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MAJOR ACCOMPLISHMENTS in RESEARCH, TEACHING & PROFESSIONAL TRAINING

Publications	84
<i>Reviews & Book Chapters</i>	8
<i>Papers</i>	76
Books	1
New reactions discovered	4
Scientific citation scores	
sum of the times cited	874
sum of times cited without self-citations	626
<i>h-index</i>	17
Public outreach campaign on explaining chemistry to the general public:	
number of views of the health-related youtube videos	32,698
Patents	3
Presentations	129
national/international conferences (including 7 invited)	63
invited presentations at academic institutions	17
invited public presentations (book related)	30 (22)
radio interviews	9
TV interviews	5
public hearings on carcinogens and reproductive toxicants at the state and federal agencies	1
expert deposition and trial testimony on carcinogens and reproductive toxicants on behalf of the consumer protection groups	4
Petitioning state and federal agencies to protect American public from carcinogens and reproductive toxicants	1
Chairing sessions at national conferences	6
Student presentations	110 (UG 62)
Student awards	48 (UG 31)
Student proposals	29 (UG 24)
Graduate student theses	12
Number of students directed	84
<i>including undergraduates</i>	72

Total number of student-semesters	450
<i>including undergraduates</i>	288
Number of papers published with undergraduate students	39
Number of undergraduate students co-authoring papers	56
Number of papers published with CSUN undergraduate students	20
Number of CSUN undergraduate students co-authoring papers	36

PAPERS (76)

1. Bekker, R. A.; Melikyan, G. G.; Lurie, E. P.; Dyatkin, B. L.; Knunyants, I. L. New Case of Desmotropism. Metastable Enol Forms of Polyfluoroacetones, Preparation and Some Reactions. *Dokl. Akad. Nauk USSR* **1974**, 217, 1320-1323; C.A.81(25):169052b.
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10. Bekker, R. A.; Badanyan, Sh. O.; Melikyan, G. G.; Knunyants, I. L. Perfluoropropen-2-ol: Addition Reactions to Olefins. *J. Org. Chem. USSR* **1977**, *13*, 1461-1463.
11. Melikyan, G. G.; Mkrtchyan, D. A.; Badanyan, Sh. O. Synthesis of 4,5-Dihydrofurans Based on the Reaction of Acetylacetone with Conjugated Alkenes. *Chem. Heterocyclic Compounds* **1981**, *1*, 678-680.
12. Melikyan, G. G.; Mkrtchyan, D. A.; Badanyan, Sh. O. Synthesis of 4,5-Dihydrofurans by the Interaction between Ethylacetoacetate and Functionally Substituted Alkynes. *Armenian Khim. Zh.* **1981**, *34*, 1011-1016; C.A.96(23):199443g.
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21. Melikyan, G. G.; Babayan, E. V.; Atanesyan, K. A.; Badanyan, Sh. O. Reactions of Unsaturated Compounds. 112. Stereo- and Regiochemistry of the Acylation of Conjugated Systems. *J. Org. Chem. USSR* **1984**, *20*, 1884-1889.
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23. Melikyan, G. G.; Sargsyan, A. B.; Badanyan, Sh. O. Synthesis of Furan Derivatives from 1,3-Alkadiynes. *Khim. Geterotsikl. Soedin.* **1986**, *4*, 562; C.A. 106(9):67021h.
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34. Melikyan, G. G.; Aslanyan, G. Kh.; Atanesyan, K. A.; Mkrtchyan, D. A.; Badanyan, Sh. O. Low-Molecular Bioregulators. 3. Synthesis of 4E-Tridecenyl Acetate, the Sex Pheromone of Tomato Pinworm, *Keiferia licopersicella*. *Chem. Natural Compounds* **1990**, *7*, 83-85.

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36. Melikyan, G. G.; Babayan, E. V.; Panosyan, G. A.; Palikyan, G. U.; Badanyan, Sh. O. Regio- and Stereochemistry of Acylation of the 2-Methyl-1-buten-3-yne. Conversion of 2H-Pyran into Furan with Oxidative Extrusion of CH₂-Group. *J. Org. Chem. USSR* **1990**, *26*, 830-836.

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73. Melikyan, G. G.; Voorhees, E.; Sepanian, R. Radical Reactions of the Cobalt-Complexed Propargyl Acetals: Inter- and Intramolecular Variants. *Organometallics* **2014**, *33*, 69-83.
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76. Melikyan, G. G.; Davis, R.; Cappuccino, S. Acquiring and Exploiting Persistency of Propargyl Radicals: Novel Paradigms. **2016** (submitted).

REVIEWS & BOOK CHAPTERS (8)

1. *Review*: Badanyan, Sh. O.; Melikyan, G. G.; Mkhitarian, G. R.; Atanesyan, K. A. Electrophilic Acylation of Unsaturated Compounds. *Armenian Khim. Zh.* **1981**, *34*, 926-953; C.A.96(9):67888w.
2. *Review*: Badanyan, Sh. O.; Melikyan, G. G.; Mkrtchyan, D. A. Functionalization of Unsaturated Systems with Carbonyl Compounds in the Presence of Manganese(III) Acetate. *Russ. Chem. Rev.* **1989**, *58*, 286-296.
3. *Invited review*: Melikyan G. G. Manganese(III)-Mediated Reactions of Unsaturated Systems. *Synthesis* **1993**, 833-850.

4. *Book chapter*: Melikyan, G. G.; Nicholas K. M. The Chemistry of Metal-Alkyne Complexes in "MODERN ACETYLENE CHEMISTRY", Ed. Stang P.J., Diederich F., VCH Publishers, **1995**, Ch. 4, 99-138.

5. *Invited book chapter*: Melikyan, G. G. Radical Carbon-Carbon Bond-Forming Reactions Promoted by Trivalent Manganese. ORGANIC REACTIONS, Ed. Paquette L., John Wiley, **1997**, 49, Ch. 3, 427-675.

6. *Review*: Melikyan, G. G. Manganese-Based Organic and Bioinorganic Transformations. *Aldrichimica Acta* **1998**, 50-64.

7. *Invited review*: Melikyan, G. G. Ligand-Based Organometallic Radical Chemistry: an Emerging Interdisciplinary Field in: *Frontiers in Organometallic Chemistry*. Ed. M. A. Cato, Nova Science Publishers, **2006**, Ch.7, 155-190.

8. Melikyan G. G. Propargyl Radical Chemistry: Renaissance Instigated by Metal Coordination. *Acc. Chem. Res.* **2015**, 48, 1065-1079.

BOOK

Gagik Melikyan. ***Guilty Until Proven Innocent: Antioxidants, Foods, Supplements, and Cosmetics***. Los Angeles, California, 2010, 376pp.

DISTINCTIONS and AWARDS

2002	<i>Polished Apple Award</i> , University Ambassadors, CSUN, Northridge, CA;
2008	<i>Outstanding Faculty Award</i> , CSUN, Northridge, CA;
2008	<i>Foreign Member</i> , National Academy of Sciences, Yerevan, Armenia;
2010	Jerome Richfield Research Scholar Award, CSUN, Northridge, CA;
2015	The Kennedy Center Stephen Sondheim Inspirational Teacher Award, Washington, D.C.

LITERARY AWARDS

- 2011 Finalist in the "Science" category, The USA "Best Books 2011" Awards competition sponsored by the USA Book News;
- 2012 Second Place Award in the "Science" category, 2012 International Book Awards competition sponsored by JPX Media.

AWARDS & HONORS

- 1970-1973 *"Best Student of the Department of Chemistry"*, Department of Chemistry, Yerevan State University, Yerevan, Armenia;
- 1987 Deutscher Akademischer Austauschdienst (DAAD), Germany;
- 1990 Alexander von Humboldt Fellowship, Germany;
- 1997 Collaborative Research Award, Civilian Research and Development Foundation (CRDF);
- 1998 Hewlett Packard Corporation;
- 1998 Judge Julian Beck Foundation;
- 2001 NATO, Physical and Engineering Science and Technology;
- 2002 American Chemical Society, Petroleum Research Fund;
- 2006 *America's Registry of Outstanding Professionals 2005-2006*;
- 2006 *Who's Who in Sciences Higher Education (WWSHE)*;
- 2007 National Science Foundation (NSF), Research at Undergraduate Institutions (RUI);
- 2010 National Science Foundation (NSF), Research at Undergraduate Institutions (RUI).

PATENTS (3)

1. Melikyan, G. G.; Atanesyan, K. A.; Badanyan, Sh. O. 1,3-Hexadiene-5-one. Patent USSR 999472 (1982).
2. Melikyan, G. G.; Mkrtchyan, D. A.; Badanyan, Sh. O. 4E-Alkenoic Acids. Patent USSR 1218636 (1983).
3. Melikyan, G. G.; Atanesyan, K. A.; Azaryan, G. Kh.; Badanyan, Sh. O. 7Z,9E-Dodecadienyl Acetate. Patent USSR 1262896 (1984).

CHAIRING SESSIONS AT CONFERENCES

1998	"Organometallic Synthesis," 34th ACS Western Regional Meeting, 1998 Pacific Conference, San Francisco, CA.
2011	"New Reactions and Methodology," 241 st ACS National Meeting, Anaheim, CA.
2012	"Metal-Mediated Reactions and Syntheses," 243 st ACS National Meeting, San Diego, CA.
2013	"Metal-Mediated Reactions and Syntheses," 245 st ACS National Meeting, New Orleans, GA.
2014	"Asymmetric Reactions and Syntheses," 248 st ACS National Meeting, San Francisco, CA.
2015	"New Reactions and Methodology," 250 st ACS National Meeting, Boston, MA.

PRESENTATIONS / CONFERENCE PARTICIPATION (63, including 7 invited)

1. Melikyan, G. G.; Mkrtchyan, D. A.; Badanyan, Sh. O. The Reactions of Vinylacetylene and Substituted Enynes with β -Dicarbonyl Compounds. Proc. 6th All-Union Conference on Acetylene Chemistry, Baku, **1979**, 70.
2. Melikyan, G. G.; Mkrtchyan, D. A.; Badanyan, Sh. O. Radical-Electrophilic Reactions. Proc. 1st All-Union Conference on Carbocation Chemistry. Novosibirsk, **1979**, 89.
3. Melikyan, G. G.; Mkrtchyan, D. A.; Atanesyan, K. A.; Badanyan, Sh. O. Syntheses of Mono- and Diene Sex Pheromones. Proc. All-Union Conference on Plant Protection, Ufa, **1982**, 25.
4. Melikyan, G. G.; Mkrtchyan, D. A.; Badanyan, Sh. O. The Novel Method for the Synthesis of (+)-5Z-Tetradecen-4-olide, a Japanese Beetle Sex Pheromone. Proc. 7th Soviet-Indian Symposium on Natural Products Chemistry, Tbilisi, **1983**, 108.
5. Melikyan, G. G.; Badanyan, Sh. O. Stereo- and Regioselective Acylation of Conjugated Alkadienes and Alkynes. 29th IUPAC Congress on Organic Chemistry, Cologne, **1983**, 237.

