
- USM QEP Faculty Development Fellowship: Finding a Voice Improving Oral and Writing Competencies in the Classroom, 2011
- PMSE Young Investigator Symposium Invitation, 2010

d. RESEARCH GROUP AWARDS AND ACHIEVEMENTS

- 2017 Kyle Bentz awarded the Butler Polymer Research Graduate Award
- 2016 Kyle Bentz awarded the Eastman Summer Fellowship in Polymer Characterization
- 2016 ACS POLY/PMSE Student Chapter (Bentz, President) receives Best Student Chapter award
- 2016 Scarlett Arencibia receives the A. L. Hendry Award from the Southern Society of Coatings Technologies
- 2016 Scarlett Arencibia receives a Board of Education Summer Fellowship from the UF Office of Graduate Minority Programs
- 2013 – 2014 Ashley Johnson and Kyle Bentz awarded NSF GK-12 Fellowships
- 2013 Kyle Bentz awarded DuPont Scholarship to attend ISPAC 2013
- 2012 – 2013 Andrew Janisse awarded NSF GK-12 Fellowship
- 2012 Jack Ly awarded ACS Undergraduate Travel Award, POLY Division, ACS National Meeting, San Diego, March 2012
- 2011 Jacob Ray awarded Journal of Materials Chemistry Poster Prize at the International Symposium of Stimuli Responsive Materials
- 2011 Jacob Ray awarded Eastman Chemical Graduate Fellowship
- 2011 Olivia McNair, Adam Richardson and Davis Brent awarded $6000 First Prize in Noetic Technologies 'Invent Your Future' competition.
- 2010 – 2011 Jacob Ray awarded NSF GK-12 Fellowship
- 2010 Ashley Johnson (Montgomery) and Sandeep Naik awarded $10,000 First Prize in Noetic Technologies 'Invent Your Future' competition.
- 2009 – 2012 Ashley Johnson (Montgomery) awarded a Department of Education Graduate Assistance in Areas of National Need Fellowship.

e. TEACHING EXPERIENCE

Eval = "Overall Rating of Instructor" on a 5-point scale

AY 2017 – 2018		Students	Hours	Eval
CHM 6430	Chemical Thermodynamics	8	3	
CHM 6580	Special Topics: Rheology and Viscoelasticity of Polymers			
AY 2016 – 2017				
CHM 4411	Physical Chemistry: Thermodynamics and Kinetics	68	4	4.07
CHM 5511	Physical Chemistry of Polymers	8	2	4.86
AY 2015 – 2016				
CHM 4411	Physical Chemistry: Thermodynamics and Kinetics	80	4	4.33
CHM 5511	Physical Chemistry of Polymers	15	2	4.57
AY 2013 – 2014				
PSC 710	Polymer Physical Chemistry I: Polymer Solutions	12	3	4.91
PSC 740	Polymerization Kinetics and Reactor Design	11	3	4.80
AY 2012 – 2013				
PSC 710	Polymer Physical Chemistry I: Polymer Solutions	10	3	5.00
PSC 880	Scattering Techniques in Polymer Science	20	3	4.75
PSC 402	Physical Chemistry of Macromolecules II	13	4	4.40

AY 2011 – 2012		Students	Hours	Eval
PSC 710	Polymer Physical Chemistry I: Polymer Solutions	18	3	4.59
PSC 402	Physical Chemistry of Macromolecules II	7	4	4.71
AY 2010 – 2011				
PSC 720	Polymer Techniques I	10	2	4.40
PSC 402	Physical Chemistry of Macromolecules II	9	4	4.78
PSC 480	Polymerization Kinetics and Reactor Design	11	3	4.55
AY 2009 – 2010				
PSC 720	Polymer Techniques I	9	2	4.56
PSC 402	Physical Chemistry of Macromolecules II	5	4	4.60
PSC 480	Polymerization Kinetics and Reactor Design	5	3	4.43
AY 2008 – 2009				
PSC 720	Polymer Techniques I	10	2	4.40
PSC 480	Polymerization Kinetics and Reactor Design	7	3	4.67

Previous Teaching Experience:

University of Vermont:

CHEM 31 – General Chemistry (2 semesters), CHEM 35 – General Chemistry for Majors (3 semesters), CHEM 162 – Physical Chemistry (5 semesters), CHEM 167 – Physical Chemistry Preparation, CHEM 214 – Polymer Chemistry, CHEM 262 – Chemical Thermodynamics

Carnegie Mellon University (Teaching Assistant):

CHEM 09-105 – Introduction to Modern Chemistry I (4 semesters), CHEM 09-106 – Introduction to Modern Chemistry II (3 semesters), CHEM 09-144 – Biological Physical Chemistry, CHEM 09-206 – Analytical Chemistry, CHEM 09-222 – Lab II: Organic Synthesis and Analysis, CHEM 09-345 – Physical Chemistry II

f. PUBLICATIONS

Publication Statistics (as of 9/1/2017)
h-Index: 20
Total Peer-Reviewed Publications: 38
Total Citations: 1502 (Google Scholar)
Manuscripts in Review: 1
Manuscripts in Preparation: 4

(38) K. C. Bentz, **D. Savin**. "Chain Dispersity Effects on Brush Properties of Surface-Grafted Polycaprolactone-Modified Silica Nanoparticles: Unique Scaling Behavior in the Concentrated Polymer Brush Regime." *Macromolecules* **2017**, 50 (14), p. 5565–5573. [http://dx.doi.org/10.1021/acs.macromol.7b00608]
- In Top 20 most downloaded July/August 2017