6. Melikyan, G. G.; Atanesyan, K. A.; Azaryan, G. Kh.; Badanyan, Sh. O. Synthetic Pheromone of Grapevine Moth, an Efficient Plant Protection Agent. Ist National Conference on Physico-Chemical Biology and Biotechnology, Yerevan, **1984**, 26.
7. Melikyan, G. G.; Sargsyan, A. B.; Babayan, E. V.; Badanyan, Sh. O. Radical and Electrophilic Reactions of the Conjugated Diacetylenes. Proc. 7th All-Union Conference on Acetylene Chemistry, Yerevan, **1984**, 49.
8. Melikyan, G. G.; Sargsyan, A. B.; Vardapetyan, S. K.; Badanyan, Sh. O. The Regiochemistry of the Mn(III)-Initiated Radical Reactions. Proc. All-Union Conference on the Chemistry of Unsaturated Compounds, Kazan, **1986**, 2, 123.
9. Azaryan, G. Kh.; Melikyan, G. G. The Effectiveness of Grapevine Moth Pheromone in Field Trials. All-Union Conference on the Synthesis and Industrial Use of Sex Pheromones. Tartu, **1986**, 2, 111-112.
10. Melikyan, G. G.; Sargsyan, A. B.; Mkrtchyan, D. A.; Badanyan, Sh. O. Reactions of Conjugated Systems with Carbonyl Compounds Mediated by Manganese (III) Acetate. 6th International IUPAC Conference on Organic Synthesis, Moscow, **1986**, 219.
11. Melikyan, G. G.; Atanesyan, K. A.; Badanyan, Sh. O.; Azaryan, G. Kh. Synthesis, Manufacturing and Industrial Use of the Efficient Vineyard Protection Agent. Ist Regional Conference on Environmental Protection, Batumi, **1986**, 148.
12. Melikyan, G. G.; Sargsyan, A. B.; Babayan, E. V.; Mkrtchyan, D. A.; Badanyan, Sh. O. Conjugated Triple Bond, a Convenient Molecular Fragment for Furan Synthesis. 5th International Symposium on Furan Chemistry, Riga, **1988**, 19.
13. Melikyan, G. G.; Babayan, E. V.; Panosyan, G. A.; Badanyan, Sh. O. Autooxidation of 2H-Pyranes with CH₂-Group Extrusion, a Novel Method of Furan Synthesis. Proc. 5th All-Union Symposium "New Methods and Reagents in the Fine Organic Chemistry", Moscow, **1988**, 132.
14. Melikyan, G. G.; Badanyan, Sh. O. The Industrial Use of the Synthetic Sex Pheromone of Grapevine Moth *Lobesia botrana*. Proc. All-Union Conference on Pesticides, Chernogolovka, **1988**, 204.

15. **Invited presentation:** Badanyan, Sh. O.; Melikyan, G. G. New Approaches to the Functionalization of Conjugated Systems and their Application in Pheromone Synthesis. Proc. 14th Mendeleev Congress on Pure and Applied Chemistry, Tashkent, **1989**, 1, 242.
16. Melikyan, G. G.; Sargsyan, A. B.; Mkrtchyan, D. A.; Azaryan, G. Kh. New Approach to the Synthesis of 2-Isopropyl-2,5-dimethyl-2,3-dihydrofuran, a Sex Pheromone of *Hylecoetus Dermestoides*. 3rd National Conference on Physico-Chemical Biology and Biotechnology, Yerevan, **1989**, 57.
17. Melikyan, G. G.; Tosunyan, A. A. New Synthetic Approach to 2-Methyl-6-ethyl-2,3-dihydro-4H-pyranone-4, a Sex Pheromone of *Hepialus hecta*. 3rd National Conference on Physico-Chemical Biology and Biotechnology, Yerevan, **1989**, 56.
18. Azaryan, G. Kh.; Melikyan, G. G. Integrated Plant Protection with Insect Sex Pheromones in Armenia. 3rd National Conference on Physico-Chemical Biology and Biotechnology, Yerevan, **1989**, 19-20.
19. Melikyan, G. G.; Aslanyan, G. Kh.; Atanesyan, K. A.; Mkrtchyan, D. A. The Synthesis of the Sex Pheromone of Tomato Pinworm. 3rd National Conference on Physico-Chemical Biology and Biotechnology, Yerevan, **1989**, 55.
20. Melikyan, G. G.; Mkrtchyan, V. M.; Atanesyan, K. A.; Badanyan, Sh. O. Reduction of the Propargyl Chlorides Regiocontrolled by Dicobalthexacarbonyl Group. 8th International IUPAC Conference on Organic Synthesis, Helsinki, **1990**, 245.
21. Melikyan, G. G.; Vostrowsky, O.; Bestmann, H. J. (Propargyl Alcohol) $\text{Co}_2(\text{CO})_5(\text{PPh}_3)$: Stereo- and Regiochemistry of Dehydration. Synthesis of Chiral Manicone and Normanicone. IUPAC Symposium on Organo-Metallic Chemistry directed towards Organic Synthesis, Utrecht, **1991**, A52.
22. Melikyan, G. G.; Fiegel, M.; Vostrowsky, O.; Bestmann, H. J. Steric Retardation in Dehydration Reactions of m-(Propargyl Alcohol)PCDC-complexes: Quantitative Assessment. 9th International IUPAC Conference on Organic Synthesis, Montreal, **1992**, 166.
23. Melikyan, G. G.; Nicholas, K. M. Metal Cluster-Directed, Mn(III)-Mediated Selective Radical Addition Reactions of 1,3-En-yne. Proc. 205th National ACS Meeting, Denver, **1993**, 149.

24. Melikyan, G. G.; Nicholas, K. M. Mn(III)-Mediated Reactions of Co-Complexed 1-Alken-3-ynes: a Highly Stereoselective Route to cis-Fused Polycycles. 38th Annual Pentasectional ACS Meeting, Ponca-City, OK, **1993**, 25.

25. Melikyan, G. G.; Nicholas, K. M. Co-Complexed Propargyl Radical: a New Synthetic Intermediate. ACS 49th Southwest Regional Meeting, Austin, TX, **1993**, 62.

26. Melikyan, G. G.; Nicholas, K. M. Inter and Intramolecular Coupling of Co-Complexed Propargyl Radicals: Chemo- and Diastereoselectivity. ACS 207th National Meeting, San-Diego, CA, **1994**, 44.

27. Melikyan, G. G.; Khan, M. A.; Nicholas, K. M. Cobalt-Complexed Propargyl Radicals: Reactive Intermediates for the Synthesis of Novel Cyclic 1,5-Diynes. ACS 50th Southwest Regional Meeting, Fort Worth, TX, **1994**, 89.

28. Melikyan, G. G.; Yadegar, S.; Deravakian, A.; Myer, S.; Monroe, T. Diastereocontrol in Organometallic Radical Chemistry: Recent Results. ACS 213th National Meeting, San-Francisco, CA, **1997**, 650.

29. Melikyan, G. G. Manganese(III)-Mediated Radical Cycloadditions. Gordon Research Conference, Free Radical Reactions, Holderness School, NH, **1997**.

30. Melikyan, G. G.; Deravakian, A.; Yadegar, S.; Myer, S.; Monroe, T. Nontraditional Radical Chemistry: Mechanism and Synthetic Applications. 34th ACS Western Regional Meeting, 1998 Pacific Conference, San Francisco, CA, **1998**, 34.

31. Melikyan, G. G.; Myer, S.; Hardcastle, K. I.; Ciurash, J.; Toure, P. New Motifs in Organometallic Radical Chemistry. National 215th ACS Meeting, Anaheim, CA, **1999**, 17.

32. **Invited presentation:** Melikyan, G. G.; Myer, S.; Monroe, T.; Villena, F.; Hardcastle, K. I.; Ciurash, J.; Miller, D.; Charonnat, J.; Shandelson, G. H.; Toure, P. Unorthodox Radical Chemistry and its Biological Implications. New Motifs in Organometallic Radical Chemistry. 35th ACS Western Regional Meeting, 1999 Pacific Conference, Ontario, CA, **1999**, 227.

33. Melikyan, G. G.; Villena, F.; Christian, N.; Paulsen, K.; Ahrens, B.; Toure, P. Novel Organometallic Radical Reaction: Mechanism, Synthetic Potential, Application in Total Synthesis, and Biological Relevance. VIIIth Intern. Symposium on Organic Free Radicals, Gomberg'2000, Ann Arbor MI, 80.

34. **Invited presentation:** Melikyan, G. G. New Motifs in Organometallic Radical Chemistry. US-German-French Symposium on Carbon-Rich Organometallic Compounds, Erlangen, Germany, **2000**, 29.

35. **Invited presentation:** Melikyan, G. G. Unorthodox Radical Chemistry and Its Biological Implications. NFSAT-CRDF 5th Anniversary Conference, Yerevan, **2002**.

36. **Invited presentation:** Melikyan, G. G. Recent Progress on Organometallic Radical Chemistry and the Prospects of U.S.-Armenia Scientific Integration. NFSAT-CRDF Workshop on U.S.-Armenia Scientific Collaboration, Glendale, CA, **2002**.

37. Melikyan, G. G.; Villena, F.; Sepanian, S.; Scanlon, S.; Pulido, M.; Blake, J.; Florut, A.; Sarkissian, H.; McClain, R.; Toure, P. Understanding the THF-Magic: Stereoselective Radical C-C Bond Formation in Dicobalthexacarbonyl-Propargyl Complexes. 225th ACS National Meeting, New Orleans, March **2003**.

38. Melikyan, G. G. Southern California Biomedical Council 2003, Los Angeles, CA; March **2003**.

39. Melikyan, G. G. Susan Love Breast Cancer Symposium, Santa Barbara, CA; March **2003**.

40. Melikyan, G. G. California Breast Cancer Research (CBCR) Symposium, San Diego, CA; Sept **2003**.

41. Melikyan, G. G. Southern California Biomedical Council **2004**, Los Angeles, CA; March **2004**.

42. Melikyan, G. G.; Mehta, D.; Florut, A.; Rowe, A.; Terzian, A.; Carlson, L. Radical C-C Bond Formation in Cobalt-Propargyl Complexes: Stereoselective Access to Novel Aromatase Inhibitors. Gordon Conference 2005: New Frontiers in Cancer Detection and Prognosis. Buellton, CA, **2005**.