(37) K. C. Bentz, M. Ejaz, S. Arencibia, N. Sultan, S. Grayson, **D. Savin**. "Hollow Amphiphilic Crosslinked Nanocapsules from Sacrificial Silica Nanoparticle Templates and their Application as Dispersants for Oil Spill Remediation." *Polym. Chem,* **2017**, 8, p. 5129 – 5138. [http://dx.doi.org/10.1039/C7PY00342K]

(36) C. A. Figg, R. N. Carmean, K. Bentz, S. Mukherjee, **D. Savin,** B. Sumerlin. "Tuning Hydrophobicity To Program Block Copolymer Assemblies from the Inside Out." *Macromolecules*, **2017**, *50* (3), pp 935–943. [http://dx.doi.org/10.1021/acs.macromol.6b02754]

(35) B. Mahon, J. Kurian, C. Lomelino, I. Smith, L. Socorro, A. Bennett, A. Hendon, P. Chipman, **D. Savin**, M. Agbandje-McKenna, R. McKenna. "Microbatch Mixing: "Shaken not Stirred", a Method for Macromolecular Microcrystal Production for Serial Crystallography." *Cryst. Growth Des.* **2016**, *16* (11), p. 6214–6221. [http://dx.doi.org/10.1021/acs.cgd.6b00643]

(34) K. Bentz, S. Walley, **D. Savin**. "Solvent Effects on Modulus of Poly(propylene oxide)-based Organogels as Measured by Cavitation Rheology." *Soft Matter* **2016**. 12, p. 4991-5001. [http://dx.doi.org/10.1039/C6SM00431H]

(33) A. Magenau, J. Richards, M. Pasquinelli, **D. Savin**, R. Mathers. "Systematic Insights from Medicinal Chemistry To Discern the Nature of Polymer Hydrophobicity." *Macromolecules* **2015**. 48 (19), p. 7230–7236. [http://dx.doi.org/10.1021/acs.macromol.5b01758]

(32) O. McNair, D. Brent, B. Sparks, E. Hoff, D. Patton, **D. Savin**. "Sequential Thiol Click Reactions: Formation of Ternary Thiourethane/Thiol-Ene Networks with Enhanced Thermal and Mechanical Properties." *ACS Appl. Mat. Interfaces* **2014**. 6 (9), p. 6088–6097. [http://dx.doi.org/10.1021/am405138e]

(31) O. McNair, T. Gould, S. Piland, **D. Savin.** "Characterization of Mouthguard Materials: A Comparison of a Commercial Material to a Novel Thiol-ene Family." *J. Appl. Polym. Sci.* **2014**. 121 (13), 40402. [http://dx.doi.org/10.1002/app.40402]

(30) W-M. Wan, P. Pickett, **D. Savin**, C. McCormick. "Structurally Controlled "Polysoaps" via RAFT Copolymerization of AMPS and Dodecyl Acrylamide for Environmental Remediation." *Polym. Chem.* **2014**. 5 (3), p. 819-827. [http://dx.doi.org/10.1039/c3py01073b]

(29) O. McNair, A. Janisse, D. Krzeminski, D. Brent, T. Gould, J. Rawlins, **D. Savin**. "Impact Properties of Thiol-Ene Networks." *ACS Appl. Mat. Interfaces* **2013.** 5 (21), p. 11004–11013. [http://dx.doi.org/10.1021/am403238g]

(28) A. Holley, J. Ray, W. Wan, **D. Savin**, C. McCormick. "Endolytic, pH-Responsive HPMA-b-(L-Glu) Copolymers Synthesized via Sequential Aqueous RAFT and Ring Opening Polymerizations." *Biomacromolecules* **2013.** 14 (10), p. 3793–3799. [http://dx.doi.org/10.1021/bm401205y]
- In Top 20 most downloaded October 2013

(27) O. McNair, B. Sparks, A. Janisse, D. Brent, D. Patton, **D. Savin**. "Highly Tunable Thiol-Ene Networks via Dual Thiol Addition." *Macromolecules* **2013**. 46 (14), p. 5614–5621. [http://dx.doi.org/10.1021/ma400748h]

(26) L. Paslay, L. Falgout, **D. Savin**, S. Heinhorst, G. Cannon, S. Morgan. "Kinetics and Control of Self-Assembly of ABH1 Hydrophobin from the Edible White Button Mushroom." *Biomacromolecules* **2013**. 14 (7), p. 2283-2293. [http://dx.doi.org/10.1021/bm400407c]

(25) A. Bapat, J. Ray, **D. Savin**, B. Sumerlin. "Redox-Responsive Dynamic-Covalent Assemblies: Stars and Miktoarm Stars." *Macromolecules* **2013**. 46 (6): p 2188–2198. [http://dx.doi.org/10.1021/ma400169m]

(24) J. Ray, A. Johnson, **D. Savin**. "Self-assembly and Responsiveness of Polypeptide-based Block Copolymers: How "Smart" Behavior and Topological Complexity Yield Unique Assembly in Aqueous Media." *J. Polym. Sci., Part B: Polym. Phys.* **2013**. 51(7): p. 508–523. [http://dx.doi.org/10.1002/polb.23259]

(23) A. Bapat, J. Ray, **D. Savin**, E. Hoff, D. Patton, B. Sumerlin. "Dynamic-covalent Nanostructures Prepared by Diels–Alder Reactions of Styrene-maleic anhydride-derived Copolymers Obtained by One-step Cascade Block Copolymerization." *Polym. Chem.* **2012**. 3(11): p. 3112–3120. [http://dx.doi.org/10.1039/c2py20351k]

(22) J. Ray, S. Naik, E. Hoff, A. Johnson, J. Ly, C. Easterling, D. Patton, **D. Savin.** "Stimuli-responsive Peptide-based ABA Triblock Copolymers: Unique Morphology Transitions with pH." *Macromol Rapid Commun.* **2012**. 33(9): p. 819–826. [http://dx.doi.org/10.1002/marc.201100881]

- Featured on the Front Cover of the issue
- In Top 10 most accessed April 2012

(21) B. Sparks, T. Kuchera, M. Jungman, A. Richardson, **D. Savin**, S. Hait, J. Lichtenhan, M. Striegel, D. Patton. "Cyclic Tetravinylsiloxanetetraols as Hybrid Inorganic-Organic Thiol-Ene Networks." *J. Mat. Chem.* **2012**. 22(9): p. 3817-3824. [http://dx.doi.org/10.1039/c2jm15484f]

(20) R. Griffitt, N. Brown-Peterson, C. Manning, **D. Savin**, I. Boube, R. Ryan, M. Brouwer. "Effects of Chronic Nanoparticulate Silver Exposure to Adult and Juvenile Sheepshead Minnow (Cyprinodon variegatus)." *Environmental Toxicology and Chem.* **2012,** 31, 160-167. [http://dx.doi.org/10.1002/etc.709]

(19) A. Bapat, D. Roy, J. Ray, **D. Savin**, B. Sumerlin. "Dynamic-Covalent Macromolecular Stars with Boronic Ester Linkages." *J. Am. Chem. Soc.* **2011,** 133, 19832–19838. [http://dx.doi.org/10.1021/ja207005z]

(18) S. Naik, J. Ray, **D. Savin**. "Temperature- and pH-Responsive Self-assembly of Poly(propylene oxide)-b-Poly(lysine) Block Copolymers in Aqueous Solution" *Langmuir* **2011**, 27, 7231–7240. [http://dx.doi.org/10.1021/la200882f]

(17) J. Ray, J. Ly, **D. Savin**. "Peptide-based Lipid Mimetics with Tunable Core Properties via Thiol-Alkyne Chemistry." *Polym. Chem.* **2011**, 2, 1536-1541. [http://dx.doi.org/10.1039/C1PY00003A]

- In Top 10 most downloaded March 2011

(16) B. Sparks, J. Ray, **D. Savin**, C. Stafford, D. Patton. "Synthesis of Thiol-clickable and Block Copolypeptide Brushes via Nickel-mediated Surface Initiated Polymerization of α-Amino Acid N-carboxyanhydrides (NCAs)." *Chem. Commun*. **2011**, 47, 6245-6247. [http://dx.doi.org/10.1039/c1cc11534k]

- Featured on the Inside Cover of the issue

(15) S. Naik, J. Chan, C. Comer, C. Hoyle, **D. Savin**. "Thiol–yne 'Click' Chemistry as a Route to Functional Lipid Mimetics." *Polym. Chem.* **2011**. 2, 303-305. [http://dx.doi.org/10.1039/c0py00231c]

- Invited to *Polymer Chemistry* 'Emerging Investigators" issue
- Featured as a "Hot Article" in *Polymer Chemistry* blog

(14) A. Smith, X. Xu, **D. Savin**, C. McCormick. "Reversible Gold Locked Synthetic Vesicles Derived from Stimuli-Responsive Diblock Copolymers." *Polym. Chem.* **2010**. **1**, 628-630. [http://dx.doi.org/10.1039/c0py00071j]

(13) A. Smith, X. Xu, S. Kirkland-York, **D. Savin**, C. McCormick. "Schizophrenic" Self-Assembly of Block Copolymers Synthesized via Aqueous RAFT Polymerization: From Micelles to Vesicles." *Macromolecules* **2010**. 43 (3), 1210-1217. [http://dx.doi.org/10.1021/ma902378k]

(12) A. Magenau, N. Martinez-Castro, **D. Savin**, R. Storey. "Site Transformation of Polyisobutylene Chain Ends to RAFT Polymerization: Synthesis of Poly(isobutylene-*b*-N-isopropylacrylamide)." *Macromolecules* **2009**. 42 (21), 8044-8051. [http://dx.doi.org/10.1021/ma901685p]

(11) S. Naik, **D. Savin**. "Poly(Z-Lysine)-based Organogels: Effect of Interfacial Frustration on Gel Strength." *Macromolecules* **2009**, 42 (18), 7114–7121. [http://dx.doi.org/10.1021/ma9011126]

(10) K. Murphy, J. Eisenhauer, **D. Savin**. "Synthesis, Self-Assembly and Adsorption of PEO-PLA Block Copolymers onto Colloidal Polystyrene." *J. Polym. Sci. Part B: Polym. Phys*., **2008**, 46 (3), 244-252. [http://dx.doi.org/10.1002/polb.21361]

(9) K. Gebhardt, S. Ahn, G. Venkatachalam, **D. Savin**. "Role of Secondary Structure Changes on the Morphology of Polypeptide-based Block Copolymer Vesicles." *J. Colloid Interface Sci.* **2008**, 317. 70-76. [http://dx.doi.org/10.1016/j.jcis.2007.09.048]

(8) K. Gebhardt, S. Ahn, G. Venkatachalam, **D. Savin**. "Rod-Sphere Transition in Poly(butadiene)-Poly(L-Lysine) Block Copolymer Assemblies." *Langmuir*, **2007**, 23(5), 2851-2856. [http://dx.doi.org/10.1021/la062939p]