43. Melikyan, G. G. The 4th Susan Love Breast Cancer Symposium on the Intraductal Approach, Santa Barbara, CA; March **2005**.

44. Melikyan, G. G. 45th SoCalBio Networking Forum, Dec **2005**, Los Angeles, CA.
45. Melikyan, G. G. 8th SoCalBio Investor Conference **2006**, Los Angeles, CA; March 2006.
46. Melikyan, G. G.; Rowe, A.; Florut, A.; Wild, C.; Devletyan, L.; Nezami, N.; Carlson, L.; Hirakawa, Y.; Dean, N. Inter- and Intramolecular, Homo- and Cross-Coupling Radical Reactions: Diastereoselectivity Introduced by a Transition Metal Cluster. 232th ACS National Meeting, San Francisco, **2006**.
47. Melikyan, G. G. California Breast Cancer Research (CBCR) Symposium, Los Angeles, CA; Sept **2007**.
48. **Invited presentation:** Melikyan, G. G. New Radical Reactions in Cobalt-Alkyne Series. International Organometallics Conference 2008, ZING Conferences, Cancun, Mexico, **2008**, p. 26.
49. Melikyan, G. G. The 6th Susan Love Breast Cancer Symposium on the Intraductal Approach, Santa Monica, CA, Feb **2009**.
50. Melikyan, G. G.; Sepanian, R.; Carlson, L.; Toure, P. Unorthodox Methods for Generation of Transition Metal-Enhanced Propargyl Radicals: Scope, Substrate Base, Function Tolerance, Synthetic Potential, and Diastereoselectivity of C-C Bond Formation. 238th ACS National Meeting, Washington, D.C., **2009**, #361.
51. Melikyan, G. G.; Spencer, R.; Voorhees, E.; Toure, P. Intramolecular Radical Reactions Enabled by Transition Metals. 238th ACS National Meeting, Washington, D.C., **2009**, #624.
52. **Invited presentation:** Melikyan, G. G. Transition Metal-Mediated Radical Reactions and Development of Novel Therapeutic Means for Breast Cancer Treatment. General Assembly of National of Academy of Sciences, Yerevan, Armenia, **2009**.
53. Melikyan, G. G.; Harutyunyan, S.; Rivas, B.; Sepanian, R.; Carlson, L.; Voorhees, E. Generation of Cobalt-Complexed Propargyl Cations Under Neutral Conditions: Radical C-C Bond Formation in the Presence of Acid-Sensitive Functionalities. 241th ACS National Meeting, Anaheim, CA, **2011**, #312.
54. Melikyan, G. G. 7th International Symposium on the Intraductal Approach to Breast Cancer, Santa Monica, CA; Feb **2011**.

55. Melikyan, G. G.; Carlson, L.; Rivas, B.; Voorhees, E. Debunking Myths about Cobalt-Complexed Propargyl Cations and Radicals. 243rd ACS National Meeting, San Diego, CA, **2012**.

56. Melikyan, G. G.; Voorhees, E.; Rivas, B.; Darabidian, V.; Meron, D.; Garrison, M. Recent Advances in Transition Metal-Assisted Radical Reactions. 243rd ACS National Meeting, San Diego, CA, **2012**.

57. Melikyan, G. G.; Hughes, R.; Sahakyan, N. Allylic Rearrangements in Cobalt-Mediated Radical Coupling Reactions. 245th ACS National Meeting, New Orleans, CA, **2013**.

58. Melikyan, G. G.; Voorhees, E.; Darabidian, V.; Duncan, K. 1,3-Steric Induction in Metal-Mediated Inter- and Intramolecular Radical Reactions. 245th ACS National Meeting, New Orleans, CA, **2013**.

59. Melikyan, G. G. California Breast Cancer Research (CBCR) 20th Anniversary Symposium, Costa Mesa, CA; May **2013**.

60. Melikyan, G. G.; Anker, B.; Davis, R. Radical Reactions of 1,4-Alkadiynes: Regio-, Chemo-, and Stereoselective C-C Bond Formation Mediated by a Metal Core. 248th ACS National Meeting, San Francisco, CA, **2014**.

61. Melikyan, G. G.; Anker, B.; Hughes, R.; Duncan, K. From Transient to Persistent Propargyl Radicals: Exploiting a Steric Factor. 248th ACS National Meeting, San Francisco, CA, **2014**.

62. Melikyan, G. G. 8th International Breast Cancer Research Conference, Santa Monica, CA; Feb **2015**.

63. Melikyan, G. G.; Davis, R.; Cappuccino, S.; Mousselli, M. Propargyl Radical Chemistry: Unlocking the Potential. 250th ACS National Meeting, Boston, MA, **2015**.

INVITED PRESENTATIONS AT ACADEMIC INSTITUTIONS (17)

1. University of Hamburg, Hamburg, Germany (**1991**).

2. University of Hannover, Hannover, Germany (**1991**).
3. Institute of Organic Chemistry, NAS, Yerevan, Armenia (**1991**).
4. University of Erlangen-Nurnberg, Erlangen, Germany (**1992**).
5. University of Oklahoma, Norman, OK (**1993**).
6. University of California Riverside, "Carbon-Centered Organometallic Radicals: Generation, Reactivity Pattern and Stereocontrol" (**1996**).
7. University of Southern California, Loker Hydrocarbon Institute "Diastereocontrol in Organometallic Radical Chemistry: Recent Results" (**1999**).
8. California State University Northridge, Faculty Fair "Transition Metal Complexed Organic Radicals: Generation, Chemistry and Practical Applications" (**1997**).
9. California State University Los Angeles, "Novel Transition Metal Directed Radical Reactions" (**1998**).
10. National Academy of Sciences (Armenia), Department of Natural Sciences, "The Role of Transition Metals in Modern Organic Chemistry" (**1998**).
11. University of California San-Diego, Beyond the Basics: Heteroatom-Activated C-H Bond as a Reducing Molecular Unit (**1999**).
12. California State University Northridge, Faculty Fair. Carcinogenic Agents, Metallopharmaceuticals, and UnOrthodox Radical Chemistry (**2000**).
13. University of Pierre and Marie Curie, Paris. Unorthodox Radical Chemistry and Its Biological Implications (**2001**).
14. California State University Long Beach, Long Beach, CA. Inter- and Intramolecular, Homo- and Cross-Coupling Radical Reactions Stereodirected by a Transition Metal Cluster (**2009**).

15. University of Oklahoma, Norman, OK. Recent Advances in Cobalt-Mediated Radical Reactions (**2014**).

16. California State University Northridge, Northridge, CA. Propargyl Radical Chemistry: Rebirth (**2014**).

17. California State University Northridge, Northridge, CA. Organic Chemistry Highlights in CSUN Department of Chemistry (**2015**).

**PUBLIC HEARINGS ON CARCINOGENS AND REPRODUCTIVE TOXICANTS
AT THE STATE AND FEDERAL AGENCIES**

1. Melikyan, G. G. Diaminotoluenes (mix): to List or Not to List. Cancer Identification Committee, OEHA Cal EPA, Sacramento, CA, **2015**.

PUBLIC APPEARANCES (30 / 22 - book related)

2002	Invited speaker, U.S. Civilian Research & Development Foundation (CRDF) and Armenian Diaspora meeting, Glendale, CA;
2007	Speaker, Alumni & Friends of Armenian Studies program (AFASP) banquet, CSUN, Northridge, CA;
2008	Speaker, Graduation Ceremony, Armenian Studies Program, CSUN, Northridge, CA;
2008	Speaker, 25 th Anniversary Meeting of the Armenian Studies Program, CSUN, Northridge, CA;
2009	Invited speaker, Ferrahian High School, Tarzana, CA;
2009	Speaker, High School Junior Honor's Day, CSUN, Northridge, CA;

- 2010 Invited speaker, *Guilty Until Proven Innocent: Antioxidants, Foods, Supplements, and Cosmetics*. ARPA Institute, book presentation, Thousands Oaks, CA;
- 2011 Invited speaker, *Guilty Until Proven Innocent: Antioxidants, Foods, Supplements, and Cosmetics*. Ararat-Eskijian Museum, book presentation, Mission Hills, CA;
- 2011 Invited speaker, *Guilty Until Proven Innocent: Antioxidants, Foods, Supplements, and Cosmetics*. PhiDE Fraternity, book presentation, CSUN, Northridge, CA;
- 2011 Invited speaker, *Guilty Until Proven Innocent: Antioxidants, Foods, Supplements, and Cosmetics*. Organization of Istanbul Armenians (OIA), book presentation, Tarzana, CA;
- 2011 Invited speaker, *Guilty Until Proven Innocent: Antioxidants, Foods, Supplements, and Cosmetics*. California Writer's Club, SFV, book presentation, Canoga Park, CA;
- 2011 Invited speaker, *Guilty Until Proven Innocent: Antioxidants, Foods, Supplements, and Cosmetics*. Mission Community Hospital, book presentation, Panorama City, CA;
- 2011 Invited speaker, *From Food Preservation to Body Preservation*. Provost Colloquium, Jeromy Richfield Award presentation, CSUN, Northridge, CA;
- 2011 Invited speaker, *Guilty Until Proven Innocent: Antioxidants, Foods, Supplements, and Cosmetics*. Filipino American Chamber of Commerce of Orange County, book presentation, Garden Grove, CA;
- 2011 Invited speaker, *Staying Healthy and Insights into "Natural" in Health Foods, Remedies, and Cancer Prevention*. Inland Empire Asian Business Association (IEABA), Riverside, CA.
- 2011 Invited Speaker, *Health is Wealth*. USANA Inc. Regional Center, Signal Hills, CA.
- 2012 Speaker, *Book Bazaar, Guilty Until Proven Innocent: Antioxidants, Foods, Supplements, and Cosmetics*. California Writer's Club, SFV, Woodland Hills, CA.

- 2012 Invited speaker, *Dangers of Antioxidants and All-Natural Supplements: a Lonely Voice of Dissent*. Armenian Engineers and Scientists of America (AESA), Glendale, CA.
- 2013 Panelist, California Writers' Club, San Fernando Valley, Woodland Hills, CA.
- 2013 Invited Speaker, *Antioxidants, Supplements, and Cosmetics: Perils of Ignoring Science*. Student Organization for a Holistic-approach to Health and Leadership (SOHHL), Phi Delta Epsilon Fraternity, Chicano's Community Medicine (CCM) Student Organization, CSUN, Northridge, CA;
- 2013 Guest Speaker, *Women's History Month* event, *Antioxidants, Supplements, and Cosmetics: Perils of Ignoring Science*. United States Citizenship and Immigration Services (USCIS) San Fernando Valley Field Office (SFV);
- 2013 Speaker, 30th Anniversary of the Armenian Studies Program, CSUN, Northridge, CA.
- 2013 Guest Speaker, *Food Supplements and Your Health*. Kiwanis International, Northridge Chapter, Northridge, CA.
- 2014 Speaker, *Toxicity of Heavy Metals and a Long-Term Impact of Irresponsible Mining on Public Health*, CSUN, Northridge, CA.
- 2014 Invited Speaker, *Antioxidants and Natural Supplements: Unraveling the Truth*, Pierce College, Woodland Hills, CA.
- 2014 Invited Speaker, *American Public's Perpetual Struggle Against Harmful Business Practices*, Public Advocacy Group Renaissance Armenia (via satellite), Yerevan.
- 2014 Speaker, *Why "Natural" Is Not Synonymous to "Good" and Harmless,*" Vroman's Bookstore, Pasadena, CA.
- 2014 Invited Speaker, *Antioxidants, Supplements, and Cosmetics: Perils of Ignoring Science*, Regional High School Science Teachers' Conference, Ferrahian High School, Encino, CA.

- 2014 Invited Speaker, *Teaching Science in the 21st Century: Challenges and Solutions*, Regional High School Science Teachers' Conference, Ferrahian High School, Encino, CA.
- 2015 Invited Speaker, *The Centennial of Armenian Genocide: Did the World Learn the Lesson, or How to Prevent Genocides in the 21st Century?* CSUN, Northridge, CA.

TV APPEARANCES (5)

- 2009 AMGA channel, Glendale, CA;
- 2011 USArmenia channel, Burbank, CA;
- 2011 CBS KCAL9, Studio City, CA;
- 2012 USArmenia channel, Burbank, CA;
- 2013 *The Book Beat*, LATalkLive channel, Los Angeles, CA.

RADIO INTERVIEWS (9)

- 2012 DresserAfterDark, BBS Radio;
- 2012 KYNT KSWR radio;
- 2012 KCWR radio;
- 2012 KERN Bakersfield Good Morning News radio;
- 2012 WOCM radio;
- 2012 KCSN-FM radio;
- 2012 KFNX radio;
- 2012 IssuesToday radio;
- 2012 Dr. Joe Radio Show.

PUBLIC OUTREACH

(book fairs, educational venues, health workshops)

- 2011 Los Angeles Times Book Fair, Los Angeles, CA (April 2011).
- 2011 Los Angeles County Book Fair, Los Angeles, CA (November 2011).

STUDENT PRESENTATIONS (total of 110; undergraduate - 62)

1. Deravakian, A. The Chemistry of the Co-Alkyne Complexes. Students' Research Seminar, CSUN, Northridge, CA, **1996**.
2. Deravakian, A. Diastereoselective Coupling of Organometallic Radicals. Sigma Xi Competition CSUN, Northridge, CA, **1996**.
3. Yadegar, S. Carbon-Carbon Bond-Forming Reactions Promoted by Trivalent Manganese. Students' Research Seminar, CSUN, Northridge, CA, **1996**.
4. Bright, S. Polystabilized Cobalt-Complexed Propargyl Cations and Radicals. Southern California Conference on Undergraduate Research, Los Angeles, CA, **1996**.
5. Deravakian, A. Diastereoselective Coupling of Organometallic Radicals. Southern California Conference on Undergraduate Research, Los Angeles, CA, **1996**.
6. Deravakian, A. Hydride-Ion, Lewis Acid-Induced Highly Diastereoselective Coupling of Cobalt-Complexed Propargyl Alcohols. ACS 213th National Meeting, San Francisco, CA, **1997**.
7. Yadegar, S. Radical Additions to Chiral Co-Complexed Conjugated Enynes. ACS 213th National Meeting, San-Francisco, CA, **1997**.
8. Myer, S. Syntheses Involving Generation and Coupling of Cobalt-Complexed Propargyl Radicals. 1st CSUN Student Research Symposium, Northridge, CA, **1997**.

9. Amiryan, F. Manganese(III)-Glycolate: a Novel Radical Mediator. 1st CSUN Student Research Symposium, Northridge, CA, **1997**.
10. Yadegar, S. Manganese(III)-Mediated Radical Cycloadditions: Mechanistic Study. Sigma Xi Competition CSUN, Northridge, CA, **1997**.
11. Deravakian, A. Can Tetrahydrofuran Act as a One-Electron Donor? Sigma Xi Competition CSUN, Northridge, CA, **1997**.
12. Myer, S. Novel Methods for the Construction of 1,5-Cycloalkadiynes. ACS 214th National Meeting, Las Vegas, CA, **1997**.
13. Amiryan, F. Taylor-Made Manganese Complexes. ACS 214th National Meeting, Las Vegas, CA, **1997**.
14. Amiryan, F. Manganese(III)-Based Catalysts for Asymmetric Epoxydation. Students' Research Seminar, CSUN, Northridge, CA, **1997**.
15. Yadegar, S. Toward Stereocontrolled Radical Reactions: Generation and Synthetic Utility of Co-Complexed Propargyl Radicals. 2nd CSUN Student Research Symposium, Northridge, CA, **1997**.
16. Deravakian, A. An Activated C-H Bond as a Source of Electrons: Stereoselective Inter- and Intramolecular Radical Couplings. Southern California Conference on Undergraduate Research, Los Angeles, CA, **1997**.
17. Yadegar, S. Novel Approach Toward Stereoselective Radical Reactions of Cobalt-Complexed Enynes. Twelfth Annual CSU Student Research Competition, Chico, CA, **1998**.
18. Deravakian, A. Nontraditional Radical Chemistry: Recent Advances. Sigma Xi Competition CSUN, Northridge, CA, **1998**.
19. Amiryan, F. Manganese(III)/(II) Glycolated: Syntheses. X-Ray Crystallographic Study, and Utilization in Radical Cycloaddition Reactions. Sigma Xi Competition CSUN, Northridge, CA, **1998**.

20. Yadegar, S. Redox Methods for Carbon-Centered Radical Generation. Literature seminar, Department of Chemistry, CSUN, Northridge, CA, **1998**.
21. Christian, N. Radical Reactions in Cobalt-Alkyne Series. 4th CSUN Student Research Symposium, Northridge, CA, **1999**.
22. Myer, S. Electrochemistry of Organometallic Complexes. Literature seminar, Department of Chemistry, CSUN, Northridge, CA, **1998**.
23. Yadegar, S. Chiral Cobalt-Complexed Conjugated Enynes: Design, Synthesis and Radical Cycloaddition Reactions, thesis defense, Department of Chemistry, CSUN, Northridge, CA, **1999**.
24. Myer, S. Coupling Reactions of Dicobalt Hexacarbonyl Propargyl Radicals, thesis defense, Department of Chemistry, CSUN, Northridge, CA, **1999**.
25. Riahi, B. The C-H Bond Activation by Transition Metal Complexes. Literature seminar, Department of Chemistry, CSUN, Northridge, CA, **1999**.
26. Shendelson, G. Chemical Carcinogens: Classification, Mechanism of Action, and Biotesting. Literature seminar, Department of Chemistry, CSUN, Northridge, CA, **1999**.
27. Christian, N. Reductive Dimerization of Propargyl Alcohols: New Insight into the Mechanism and Controlling Factors. Sigma Xi Competition CSUN, Northridge, CA, **2000**.
28. Villena, F. Vanadium Compounds as Insulin Mimics. Literature seminar, Department of Chemistry, CSUN, Northridge, CA, **2000**.
29. Villena, F. Stereoselective Dimerization of Cobalt-Complexed Propargyl Cations Mediated by DNA Mimics. Sigma Xi Competition CSUN, Northridge, CA, **2000**.
30. Ahrens, B. Novel Synthetic Applications of Transition Metal-Alkyne Complexes: Total Synthesis of *d,l*-Hexestrol. 5th CSUN Student Research Symposium, Northridge, CA, **2000**.

31. Riahi, B. Transition Metal-Based Coordination Complexes for DNA-Probing. ACS 221th National Meeting, San Diego, CA, **2001**.
32. Ahrens, B. Novel Synthetic Applications of Cobalt-Alkyne Complexes. Total Synthesis of *d,l*-Hexestrol. ACS 221th National Meeting, San Diego, CA, **2001**.
33. Villena, F. Mechamistic Investigation of Cobalt-Complexed Propargyl Radical Dimerization. 37th ACS Western Regional Meeting, Santa Barbara, CA, **2001**.
34. Riahi, B. Novel Organometallic Probes for Biochemical Studies. Thesis defense, Department of Chemistry, CSUN, Northridge, CA, **2001**.
35. Villena, F.; Scanlon, S.; Matchett, J.; Sepanian, S. The "CSUN Reaction": Current Level of Understanding, Biological Relevance, and its Practical Application. 6th CSUN Student Research Symposium, Northridge, CA, **2001**.
36. Pulido, M. Understanding the "CSUN Reaction": Synthesis of the Model Compound, 3-(4'-Methoxyphenyl)-1-propyne Dicobalthexacarbonyl Complex. RISE Program Annual Symposium, Northridge, CA, **2002**.
37. Pulido, M. Spontaneous Generation and Coupling of Cobalt-Complexed Propargyl Radical. 7th CSUN Student Research Symposium, Northridge, CA, **2002**.
38. Florut, A. Developing Novel Inhibitors of Microtubule Assembly. Sigma Xi Competition CSUN, Northridge, CA, **2003**.
39. Villena, F. Novel Reactions of Ligand-Based Organometallic Radicals. Thesis defense, Department of Chemistry, CSUN, Northridge, CA, **2003**.
40. Pulido, M.; Sarkissian, H.; Sepanian, S. Spontaneous Generation and Coupling of Cobalt-Complexed Propargyl Radicals. Annual CSU Student Research Competition, Stanislaus, CA, **2003**.