Publications from prior work:

(7) **D. Savin,** G. Patterson, J. Stevens. "Evidence of the γ-Relaxation in the Light Scattering Spectra of Poly (n-hexyl methacrylate) Near the Glass Transition." *J. Polym. Sci. Part B: Polym. Phys.*, **2005**, 43(12), 1504-1519. [http://dx.doi.org/10.1002/polb.20426]

(6) **D. Savin**, A. Larson, T. Lodge. "Effect of Composition on the Width of the Calorimetric Glass Transition in Polymer/Solvent and Solvent/Solvent Mixtures." *J. Polym. Sci. Part B: Polym. Phys.*, **2004**, 42 (7), 1155-1163. [http://dx.doi.org/10.1002/polb.10776]

(5) G. Min, **D. Savin**, Z. Gu, G.D. Patterson, S.H. Kim, D.J. Ramsay, D. Fishman, I. Ivanov, E. Sheina, E. Slaby, J. Oliver. "Solution Characterization of Monodisperse Atactic Polystyrenes by Static and Dynamic Light Scattering." *Int. J. Polym. Anal. Char.*, **2003**, 8 (3), 187-207. [http://dx.doi.org/10.1080/10236660304875]

(4) **D. Savin**, J. Pyun, G. Patterson, T. Kowalewski, K. Matyjaszewski. "Synthesis and Characterization of Silica-graft-Polystyrene Hybrid Nanoparticles: Effect of Constraint on the Tg of Spherical Polymer Brushes." *J. Polym. Sci. Part B: Polym. Phys*., **2002**, 40 (23), 2667-2676. [http://dx.doi.org/10.1002/polb.10329]

(3) J. Pyun, K. Matyjaszewski, T. Kowalewski, **D. Savin**, G. Patterson, G. Kickelbick, N. Huesing. "Synthesis of Well-Defined Block Copolymers Tethered to Polysilsesquioxane Nanoparticles and Their Nanoscale Morphology on Surfaces." *J. Am. Chem. Soc.*, **2001**, 123 (38), 9445-9446. [http://dx.doi.org/10.1021/ja010241m]

(2) K. Karukstis, **D. Savin**, C. Loftus, N. D'Angelo. "Spectroscopic Studies of the Interaction of Methyl Orange with Cationic Alkyltrimethylammonium Bromide Surfactants: An Example of Induced Fit." *J. Colloid Interface Sci.*, **1998**, 203 (1), 153-163. [http://dx.doi.org/10.1006/jcis.1998.5494]

(1) K. Karukstis, M. Kao, **D. Savin**, R. Bittker, K. Kaphengst, C. Emetarom, N. Naito, D. Takamoto. "Spectral Studies of Lanthanide Interactions with Membrane Surfaces." *J. Phys. Chem.*, **1995**, 99, 4339-4346. [http://dx.doi.org/10.1021/j100012a067]

Book Chapters:

(1) R. Lochhead, S. Morgan, **D. Savin**, L. Kemp, Y. Zong. "Mitigating the Coastal Ecological Damage of Spilled Oil via Oil Anti-Deposition Strategies," in Mineral Scales in Biological and Industrial Systems, Z. Amjad, Ed. CRC Press, Boca Raton, FL. **2013**.

g. PRESENTATIONS

Invited Papers at Regional, National and International Meetings

2018
ACS National Meeting, New Orleans, LA. (POLY)

2017
15th Pacific Polymer Conference, Xiamen, China
ACS National Meeting, Washington, D.C. (COLL)
GPC Tosoh Conference, Atlanta, GA
Fusion Conferences: Functional Polymeric Materials, Rome, Italy
ACS National Meeting, San Francisco, CA (POLY)
1st Pan-American Polymer Conference (PanPoly), Sao Paulo, BR
APS March National Meeting, New Orleans, LA (DPOLY)

2016
5th Zing Polymer Chemistry Conference, Dublin, IR
International Symposium of Stimuli Responsive Materials, Sonoma, CA
Warwick Polymers 2016, Warwick, UK
Southern Society of Coatings Technologies Annual Meeting, St. Petersburg, FL
ACS National Meeting, San Diego, CA (POLY)

2015
International Symposium of Stimuli Responsive Materials, Sonoma, CA
Polymers in Medicine and Biology, ACS Workshop, Santa Rosa, CA
ACS National Meeting, Boston, MA (POLY, COMP)
Fusion Conferences: Functional Polymeric Materials, Ascot, UK
Polymers for Advanced Technologies, Hangzhou, China
International Symposium of Polymer Analysis and Characterization, Houston, TX
ACS National Meeting, Denver, CO (POLY ×2)
Florida Annual Meeting and Exposition, Tampa, FL

2014
International Symposium of Stimuli Responsive Materials, Sonoma, CA
ACS National Meeting, San Francisco, CA (POLY)
Minnesota Block Polymers 2014, Minneapolis, MN
ACS National Meeting, Dallas, TX (POLY)
Waterborne Symposium, New Orleans, LA
Mississippi Academy of Sciences Annual Meeting, Hattiesburg, MS
Fusion Conferences: Functional Polymeric Materials, Cancun, MX

2013
Third CCS-PD/ACS PMSE Joint Symposium on Polymers, Tsinghua University, Beijing, China
Frontiers in Polymeric Materials, Shanghai, China
ACS National Meeting, Indianapolis, IN (PMSE, CHED)
Baekeland Symposium, 4th International Symposium on Thermosets, Niagara Falls, ON