41. Florut, A.; Wild, C. Radical C-C Bond Formation in Cobalt-Propargyl Complexes: Stereoselective Access to the Novel Nonsteroidal Hormones. 227th ACS National Meeting, Anaheim, March **2004**.
42. Florut, A. Regio- and Stereoselectivity of Organometallic Radical Cross-Coupling Reactions and Their Relevance to Medicinal Chemistry. IXth CSUN Student Research Symposium, Northridge, CA, **2004**.
43. Rowe, A.; Terzian, A. Stereoselective Synthesis of *D,L*-3,4-Di(3',4'-dimethoxyphenyl)-1,5-hexadiyne, a Potential Aromatase Inhibitor. IXth CSUN Student Research Symposium, Northridge, CA, **2004**.
44. Rowe, A. Pheromones. Literature seminar, Department of Chemistry & Biochemistry, CSUN, Northridge, CA, **2004**.
45. Carlson, A. Structure-Activity Relationships of Estrogen Receptor Modulators. Literature seminar, Department of Chemistry & Biochemistry, CSUN, Northridge, CA, **2005**.
46. Rowe, A. Stereoselective Synthesis of *D,L*-3,4-Di(3',4'-dimethoxyphenyl)-1,5-hexadiyne, a Potential Aromatase Inhibitor. CSU-Wide Student Research Competition, Sacramento, CA, **2005**.
47. Florut, A.; Devletyan, L. Probing a Cross-Coupling of Organometallic Radicals: Stereoselective Access to Unsymmetrical *D,L*-3,4-Diphenyl-1,5-alkadiynes. 40th Western ACS Regional Meeting, Anaheim, CA, **2006**.
48. Rowe, A. Topologically Diverse *D,L*-3,4-Diaryl-1,5-alkadiynes: Design, Stereoselective Synthesis, and Biotesting. Thesis defense, Department of Chemistry&Biochemistry, CSUN, Northridge, CA, **2006**.
49. Melikyan, G. G.; Wild, C. Cobalt-Induced Stereoselectivity of Intramolecular Radical Reactions. 232th ACS National Meeting, San Francisco, **2006**.
50. Wild, C. Developing Stereoselective Synthesis of 1,5-Cycloalkadiynes. Sigma Xi Competition CSUN, Northridge, CA, **2006**.
51. Wild, C. Developing Stereoselective Synthesis of 1,5-Cycloalkadiynes. 11th CSUN Student Research Symposium, Northridge, CA, **2006**.

52. Wild, C. Synthesis of Topologically Diverse Eneidyne: Potential Anticancer Agents. Emeritus Faculty Luncheon, College S&M, CSUN, Northridge, CA, **2006**.

53. Floruti, A. Sneak Poison: Healing Bite. Literature seminar, Department of Chemistry & Biochemistry, CSUN, Northridge, CA, **2006**.

54. Wild, C. Drug Design: Target Identification, Target Validation, Prodrug Design, and Lead Optimization. Literature seminar, Department of Chemistry & Biochemistry, CSUN, Northridge, CA, **2007**.

55. Wild, C. Exploiting a Phenomenon of CH/p Coordination: Interpretation of the Diastereoselectivity of Cobalt-Mediated Intramolecular Radical Cyclizations. 12th CSUN Student Research Symposium, Northridge, CA, **2007**.

56. Mikailian, B. Novel High-Temperature and Spontaneous Radical Coupling Reaction: Kinetic Studies. 12th CSUN Student Research Symposium, Northridge, CA, **2007**.

57. Wild, C. Unexpected Trends in Metal Cluster-Directed, Intramolecular Radical Cyclizations. 235th ACS National Meeting, New Orleans, **2008**.

58. Mikailian, B. A High-Temperature, Spontaneous, and Cobalt Cluster-Mediated Radical Coupling Reaction. 235th ACS National Meeting, New Orleans, **2008**.

59. Mikailian, B. Cobalt-Mediated High-Temperature Radical Coupling Reactions. 10th Annual Sigma Xi Scientific Research Society — CSUN Chapter Student Symposium, Northridge, CA, **2008**.

60. Floruti, A. Cross-Coupling of Cobalt-Complexed Propargyl Radicals: Chemo-, Regio-, and Diastereoselective Access to 3,4-Diaryl-1,5-hexadiynes. Thesis defense, Department of Chemistry&Biochemistry, CSUN, Northridge, CA, **2008**.

61. Carlson, L. Toward Non-Toxic Therapeutics for a Breast Cancer Treatment: Cobalt-Mediated Stereoselective Synthesis of Substituted *d,l*-3,4-Diphenyl-1,5-hexadiynes. 10th Annual Sigma Xi Scientific Research Society — CSUN Chapter Student Symposium, Northridge, CA, **2008**.

62. Wild, C. A Novel Approach Toward the Synthesis of Enediynes: Metal-Directed Formation of Medium-Sized Cyclic Diacetylenes. CSU-wide Student Research Competition, CSU East Bay, Hayward, CA, **2008**.

63. Wild, C. Cobalt-Assisted Intramolecular Radical Cyclization Reactions. Thesis defense, Department of Chemistry & Biochemistry, CSUN, Northridge, CA, **2008**.

64. Carlson, L. Cobalt-Mediated Synthesis of *d,l*-3,4-Diphenyl-1,5-hexadiynes Containing Acid-Labile Aromatic Substituents. Association of Retired Faculty Luncheon, CSUN, Northridge, CA, **2008**.

65. Melikyan, G. G.; Mikailian, B.; Sepanian, R. The Effect of Counter-ion, Temperature, and Substitution upon the Spontaneous, Cobalt Cluster-Mediated Dimerization Reaction. 42nd Western Regional ACS Meeting, Las Vegas, **2008**.

66. Melikyan, G. G.; Carlson, L.; Spencer, R. Impact of Aromatic Substitution and Reducing Agent on Diastereoselectivity of Intra- and Intermolecular Cobalt-Mediated Radical Reactions. 42nd Western Regional ACS Meeting, Las Vegas, **2008**.

67. Spencer, R. Radical Carbon-Carbon Bond Formation Stereodirected by an Alpha-Metal Core. 13th CSUN Student Research Symposium, Northridge, CA, **2009**.

68. Spencer, R. Inhibition of Sulfatase: a New Frontier in Breast Cancer Treatment. Literature seminar, Department of Chemistry & Biochemistry, CSUN, Northridge, CA, **2009**.

69. Sepanian, R. Overcoming a Longstanding Challenge: Synthesis of Cobalt-Complexed Propargyl Cations under Neutral Conditions. 11th Annual Sigma Xi Scientific Research Society — CSUN Chapter Student Symposium, Northridge, CA, **2009**.

70. Spencer, R. Controlling Stereoselectivity of Cobalt-Mediated Inter- and Intramolecular Coupling Reactions. 11th Annual Sigma Xi Scientific Research Society — CSUN Chapter Student Symposium, Northridge, CA, **2009**.

71. Sepanian, R. Generation of Cobalt-Complexed Propargyl Cations under *Neutral Conditions*. 2009 Southern California Undergraduate Research Conference (SCURC) in Chemistry and Biochemistry, USC, Los Angeles, CA, **2009**.

72. Shahmirian, S. Propargyl Methyl Ethers: Novel Precursors to Cobalt-Complexed Propargyl Cations. Southern California Junior Academy of Sciences (SCJAS) Annual Meeting, Marymount College, Palo Verdes, CA, **2009**.

73. Spencer, R. Radical Carbon-Carbon Bond Formation Stereodirected by an Alpha Metal Core. Salva Regina University, Newport, RI, **2009**.

74. Shahmirian, S. Propargyl Methyl Ethers: Novel Precursors to Cobalt-Complexed Propargyl Cations. AAAS Pacific Division Annual Meeting, San Francisco, CA, **2009**.

75. Spencer, R. First Stereoselective Synthesis of *meso*-1,5-Cyclodecadiynes. 14th CSUN Student Research Symposium, Northridge, CA, **2010**.

76. Sepanian, R. Novel Methods for the Synthesis of Breast Cancer Aromatase Inhibitors. 14th CSUN Student Research Symposium, Northridge, CA, **2010**.

77. Voorhees, E. The Use of a Rigid Carbon Tether as a Stereochemical Tool in Intramolecular Radical Cyclizations. 14th CSUN Student Research Symposium, Northridge, CA, **2010**.

78. Spencer, R. Novel Methods for Controlling Stereoselectivity of Radical C-C Bond Forming Reactions. Graduate Fellows with Outstanding Research Promise in Science and Mathematics Symposium, College of Science & Math, CSUN, Northridge, CA, **2010**.

79. Spencer, R. Inter- and Intramolecular Radical C-C Bond Formation Mediated by a Transition Metal Core. Thesis defense, Department of Chemistry & Biochemistry, CSUN, Northridge, CA, **2010**.

80. Voorhees, E. The Use of a Rigid Carbon Tether as a Stereochemical Tool in Intramolecular Radical Cyclizations, CSU-wide Student Research Symposium, San Jose, CA, **2010**.

81. Sepanian, R. Generation of Cobalt-Complexed Propargyl Cation Under Neutral Conditions and Their Biological Relevance. Thesis defense, Department of Biology, CSUN, Northridge, CA, **2010**.

82. Harutyunyan, S.; Rivas, B. Naphthalene-Stabilized Propargyl Cations and Radicals in Carbon-Carbon Bond Forming Reactions. 15th CSUN Student Research Symposium, Northridge, CA, **2011**.

83. Melikyan, G. G.; Harutyunyan, S.; Rivas, B. Generation of Cobalt-Complexed Propargyl Cations Under Neutral Conditions: Expansion of the Substrate Base. 241th ACS National Meeting, Anaheim, **2011**.

84. Rivas, B.; Harutyunyan, S. Diastereoselectivity of Radical Carbon-Carbon Bond Formation in Naphthalene-Stabilized Propargyl Cations. Southern California Undergraduate Research Conference, Santa Barbara, CA, **2011**.

85. Voorhees, E. Testosterone and Male Hormone Replacement Therapy. Literature seminar, Department of Chemistry and Biochemistry, CSUN, Northridge, CA, **2011**.

86. Melikyan, G. G.; Darabidian, V.; Meron, D. Novel Syntheses of Polysubstituted, Alkynylated Cycloalkanes via Transition Metal-Mediated Radical Cyclizations. 243th ACS National Meeting, San Diego, **2012**.

87. Melikyan, G. G.; Voorhees, E.; Garrison, M. Propargyl Acetals as New Substrates in Transition Metal-Mediated Radical C-C Bond Formation Reactions. 243th ACS National Meeting, San Diego, **2012**.

88. Darabidian, V. Assembling Six-Membered Carbocycles via Radical Cyclization Reactions. 15th CSUN Student Research Symposium, Northridge, CA, **2012**.

89. Melikyan, G. G.; Hughes, R.; Sahakyan, N. Alpha-Alkenyl Propargyl Radicals: Regio- and Stereoselectivities of Cobalt-Directed Dimerization Reactions. 245th ACS National Meeting, New Orleans, **2013**.

90. Melikyan, G. G.; Darabidian, V. Stereoselectivity of Intramolecular Radical Cyclizations Mediated by a Transition Metal Core. 245th ACS National Meeting, New Orleans, **2013**.

91. Sahakian, N. Cobalt Cluster-Stabilized, Highly Conjugated Propargyl Radicals: Stereoselectivity of Intermolecular Coupling Reactions. 16th CSUN Student Research Symposium, Northridge, CA, **2013**.

92. Hughes, R. Highly Regioselective Dimerization Reactions of α -Alkenyl Propargyl Radicals. 16th CSUN Student Research Symposium, Northridge, CA, **2013**.