Joint ACS PMSE/CCS-PD Symposium, Hattiesburg, MS
ACS National Meeting, New Orleans, LA (PMSE, COLL, CHED)
Mississippi Academy of Sciences Annual Meeting, Hattiesburg, MS

2012
ACS SW Regional Meeting, Baton Rouge, LA
International Symposium of Stimuli Responsive Materials, Sonoma, CA
Warwick Polymers 2012, Warwick, UK

2011
ACS SW Regional Meeting, Austin, TX
ACS National Meeting, Denver, CO (POLY, PMSE)
ACS National Meeting, Anaheim, CA (PMSE)
Waterborne Symposium, New Orleans, LA

2010
Pacifichem, Honolulu, HI
SW/SE Regional ACS Meeting, New Orleans, LA
International Symposium of Stimuli Responsive Materials, Hattiesburg, MS
ACS National Meeting, Boston, MA (PMSE)
ACS National Meeting, San Francisco, CA (POLY, PMSE)
ACS POLY: Composite Matrix Science Workshop, New Orleans, LA

2008
APS National Meeting, New Orleans, LA (DPOLY)

2007
ACS National Meeting, Boston, MA (PMSE)

2006
Rocky Mountain Regional ACS Meeting. University of Arizona, Tucson, AZ
Nanotech 2006. Boston, MA
National Institute of Standards and Technology, Gaithersburg, MD. NIST Combinatorial Methods Center

2005
Polymer Vesicles: Synthesis, Characterization and Application, Schloss Beuggen, Germany

Invited Seminars and Colloquia

2016
University of Florida, Biomaterials Society
University of Akron, Department of Polymer Engineering
University of Delaware, Department of Materials Science and Engineering
NIST - Polymers and Complex Fluids Group

2015
UMASS, Amherst, Department of Polymer Science and Engineering
Daytona State College, STEM Community Scholars Program
University of South Florida, Department of Chemical Engineering
University of Alabama, Birmingham, Department of Chemistry
Virginia Polytechnic University, Department of Materials Science and Engineering
University of Florida, Department of Chemical Engineering

2014
California Polytechnic State University, San Luis Obispo, Department of Chemistry
Tulane University, Department of Chemistry

University of Florida, Department of Chemistry
IPRIME Workshop on Modern Polymer Characterization Methods, University of Minnesota
Louisiana State University, Department of Chemistry
University of Florida, Department of Chemistry
Purdue University, Department of Materials Science and Engineering
Case Western Reserve University, Department of Macromolecular Science and Engineering

2013
Chinese Academy of Sciences, Institute of Chemistry, Beijing, China
University of New Hampshire, Department of Chemistry
University of Connecticut, Institute of Materials Science

2012
Harvey Mudd College, Department of Chemistry
University of Cincinnati, Department of Chemistry
University of Arizona, Department of Chemistry

2011
Indian Institute of Technology, Delhi. Centre for Polymer Science and Engineering
GE Global Research, Bangalore, India
Louisiana State University, Department of Chemistry

2010
University of Portland, Department of Chemistry
Santa Clara University, Department of Chemistry

2009
Kent State University, Liquid Crystal Institute
University of Southern Mississippi Gulf Coast Research Laboratories, Department of Coastal Sciences
Carnegie Mellon University, Department of Chemistry

2008
Union College, Department of Chemistry

2007
Clarkson University, Department of Chemistry
North Carolina State University, Department of Textile Engineering
Southern Methodist University, Department of Chemistry
Texas Christian University, Department of Chemistry
Case Western Reserve University, Department of Macromolecular Science and Engineering

2006
University of Vermont, Department of Physics

2005
National Institute of Standards and Technology, Gaithersburg, MD. Polymers Division
Rensselaer Polytechnic Institute, Department of Chemistry
Dartmouth College, Nanomaterials Group, Department of Chemical Engineering

2004
McGill University, Montreal, Canada. Centre for Self-Assembly, Department of Chemistry

h. STUDENT MENTORSHIP

Ph. D. Graduates:	Dissertation	Date	Currently at:
Dr. Ashley Johnson (USM Graduate)	Tuning Responsiveness of Polypeptide Based Block Copolymers for Drug Delivery	October 2014	William Carey University
Dr. Olivia McNair (USM Graduate)	Investigations Toward Tunability of Mechanical, Thermal, and Impact Properties of Thiol-Ene Networks for Novel High Energy Absorbing Materials	February 2013	University of Southern Mississippi
Dr. Jacob Ray (USM Gradaute)	Utilizing Polymer Topology in Peptide-based Copolymers: Unique Aqueous Assembly and Responsive Behavior	January 2013	Ascend Performance Materials
Dr. Adam Richardson (UVM graduate)	The Effect of Nanoparticle Dispersion or Physical Crosslinking in Heterogeneous Polymer Network Systems	September 2011	The Spaceship Company
Dr. Sandeep Naik (UVM graduate)	Polypeptide-based Block Copolymers: Hierarchical Approach Towards Nanoassemblies	August 2010	Momentive Performance Materials

M.S. Graduates:	Thesis	Date	Currently at:
Karen Murphy (UVM Graduate)	The Synthesis, Characterization and Adsorption of Biodegradable Block Copolymers	February 2007	Chevron Oronite
Kay Gebhardt (UVM Graduate)	Synthesis and Characterization of Polypeptide-base Block Copolymer Assemblies	May 2006	Seventh Generation

Current Graduate Students

- Brooke Barnes, UF (2015 – present)
- Kyle Bentz, Cal Poly San Luis Obispo (2013 – present)
- Scarlett Godinez, UF (2016 – present)
- Taylor Jenkins, UNF (2016 – present)
- Amber Lott, Georgia Southern University (2015 – present)
- Craig Machado, Cal Poly San Luis Obispo (2014 – present)
- Amanda Pritzlaff, Bloomsburg University (2015 – present)
- Dominic Rucco, Florida Atlantic University (2015 – present)
- Ian Smith, UC Boulder (2013 – present)
- Susan Walley, University of Southern Mississippi (2017 – present)

Undergraduate Students (UF)

- Scarlett Arencibia (2015 – 2016) – A L Hendry Award (SSCT), FL Board of Education Summer Fellowship – Bridge to Doctorate
- Alex Shishlov (2015 – present) – iREU Fellow
- Naomi Sultan (2016 – present)
- Victoria Arismendi (2017 – present)
- Lauren Stein (2016 – present)

- Roger Tran (2016 – present)
- Ling Lin (2017 – present)
- Ashley Galbreath (2017 – present)

Undergraduate Students (USM)

- Davis Brent (2010 – 2013)
- Laura Bullock (2010 – 2011)
- Charles Easterling (2011 – 2013) – Currently Ph. D. student at U. Florida
- Christopher Keller (2013 – 2015) – Currently a Ph. D. student at Tulane
- Jack Ly (2009 – 2013) – Currently Ph. D student at U. Mass, Amherst
- Dr. Greg Miller (2011 – 2012) – Ph. D. 2017, Virginia Tech
- Abby Morris (2013 – 2015)
- Kristen VanDeVoorde (2013 – 2014) – Currently Ph. D. student at Case Western (NSF GFRP recipient)
- Susan Walley (2013 – 2014) – Currently Ph. D student at U. Florida (NSF GFRP recipient)

Summer REU Students (USM)

- Jackson Albert, Valparaiso University (2012)
- Nishal Bhikha, University of Mississippi (2013)
- Kiara Clark, Alcorn State Univ (AGEM, 2011)
- Mark Early, Cal Poly San Luis Obispo (2010)
- Jonathon Geiger, Pearl River Community College (2009)
- Sam Hein, University of Wisconsin, Eau Claire (2010)
- Megan Huffstickler, Hendersen State University (2013)
- Candace Igert, Olivet College (2011)
- Craig Machado, Cal Poly San Luis Obispo (2012)
- Mohamed Mansaray, Mississippi Valley State University (AGEM, 2012)
- Brandon Newton, Jackson State Univ (2011)
- Rachel Stone, Purdue University (2014)
- Gregory Strange, Cal Poly San Luis Obispo (2009)
- Nicole Vogelpohl, Cuesta College (2014)

i. DEPARTMENT AND UNIVERSITY SERVICE (since January 2015)

- Faculty Search Committee (Chemical Engineering, 2017 – present)
- Alpha Chi Sigma faculty advisor (2016 – present)
- Graduate Advising Committee (2016 – present)
- Early Career PChem award committee (2016 – present)
- Undergraduate Curriculum and Lab Committee (2015 – present)
- Chemathon (April 2016, April 2017)
- Chemical Biology of Cancer Faculty Search Committee (2015 – 2017)
- Commencement Marshall (Spring 2016)
- Proctor and Gamble Award Committee (2015)

j. EXTERNAL SERVICE (since August 2008)

Professional Organizations

- Editorial Advisory Board – *Macromolecules* and *ACS Macro Letters* (2014 – 2016)
- ACS PMSE Executive Committee (2009 – present)
    - Member at Large (2013 – 2015)
    - Chair, PMSE ACS Fellows Nomination Committee (2009 – 2016)
    - Co-Chair, PMSE ACS Fellows Nomination Committee (2016 – Present)
    - POLY/PMSE Student Chapter representative for PMSE
    - Doolittle Award judge (Anaheim and Denver 2011, New Orleans and Indianapolis 2013, Dallas 2014, San Francisco 2014)
- POLYED Executive Committee (2010 – present)
- Board of Directors, Applied Polymer Technology Extension Consortium (2011 – present)
- PMSE Representative to the Intersociety Polymer Education Committee (2013 – present)
- Secretary, Intersociety Polymer Education Committee (2013 – present)
- Scientific Advisory Board. "International Symposium on Polymer Analysis and Characterization." New Orleans, LA, June 2013.

Symposium Organizer

- Co-organizer, "ACS POLY: Polymer Composites and High-Performance Materials," Santa Rosa, CA, July 2016.
- Co-organizer, "Polymer Composites and High Performance Materials," 249th ACS National Meeting, POLY (Denver, CO, March 2015)
- Co-organizer, "Self-Assembled Block Copolymers and Soft Nanoparticles in Solution," APS Focus Session, DPOLY (San Antonio, TX, March 2015)
- Co-organizer. "Supramolecular Assembly and Gelation in Organic Media," 247th ACS National Meeting, PMSE (Dallas, TX, March 2014)
- Co-organizer, "Undergraduate Research in Polymer Science," 247th ACS National Meeting, POLY (Dallas, TX, March 2014)
- Co-organizer. "Physical Chemistry of Macromolecules," 246th ACS National Meeting, CHED (Co-sponsored by POLY, PMSE, PHYS, COLL) (Indianapolis, IN September 2013)
- Co-organizer. "Bioconjugates and Hybrid Biomaterials," 246th ACS National Meeting, PMSE (Indianapolis, September 2013)
- Co-organizer: "ACS POLY: Polymer Composites and High Performance Materials," Santa Rosa, CA, July 2013.
- Organizer. "Joint PMSE/CCS-PD Symposium," Hattiesburg, MS, April 2013.
- Co-organizer, "Undergraduate Research in Polymer Science," 245th ACS National Meeting, POLY (New Orleans, LA, April 2013)
- Co-organizer: "Advances in Polymer Composites," 242nd ACS National Meeting, POLY (Denver, August 2011)
- Co-organizer: "ACS POLY: Composite Matrix Science Workshop," New Orleans, LA, February 2010.
- Co-organizer: "Hybrid Soft Materials of Natural and Synthetic Polymers." 238th ACS National meeting, PMSE (Washington, D.C., August 2009)
- Organizer: "Nanostructured Block Copolymer Materials." 237th ACS National meeting, PMSE (Salt Lake City, March 2009)