93. Darabidian, V. Toward stereoselective assembling of linearly and angularly fused carbocycles. 16th CSUN Student Research Symposium, Northridge, CA, **2013**.

94. Anker, B. *alpha*-Alkynyl Propargyl Radicals, a New Class of Reactive Intermediates in Transition Metal-Mediated Carbon-Carbon Bond Forming Reactions. 15th Annual Sigma Xi Student Research Symposium, CSUN Chapter of Sigma Xi, CSUN, Northridge, CA, **2013**.

95. Sahakian, N. Cobalt Cluster-Stabilized, Highly Conjugated Propargyl Radicals: Stereoselectivity of Intermolecular Coupling Reactions. CSU-wide Student Research Competition, Pomona, CA, **2013**.

96. Voorhees, Erin. Transition Metal-Mediated Radical Reactions of Propargyl Acetals. Thesis defense, Department of Chemistry & Biochemistry, CSUN, Northridge, CA, **2013**.

97. Anker, Bryan. From the Metal-Stabilized, Highly Conjugated Propargyl Intermediates to a New Generation of Tunable DNA-Cleaving Agents for Cancer Treatment. CSUN Alumni Faculty Recognition Luncheon, CSUN, Northridge, CA, **2013**.

98. Melikyan, G. G.; Duncan, K. An Efficient and Stereoselective Method for Constructing Seven-membered Carbo- and Heterocycles. 44th ACS Western Regional Meeting, Santa Clara, CA, **2013**.

99. Hughes, R. Vitamin E: Stereoselective Syntheses, Biological Role, and Health Implications. Literature seminar, Department of Chemistry and Biochemistry, CSUN, Northridge, CA, **2013**.

100. Hughes, R. Regio- and Stereoselective Rearrangements in Metal-Assisted Radical Reactions: a Novel Access to Topologically Diverse Molecular Assemblies with Contiguous Quaternary Carbons. 17th CSUN Student Research Symposium, Northridge, CA, **2014**.

101. Anker, B. Radical Reactions of 1,4-Alkadiynes: Metal Coordination as an Effective Tool for Controlling a C-C Bond Formation in Highly Delocalized Molecular Structures. 18th CSUN Student Research Symposium, Northridge, CA, **2014**.

102. Hughes, R. Allylic Rearrangements in Cobalt-Mediated Radical Coupling Reactions. Thesis defense, Department of Chemistry & Biochemistry, CSUN, Northridge, CA, **2015**.

103. Melikyan, G. G.; Davis, R.; Anker, B.; Duncan, K. Acquiring a Predictive Power: Metal-Mediated Radical Dimerizations of Propargyl Triflates. 248th ACS National Meeting, San Francisco, CA, **2014**.

104. Melikyan, G. G.; Cappuccino, S. Interaction of Resveratrol with Human Enzymes: Oxidative Conversion to Procarcinogenic ortho-Hydroquinones. 248th ACS National Meeting, San Francisco, CA, **2014**.

105. Melikyan, G. G.; Davis, R. Cobalt-Complexed Propargyl Radicals: Transiency vs Persistency. 2015 ACS Southern California Undergraduate Research Conference (SCURC), La Jolla, CA, **2015**.

106. Melikyan, G. G.; Davis, R. Propargyl Radicals: From Transiency to Persistency to Reaction Site Projection. 250th ACS National Meeting, Boston, MA, **2015**.

107. Melikyan, G. G.; Cappuccino, S.; Mousselli, M. Metal Cluster-Enhanced Propargyl Radicals: Expanding a Substrate Base. 250th ACS National Meeting, Boston, MA, **2015**.

108. Ryan, D. Animating Periphery in Highly Conjugated Molecular Systems: Radical Carbon-Carbon Bond Formation Epsilon to a Cobalt Core. 17th Annual Sigma Xi Student Research Symposium, CSUN Chapter of Sigma Xi, CSUN, Northridge, CA, **2015**.

109. Melikyan, G. G.; Davis, R. Cobalt-Complexed Propargyl Triflates: Achieving Reducibility by Modulating Covalent Bonds. National Conference on Undergraduate Research (NCUR), Asheville, NC (**2016**).

110. Jensen, J.; Philippas, E.; Cappuccino, S. Metabolic Transformations of Resveratrol by Human Enzymes. 20th CSUN Student Research Symposium, Northridge, CA, **2016**.

STUDENT AWARDS (total of 48; 31 - by undergraduates)

1. Asatour Deravakian, Sigma Xi Competition CSUN, Northridge, CA, 1996 - **Second Place Award**.

2. Asatour Deravakian, **Travel Award** for the Participation in the ACS 213th National Meeting, San Francisco, CA, 1997 (Southern California Section, ACS).
3. Sarkhadoun Yadegar, Sigma Xi Competition CSUN, Northridge, CA, 1997 - **Donald Bianchi Award**.
4. Asatour Deravakian, Sigma Xi Competition CSUN, Northridge, CA, 1997 - **Best Presentation Award**.
5. Sarkhadoun Yadegar, **Travel Award** for the Participation in the ACS 213th National Meeting, San Francisco, CA, 1997 (ORSP, CSUN).
6. Steven Myer, 1st CSUN Student Research Symposium, 1997 - **First Place Award** (ORSP, CSUN).
7. Steven Myer, **Travel Award** for the Participation in the ACS 214th National Meeting, Las Vegas, CA, 1997 (ORSP, CSUN).
8. Fredrick Amiryan, **Travel Award** for the Participation in the ACS 214th National Meeting, Las Vegas, CA, 1997 (Southern California Section, ACS).
9. Sarkhadoun Yadegar, 2nd CSUN Student Research Symposium, 1997 - **First Place Award** (ORSP, CSUN).
10. Arelys Morales, **Outstanding Junior Award**, College of Science and Mathematics, CSUN, 1998.
11. Asatour Deravakian, 1st Annual Sigma Xi Scientific Research Society—CSUN Chapter Student Symposium, Northridge, CA, 1998 - **Third Place Award**.
12. Sarkhadoun Yadegar, California State University, 1998 Student Research Competition, 1998 - **Second Place Award** (CSU Chico).
13. Gary Shandelson, Department of Chemistry, CSUN, Northridge, CA, 1999 - **Hypercube Scholar Award**.
14. Fredrick Amiryan, College of Science and Mathematics, CSUN, Northridge, CA, 1999 - **Donald Bianchi Research Award**.

15. Brian Ahrens, Department of Chemistry, CSUN, Northridge, CA, 2000 - **Organic Chemistry Award**.
16. Michelle Pulido, 7th CSUN Student Research Symposium, Northridge, CA, 2002 - **Second Place Award**.
17. Arthur Florut, 6th Annual Sigma Xi Scientific Research Society—CSUN Chapter Student Symposium, Northridge, CA, 2003 - **First Place Award**.
18. Aaron Rowe, 9th CSUN Student Research Symposium, Northridge, CA, 2004 - **First Place Award**.
19. Arthur Florut. **Bon Bianchi Outstanding Undergraduate Student Research Award**, College of Science and Math, CSUN, Northridge, CA, 2005.
20. Aaron Rowe. **Outstanding Graduate Student Teaching Assistant Award**, Department of Chemistry and Biochemistry, College of Science and Math, CSUN, Northridge, CA, 2005.
21. Christopher Wild. Developing the Stereoselective Synthesis of 1,5-Cycloalkadiynes. 8th Annual Sigma Xi Scientific Research Society— Sigma Xi CSUN Chapter Student Symposium, Northridge, CA, 2006 – **Second Place Award**.
22. Christopher Wild. Developing the Stereoselective Synthesis of 1,5-Cycloalkadiynes. 11th CSUN Student Research Symposium, Northridge, CA, 2006 - **Second Place Award**.
23. Christopher Wild. **Outstanding Graduate Student Teaching Assistant Award**, CSUN, Northridge, CA, 2007.
24. Christopher Wild. 12th CSUN Student Research Symposium, 2007 - **First Place Award** (ORSP, CSUN).
25. Louis Carlson. **2008 Memorial Award**, Association of Retired Faculty, CSUN, Northridge, CA.
26. Christopher Wild. A Novel Approach Toward the Synthesis of Enediynes: Metal-Directed Formation of Medium-Sized Cyclic Diacetylenes. CSU-wide Student Research Competition, CSU East Bay, Hayward, CA, 2008 – **Second Place Award**.

27. Ryan Spencer. **Sandra L. Jewett Scholarship in Biochemistry**, CSUN, Northridge, CA, 2009.
28. Ryan Spencer. **Outstanding Graduate Student Teaching Assistant Award**, CSUN, Northridge, CA, 2009.
29. Ruth Sepanian. Sigma Xi CSUN Chapter Student Symposium, Northridge, CA, 2009 – **Third Place Award**.
30. Ryan Spencer, 2009-2010 College of Science&Math. *Graduate Fellow for Outstanding Research Promise in Science and Mathematics*, CSUN, 2009.
- 31 / 32. Sarine Shahmirian. Propargyl Methyl Ethers: Novel Precursors to Cobalt-Complexed Propargyl Cations. AAAS Pacific Division Annual Meeting, San Francisco, CA, 2009 – **First Place Award** and **Award of Excellence**.
33. Ruth Sepanian. 14th CSUN Student Research Symposium, Northridge, CA, 2010 – **Second Place Award**.
34. Erin Voorhees. 14th CSUN Student Research Symposium, Northridge, CA, 2010 – **First Place Award**.
35. Ryan Spencer, The **2010 Nathan O. Freedman Memorial Award for Outstanding Graduate Student**, CSUN, Northridge, CA, 2010.
36. McKinzie Garrison, **2011 Outstanding Freshman Chemistry Award**, CSUN, Northridge, CA, 2011.
37. Marina Dykhne, **2011 Analytical Chemistry Award**, CSUN, Northridge, CA, 2011.
38. McKinzie Garrison, **2012 Organic Chemistry Award**, CSUN, Northridge, CA, 2012.
39. Michael Enos, **Henry Klostergaard Award for Outstanding Graduating Chemistry Major**, CSUN, Northridge, CA, 2012.
40. Vahe Darabidian. 16th CSUN Student Research Symposium, 2013 - **First Place Award** (ORSP, CSUN).
41. Nare Sahakyan. 16th CSUN Student Research Symposium, 2013 - **Second Place Award** (ORSP, CSUN).

42. Bryan Anker. Sigma Xi CSUN Chapter Student Symposium, Northridge, CA, 2013 – **First Place Award**.
43. Bryan Anker. 17th CSUN Student Research Symposium, 2014 - **Second Place Award** (ORSP, CSUN).
44. McKinzie Garrison, **2014 Outstanding Graduating Senior Award**, CSUN, Northridge, CA, 2014.
45. McKinzie Garrison, **2014 Wolfson Scholar Award**, CSUN, Northridge, CA, 2014.
46. Ryan Davis, **Outstanding Oral Presentation Award**, 2015 ACS Southern California Undergraduate Research Conference (SCURC), San Diego, CA, 2015.
47. Ryan Davis, Sigma Xi CSUN Student Research Symposium, Northridge, CA 2015 – **Second Place Award**.
48. Ryan Davis, Leslie and Terry Cutler Scholarship Award, 2015.

STUDENT PROPOSALS (29; undergraduates - 24)

1. Yadegar, S. Chiral Cobalt-Complexed Conjugated Enynes: Design, Synthesis and Radical Reactions. Office of Research and Sponsored Projects, CSUN, **1995**, funded (\$600).
2. Myer, S. Electrochemically Induced Stereoselective Coupling of $\text{Co}_2(\text{CO})_6$ -Complexed Propargyl Radicals. University Corporation, CSUN, **1995**, not funded.
3. Bright, S. Synthesis and Characterization of the Triply-Stabilized $\text{Co}_2(\text{CO})_6$ -Complexed Propargyl Carbocation and Radical. University Corporation, CSUN, **1995**, funded (\$1,200).
4. Myer, S. Electrochemically-Induced. Diastereoselective Coupling of Organometallic Radicals. Office of Research and Sponsored Projects, CSUN, **1996**, funded (\$600).
5. Deravakian, A. Propargyl Cation Induced Hydride Ion Abstraction, a Novel Approach to the Mechanistic Studies of DNA Strand Cleavage. University Corporation, CSUN, **1996**, funded (\$1,800).

6. Yadegar, S. Chiral Cobalt-Complexed Conjugated Enynes: Design, Synthesis and Mn(III)-Mediated Radical Reactions. University Corporation, CSUN, **1996**, not funded.
7. Monroe, T. Synthesis and Resolution of 1,3-Enyne Cobalt Complexes. University Corporation, CSUN, **1996**, funded (\$3,400).
8. Amiryan, F. Design and Synthesis of Chiral Mn(III) Complexes. University Corporation, CSUN, **1997**, funded (\$3,110).
9. Deravakian, A. C-H Bond Activation in Tetrahydrofuran: an Insight into the Nature of Interaction of Carcinogenic Agents with DNA. University Corporation, CSUN, **1997**, funded (\$3,115).
10. Yadegar, S. Design, Synthesis and Radical Reactions of Chiral Cobalt-Complexed Conjugated Enynes. University Corporation, CSUN, **1997**, not funded.
11. Riahi, B. Novel Organometallic Probe for Biochemical Studies. University Corporation, CSUN, **1998**, funded (\$3,500).
12. Riahi, B. Novel Transition Metal-Based DNA-Cleaving Agents. Office of Research and Sponsored Projects, CSUN, **1999**, funded (\$600).
13. Villena, F. Propargyl Cation-Induced DNA Strand Cleavage: Regio- and Chemoselectivity. University Corporation, CSUN, **1999**, funded (\$2,000).
14. Porazik, M. Toward Novel Inhibitors of Microtubule Assembly: *d,l*-Diaminohexestrol. University Corporation, CSUN, **2001**, funded (\$2,500).
15. Blake, J. Polyquinones as Inhibitors of Microtubule Assembly. University Corporation, CSUN, **2002**, funded (\$2,500).
16. Rowe, A. Synthesis of Topologically Diverse D,L-bis-3,4-(3',4'-Dimethoxyphenyl)-1,5-hexadiynes. Office of Research and Sponsored Projects, CSUN, **2004**, funded (\$700).

17. Mehta, D. Novel Aromatase Inhibitors for a Breast Cancer Cure. University Corporation, CSUN, **2004**, funded (\$1,000).

18. Florut, A. Novel Therapeutic Means for Breast Cancer Cure. Graduate Thesis Support Grant, Office of Research and Sponsored Projects, CSUN, **2005**, funded (\$800).

19. Wild, C. Synthesis and Cycloaromatization of Novel Enediynes, Potential Anticancer Agents. University Corporation, CSUN, **2006**, not funded.

20. Wild, C. Synthesis and Cycloaromatization of Novel Enediynes, Potential Anticancer Agents. University Corporation, CSUN, **2007**, funded (\$2,825).

21. Carlson, L. Synthesis and Metabolomic Study of Aromatase Selective Prodrugs. University Corporation, CSUN, **2007**, funded (\$4,983).

22. Sepanian, R. Metabolism of Caffeic Acid by Human Cytochrome P450 Enzymes. University Corporation, CSUN, **2008**, funded (\$1,000).

23. Voorhees, E. Stereoselective Synthesis of Rigidly Tethered, Polysubstituted 1,5-Cyclodecadiynes and Respective Enediynes, Potential Anticancer Agents. University Corporation, CSUN, **2009**, funded (\$1,855).

24. Abedi, E. Toward Assembling Medicinally Relevant Quinanes: Stereoselective Synthesis of Diethynyl Carbocycles. University Corporation, CSUN, **2009**, funded (\$4,000).

25. Voorhees, E. Propargyl Acetals as New Substrates in Transition Metal-Mediated Radical C-C Bond Formation Reactions. Graduate Thesis Support Grant, Office of Research and Sponsored Projects, CSUN, **2011**, funded (\$1,000).

26. Darabidian, V. Intramolecular Radical Cyclization Mediated by a Transition Metal Core. Graduate Thesis Support Grant, Office of Research and Sponsored Projects, CSUN, **2011**, funded (\$1,000).

27. Hughes, Rhoda. α -Alkenyl Propargyl Radicals: Regio- and Stereoselectivities of Dimerization Reactions. Graduate Thesis Support Grant, Office of Research and Sponsored Projects, CSUN, **2012**, funded (\$1,000).

28. Davis, Ryan. A New-Design Schlenk Line Acquisition for Advanced Organometallic Syntheses. Associated Students Research Competition, CSUN, **2014**, funded (\$2,000).

29. Jensen, Jennifer. Enzymatic Transformations of Resveratrol from Red Wine. Graduate Thesis Support Grant, Office of Research and Sponsored Projects, CSUN, **2015**, funded (\$800).

GRADUATE THESES (12)

1. Yadegar, S. Chiral Cobalt-Complexed Conjugated Enynes: Design, Synthesis and Radical Cycloaddition Reactions. Department of Chemistry, CSUN, Northridge, CA, **1999**.

2. Myer, S. Coupling Reactions of Dicobalthexacarbonyl Propargyl Radicals. Department of Chemistry, CSUN, Northridge, CA, **1999**.

3. Raihi, B. Novel Organometallic Probes for Biochemical Studies. Department of Chemistry, CSUN, Northridge, CA, **2001**.

4. Villena, F. Novel Reactions of Ligand-Based Organometallic Radicals. Department of Chemistry, CSUN, Northridge, CA, **2003**.

5. Rowe, A. Topologically Diverse D,L-3,4-Diaryl-1,5-alkadiynes: Design, Stereoselective Synthesis and Biotesting. Department of Chemistry and Biochemistry, CSUN, Northridge, CA, **2006**.

6. Floruti, A. Cross-Coupling of Cobalt-Complexed Propargyl Radicals: Chemo-, Regio-, and Diastereoselective Access to 3,4-Diaryl-1,5-hexadiynes. Department of Chemistry and Biochemistry, CSUN, Northridge, CA, **2008**.

7. Wild, C. Cobalt-Assisted Intramolecular Radical Cyclization Reactions. Department of Chemistry and Biochemistry, CSUN, Northridge, CA, **2008**.

8. Spencer, R. Inter- and Intramolecular Radical C-C Bond Formation Mediated by a Transition Metal Core. Department of Chemistry and Biochemistry, CSUN, Northridge, CA, **2010**.

9. Sepanian, R. Radical Coupling Reactions Under Neutral Conditions and Their Biological Relevance. Department of Chemistry and Biochemistry, CSUN, Northridge, CA, **2010**.

10. Voorhees, E. Transition Metal-Mediated Radical Reactions of Propargyl Acetals. Department of Chemistry and Biochemistry, CSUN, Northridge, CA, **2013**.

11. Hughes, R. Allylic Rearrangements in Cobalt-Mediated Radical Coupling Reactions. Thesis defense, Department of Chemistry & Biochemistry, CSUN, Northridge, CA, **2015**.

12. Carlson, L. Impact of Temperature, Substrate Topology, and Reducing Agent on Diastereoselectivity of Radical Dimerization Reactions. Thesis defense, Department of Chemistry & Biochemistry, CSUN, Northridge, CA, **2016**.

DIRECTED GRADUATE & UNDERGRADUATE RESEARCH

(since 1995, a total of 84 research students;

450 student-semesters, including 288 undergraduate student-semesters)

Student	Status	Semester	Course	Description
1. Deravakian, Asatour	undergrad.	Fall 1995	Chem495A/B	Dir.Undergrad.Res.
		Win 1996	volunteer	Research
		Spr 1996	volunteer	Research
		Sum 1996	Chem495A/B	Dir.Undergrad.Res.
		Fall 1996	Chem495A/B	Dir.Undergrad.Res.
		Win 1997	volunteer	Research
		Spr 1997	Chem495A/B	Dir.Undergrad.Res.
		Sum 1997	volunteer	Research
		Fall 1997	Chem495A/B	Dir.Undergrad.Res.