Journal Referee (Through 2016, *ca.* 31 manuscript reviews per year total)

Top Five Journals (Number of reviews > 1):

- *Macromolecules (36)*
- *Langmuir (27)*
- *Biomacromolecules (24)*
- *Polymer Chemistry (21)*
- *Soft Matter (21)*

Proposal Review Panel Member (Through 2016, number of reviews > 1)

- 2009 – *NSF Division of Chemistry (11)*
- 2010 – *NSF Division of Materials Research (7)*
- 2011 – *American Association for the Advancement of Science (8)*
- 2011 – *NSF Division of Chemistry (11)*
- 2012 – *American Association for the Advancement of Science (3)*
- 2012 – *NSF Sustainability Research Networks (11)*
- 2013 – *American Association for the Advancement of Science (5)*
- 2013 – *NSF Division of Materials Research (9)*
- 2013 – *NSF Division of Chemistry (7)*
- 2013 – *NSF Division of Chemistry (7)*
- 2014 – *American Association for the Advancement of Science (6)*
- 2014 – *NSF Division of Chemistry (8)*
- 2014 – *American Association for the Advancement of Science (5)*
- 2014 – *NSF Division of Materials Research (8)*
- 2015– *NSF Division of Chemistry (9)*
- 2015 – *American Association for the Advancement of Science (2)*
- 2016 – *NSF Division of Materials Research (8)*

Proposal Referee (ad hoc) (Through 2016, number of reviews > 1))

- Army Research Office (3)
- Defense Threat Reduction Agency (7)
- Department of Energy
- NASA
- National Science Foundation (15)
- Petroleum Research Fund (7)
- Stanford Linear Accelerator (2)

International Proposal Referee (ad hoc) (Through 2016, number of reviews > 1)

- Czechoslovakia Science Foundation
- Netherlands Organization for Scientific Research
- Romanian Science Foundation (3)

External Dissertation Evaluator:

- Dr. Florian Hermes – Max Planck Institute, Potsdam, Germany, 2010
- Dr. Abhijett, Bapat – Southern Methodist University, 2012
- Dr. Mrityunjoy Kar – University of Pune, India, 2012

Professional Membership

- American Chemical Society
  - Division of Polymer Chemistry
  - Division of Polymeric Materials: Science and Engineering
- American Physical Society
  - Division of Polymer Physics
  - Division of Biological Physics
  - Topical Group on Soft Matter
- Materials Research Society
- Royal Society of Chemistry
- Sigma Xi
- Society of Rheology
- Southern Society of Coatings Technologies

k. OUTREACH INITIATIVES

- **"You are a Scientist!" (2nd – 3rd Grade, Lower Elementary School)**
  The overarching theme of 'You are a Scientist!' is to help 2nd and 3rd grade students learn and apply the scientific method keeping in mind that they are already scientists; they already ask questions based on observations and offer explanations as to why. The program consists of visiting eight classrooms once a month for 45 minutes each. The designed curriculum is general, trying to reinforce basic concepts associated with inquiry, critical thinking, and measurements. The lessons are planned in consultation with the teachers and are aligned with the 2010 Mississippi science learning objectives at this grade level.

- **NBC Learn: Chemistry Now**
  NBC Learn is the educational wing of NBC News and provides access to a number of web-based educational resources for K-16 students. In 2011 for the International Year of Chemistry they introduced a series entitled, 'Chemistry Now.' Savin participated in the filming two of these educational videos that explain surface tension, the cleaning action of surfactants and a novel oil dispersant being developed at USM. ***The video "It's a Wash: The Chemistry of Detergents" was the recipient of a 2012 Bronze Telly Award***. These videos can be seen at:
  http://www.nbclearn.com/portal/site/learn/chemistry-now/chemistry-of-detergents
  http://www.nbclearn.com/portal/site/learn/chemistry-now/chemistry-of-dispersants

- **The Kids' Science Challenge (KSC):**
  The KSC is a nationwide competition for 3rd-6th grade students to challenge a scientist to invent something new. This NSF-sponsored program annually recruits a scientist in three different areas to participate. In year three of the competition (2011), Savin was selected as the scientist in the 'Super Stuff for Sports' category. This involved filming videos giving an overview of polymers and how different materials are used in sporting equipment. I helped judge the entries, and the winner (of 200 entries) was hosted in my laboratory where we tested his hypothesis that the temperature of a golf ball affects bounce. This work with the KSC was featured on Pulse of the Planet (NPR)– 10/04/10; 10/05/10; 08/01/11, NPR's Talk of the Nation: Science Friday – 08/19/11, the Hattiesburg American newspaper and WDAM TV. More information (and videos) can be found at:
  http://www.kidsciencechallenge.com/archiveyear3/index.php#/2a and
  http://www.kidsciencechallenge.com/archiveyear3/index.php#/2b

l. Collaborators & Other Affiliations (past 48 months)

Mavis Agbandje-McKenna (U Florida), Hank Ashbaugh (Tulane U), Jason Butler (U Florida), Coray Colina (U Florida), Philip Costanzo (California Polytechnic State U, San Luis Obispo), Scott Grayson (Tulane U), R. Joe Griffitt (U of Southern Mississippi), Robert Mathers (Penn State U, New Kensington), Charles McCormick (U of Southern Mississippi), Robert McKenna (U Florida), Sarah Morgan (U of Southern Mississippi), Melissa Pasquinelli (North Carolina State U), Derek Patton (U of Southern Mississippi), Wayne Reed (Tulane U), Carlos Rinaldi (U Florida), Subrata Roy (U Florida), Brent Sumerlin (U Florida), Sergey Vasenkov (U Florida), Kirk Ziegler (U Florida)

m. Funding

Current Support					
Duration	**Program**	**Role**	**Proposal Title**	**Savin Contribution**	**Awarded**
12/1/17 – 12/31/19	GoMRI	PI	Designing Nanoparticle-based Dispersants with Improved Efficiency and Biocompatibility (Co-PIs: Grayson, Reed, Denslow)	28%	$ 970,553
12/1/13 – 5/13/19	Camille and Henry Dreyfus Foundation	PI	Inquiry-based Discovery at the Lower Elementary Level - "You are a Scientist!"	100%	$25,000
8/01/16 – 7/31/18	UF Opportunity Seed Fund	PI	Novel Nitrophobic Membranes for Selective Separations of Oxygen from Air (Co-PIs: Ziegler, Vasenkov)	50%	$ 89,000
7/15/17 – 6/30/18	NSF DMR SSMC	Co-PI	Smart Gate Membranes for Highly Selective Removal Of Carbon Dioxide From Combustion Gases (PI: Ziegler, Co-PIs: Savin, Vasenkov)	20%	$ 175,000

Prior Support as PI					
Duration	**Program**	**Role**	**Proposal Title**	**Savin Contribution**	**Awarded**
2/1/14 – 1/31/17	NSF REU	PI	SusChEM: REU Site: Polymer Innovation for a Sustainable Future (Co-PI: Morgan)	60%	$ 350,000
8/15/12 – 7/30/16	NSF CHE	PI	Synthesis, Self-assembly and Morphology Transitions in Linear and Star Polypeptide-based Block Copolymers	100%	$ 360,000
5/14/10 – 4/30/14	NSF REU	PI	REU Site: Sustainable Aerospace and Marine Polymer Composites (Co-PI: Morgan)	60%	$ 344,000
9/1/09 – 8/31/10	US DOD/ONR	PI	Nanoparticle Dispersion and Self-Healing in Epoxy Composites	100%	$ 72,000
1/1/10 – 7/31/10	Private Sponsor	PI	Research Services for Bruno Bock	100%	$ 38,002
9/1/08 – 8/31/09	US DOD/ONR	PI	Improved Nanoparticle Dispersion in Vinyl Ester and Epoxy Composites	100%	$ 70,000

Prior Support as Co-PI or Senior Personnel					
Duration	**Program**	**Role**	**Proposal Title**	**Savin Contribution**	**Awarded**
7/15/16 – 8/14/17	ARO-DURIP	Co-PI	Acquisition of Dynamic Mechanical Analyzer and Stress-Controlled Rheometer for the Mechanical Characterization of Advanced Materials (PI: Wagener, Co-PIs: Savin, Sumerlin, Miller, Castellano, Veige)	17%	$ 224,180
8/1/14 – 7/31/17	NSF EPSCoR IIA	Co-PI	The Smart MATerial Design, Analysis, and Processing (SMATDAP) Consortium (PI: Hamilton, Co-PIs: Savin, Morgan, Walters, Kundu)	16%	$ 2,699,753
10/1/12 – 12/31/15	GoMRI	Co-PI	Development of Cost-efficient and Concentration-independent Dispersants for Improved Oil Spill Remediation (PI: Grayson, Co-PIs: Reed, Savin)	32%	$ 1,035,728
9/1/11 – 8/31/14	NSF IRES	Co-PI	U.S.-India International Research Experience for Students in Self-Assembling Stimuli-Responsive Biomimetic Polymers (PI: Morgan, Co-PIs: Lochhead, Savin)	33%	$ 150,000
8/1/11 – 7/31/14	NSF AIR	Senior Personnel	First stage commercialization of Oil Anti-Deposition Dispersant technology for spilled oil (PI: Lochhead, Co-PI: Morgan)	22%	$ 234,946
9/1/10 – 7/31/13	US DOD/ONR	Co-PI	Composite Materials Research and Development (PI: Thames, Co-PIs: Morgan, Nazarenko, Olsen, Rawlins, Patton, Savin, Storey, Wiggins)	6%	$ 4,818,051
7/19/10 – 6/11/12	NSF PFI (RAPID)	Co-PI	Mitigating the Deposition of Oil on Gulf Shores via Oil Anti-deposition Strategies (PI: Lochhead, Co-PIs: Morgan, Savin)	33%	$ 149,955
8/1/09 – 2/29/12	DOE BES	Senior Personnel	Alternative Fuel Cell Membranes for Energy Independence (PI: Mauritz, co-PI: Storey)	7%	$ 1,935,500
3/15/10 – 8/31/10	Private Sponsor	Co-PI	Characterization of the Physical, Properties of the Team Wendy Foam Pads Used in the Army's Advanced Combat Helmet (PI: Gould, Co-PIs: Piland, Savin)	50%	$ 10,000