2. Bright, Steven	undergrad.	Fall 1995	Chem495A/B	Dir.Undergrad.Res.
		Win 1996	volunteer	Research
		Spr 1996	volunteer	Research
		Sum 1996	Chem495A/B	Dir.Undergrad.Res.
		Fall 1996	Chem495A/B	Dir.Undergrad.Res.
3. Amyrian, Fred	undergrad.	Spr 1997	Chem495A/B	Dir.Undergrad.Res.
		Sum 1997	volunteer	Research
		Fall 1997	Chem495A/B	Dir.Undergrad.Res.
		Win 1998	volunteer	Research
		Spr 1998	Chem495A/B	Dir.Undergrad.Res.
		Sum 1998	volunteer	Research
		Fall 1998	Chem495A/B	Dir.Undergrad.Res.
		Win 1999	volunteer	Research
		Spr 1999	Chem495A/B	Dir.Undergrad.Res.
		Sum 1999	volunteer	Research
		Fall 1999	Chem495A/B	Dir.Undergrad.Res.
4. Yadegar, Sam	graduate	Spr 1997	Chem696A/B	Dir.Grad.Research
		Su 1997	volunteer	Research
		Fall 1997	Chem696A/B	Dir.Grad.Research
		Win 1998	volunteer	Research
		Spr 1998	Chem696A/B	Dir.Grad.Research
		Sum1998	Volunteer	Research
		Fall 1998	Chem696A/B	Dir.Grad.Research
		Win 1999	volunteer	Research
		Spr 1999	Chem696A/B	Dir.Grad.Research
		Sum 1999	Volunteer	Research
		Fall 1999	Chem698A/B	Thesis Seminar
5. Myer, Steven	graduate	Spr 1997	Chem696A/B	Dir.Grad.Research
		Sum 1997	volunteer	Research
		Fall 1997	Chem696A/B	Dir.Grad.Research

		Win 1998	volunteer	Research
		Spr 1998	Chem696A/B	Dir.Grad.Research
		Sum 1998	Volunteer	Research
		Fall 1998	Chem696A/B	Dir.Grad.Research
		Win 1999	volunteer	Research
		Spr 1999	Chem696A/B	Dir.Grad.Research
		Sum 1999	Volunteer	Research
		Fall 1999	Chem698A/B	Thesis Seminar
6. Hayrapetian, Linda	undergrad.	Spr 1997	Chem495A/B	Dir.Undergrad.Res.
		Sum 1997	volunteer	Research
		Fall 1997	Chem495A/B	Dir.Undergrad.Res.
7. Barron, Lisa	undergrad.	Spr 1997	Chem495A/B	Dir.Undergrad.Res.
		Sum 1997	volunteer	Research
		Fall 1997	Chem495A/B	Dir.Undergrad.Res.
8. Conn, Michael	undergrad.	Spr 1997	Chem495A/B	Dir.Undergrad.Res.
		Sum 1997	volunteer	Research
		Fall 1997	Chem495A/B	Dir.Undergrad.Res.
9. Lei, Dennis	undergrad.	Spr 1997	Chem495A/B	Dir.Undergrad.Res.
		Sum 1997	volunteer	Research
10. Monroe, Todd	undergrad.	Spr 1998	Chem495A/B	Dir.Undergrad.Res.
		Sum 1998	volunteer	Research
		Fall 1998	Chem495A/B	Dir.Undergrad.Res.
		Win 1999	volunteer	Research
		Spr 1999	Chem495A/B	Dir.Undergrad.Res.
11. Morales, Arelys	undergrad.	Spr 1998	Chem495A/B	Dir.Undergrad.Res.
12. Steele, Eric	undergrad.	Fall 1998	Chem499A/B	Independent Study

13. Shandelson, Gary	graduate	Spr 1999	Chem696A/B	Dir.Grad.Research
		Sum 1999	volunteer	Research
		Fall 1999	Chem696A/B	Dir.Grad.Research.
14. Paulsen, Kevin	graduate	Fall 1999	Chem599A/B	Independent Study
15. Christian, Nolan	undergrad.	Fall 1999	Chem495A/B	Dir.Undergrad.Res.
		Win 2000	volunteer	Research
		Spr 2000	Chem495A/B	Dir.Undergrad.Res.
16. Villena, Ferdinand	graduate	Sum 1999	volunteer	Research
		Fall 1999	Chem696A/B	Dir.Grad.Research
		Win 2000	volunteer	Research
		Spr 2000	Chem696A/B	Dir.Grad.Research
		Sum 2000	volunteer	Research
		Fall 2000	Chem696A/B	Dir.Grad.Research
		Win 2001	volunteer	Research
		Spr 2001	Chem696A/B	Dir.Grad.Research
		Sum 2001	volunteer	Research
		Fall 2001	Chem696A/B	Dir.Grad.Research
		Win2002	volunteer	Research
		Spr 2002	Chem698A/B	Dir.Grad.Research
17. Lurie, Lewis	undergrad.	Spr 2000	Chem495A/B	Dir.Undergrad.Res.
18. Ahrens, Brian	undergrad.	Spr 2000	Chem495A/B	Dir.Undergrad.Res.
		Sum 2000	volunteer	Research
		Fall 2000	Chem495A/B	Dir.Undergrad.Res.
		Win 2001	volunteer	Research
		Spr 2001	Chem499A/B	Independent Study
19. Arakelyan, Aram	undergrad.	Spr 2000	Chem495A/B	Dir.Undergrad.Res.

20. Abrenica, Edwin	undergrad.	Fall 2000	Chem495A/B	Dir.Undergrad.Res.
		Win 2001	volunteer	Research
		Spr 2001	Chem499A/B	Independent Study
21. Jerome, John	undergrad.	Spr 2001	Chem495A/B	Dir.Undergrad.Res.
22. Matchett, John	undergrad.	Sum 2001	volunteer	Research
		Fall 2001	Chem495A/B	Dir.Undergrad.Res.
23. Riahi, Babak	graduate	Spr 1999	Chem696A/B	Dir.Grad.Research
		Sum 1999	volunteer	Research
		Fall 1999	Chem696A/B	Dir.Grad.Research
		Win 2000	volunteer	Research
		Spr 2000	Chem696A/B	Dir.Grad.Research
		Sum 2000	volunteer	Research
		Fall 2000	Chem696A/B	Dir.Grad.Research
		Win 2001	volunteer	Research
		Spr 2001	Chem698A/B	Thesis Seminar
24. Scanlon, Stephanie	undergrad.	Sum 2001	Volunteer	Dir.Undergrad.Res.
		Fall 2001	Chem495A/B	Dir.Undergrad.Res.
		Win 2002	volunteer	Research
		Spr 2002	Chem499A/B	Independent Study
25. Sepanian, Steve	undergrad.	Fall 2001	Chem495A/B	Dir.Undergrad.Res.
		Win 2002	volunteer	Research
		Spr 2002	Chem495A/B	Dir.Undergrad.Res.
26. Porazik, Maria	undergrad.	Fall 2001	Chem495A/B	Dir.Undergrad.Res.
		Win 2002	volunteer	Research
		Spr 2002	Chem495A/B	Dir.Undergrad.Res.

27. Pulido, Michelle	undergrad.	Spr 2002	Chem495A/B	Dir.Undergrad.Res.
		Sum 2002	Volunteer	Dir.Undergrad.Res.
		Fall 2002	Chem495A/B	Dir.Undergrad.Res.
		Win 2003	volunteer	Research
		Spr 2003	Chem495A/B	Dir.Undergrad.Res.
28. McClain, Randolph	undergrad.	Spr 2002	Chem499A/B	Independent Study
29. Sarkissian, Hagop	undergrad.	Fall 2002	Chem495A/B	Dir.Undergrad.Res.
		Win 2003	volunteer	Research
		Spr 2003	Chem495A/B	Dir.Undergrad.Res.
		Sum 2003	volunteer	Dir.Undergrad.Res.
30. Floruti, Arthur	undergrad.	Fall 2002	Chem495A/B	Dir.Undergrad.Res.
		Win 2003	volunteer	Research
		Spr 2003	Chem495A/B	Dir.Undergrad.Res.
		Sum 2003	volunteer	Dir.Undergrad.Res.
		Fall 2003	Chem495A/B	Dir.Undergrad.Res.
		Win 2004	volunteer	Research
		Spr 2004	Chem495A/B	Dir.Undergrad.Res.
		Sum 2004	Volunteer	Dir.Undergrad.Res.
		Fall 2004	Chem495	Dir.Undergrad.Res.
		Win 2005	volunteer	Research
	graduate	Spr 2005	Chem495	Dir.Undergrad.Res.
		Sum 2005	volunteer	Dir.Undergrad.Res.
		Fall 2005	Chem696A/B	Dir.Grad.Research
		Win 2006	volunteer	Research
		Spr 2005	Chem696A/B	Dir.Grad.Research
		Sum 2006	volunteer	Dir.Grad.Research
		Fall 2006	Chem696A/B	Dir.Grad.Research
		Win 2007	volunteer	Research
		Spr 2007	Chem696A/B	Dir.Grad.Research

		Sum 2007	volunteer	Dir.Grad.Research
31. Blake, Jennifer	graduate	Fall 2002	Chem696A/B	Dir.Grad.Research
32. Wild, Christopher	undergrad.	Fall 2003	Chem495A/B	Dir.Undergrad.Res.
		Win 2004	volunteer	Research
		Spr 2004	Chem495A/B	Dir.Undergrad.Res.
	graduate	Sum 2005	volunteer	Dir.Grad.Research
		Fall 2005	Chem696A/B	Dir.Grad.Research
		Win 2006	volunteer	Research
		Spr 2006	Chem696A/B	Dir.Grad.Research
		Sum 2006	volunteer	Dir.Grad.Research
		Fall 2006	Chem696A/B	Dir.Grad.Research
		Win 2007	volunteer	Research
		Spr 2007	Chem696A/B	Dir.Grad.Research
		Sum 2007	volunteer	Dir.Grad.Research
		Fall 2007	Chem696A/B	Dir.Grad.Research
		Fall 2007	Chem599A	Independent Study
33. Sharma, Rohit	undergrad.	Fall 2003	Chem495A/B	Dir.Undergrad.Res.
34. Mehta, Dutt	undergrad.	Spr 2004	Chem499A/B	Independent Study
		Sum 2004	volunteer	Dir.Undergrad.Res.
		Fall 2004	Chem495	Dir.Undergrad.Res.
		Win 2005	volunteer	Research
		Spr 2005	Chem495	Dir.Undergrad.Res.
35. Rowe, Aaron	graduate	Spr 2004	Chem696A/B	Dir.Grad.Research
		Sum 2004	volunteer	Dir.Grad.Research
		Fall 2004	Chem696	Dir.Grad.Research
		Win 2005	volunteer	Research
		Spr 2005	Chem696A/B	Dir.Grad.Research
		Sum 2005	volunteer	Dir.Grad.Research

36. Carlson, Lewis	graduate	Spr 2004	Chem696A/B	Dir.Grad.Research
		Sum 2004	volunteer	Dir.Grad.Research
		Fall 2004	Chem696A/B	Dir.Grad.Research
		Win 2005	volunteer	Research
		Spr 2005	Chem696A/B	Dir.Grad.Research
		Sum 2005	volunteer	Dir.Grad.Research
		Fall 2005	volunteer	Dir.Grad.Research
		Win 2006	volunteer	Research
		Spr 2006	Chem696A/B	Dir.Grad.Research
		Sum 2006	Volunteer	Dir.Grad.Research
		Fall 2006	Chem696A/B	Dir.Grad.Research
		Win 2007	volunteer	Research
		Spr 2007	Chem696A/B	Dir.Grad.Research
		Sum 2007	volunteer	Dir.Grad.Research
		Fall 2007	Chem696A/B	Dir.Grad.Research
		Win 2008	volunteer	Research
		Spr 2008	Chem696A/B	Dir.Grad.Research
		Sum 2008	volunteer	Dir.Grad.Research
		Fall 2008	Chem696A/B	Dir.Grad.Research
		Win 2009	volunteer	Research
		Spr 2009	Chem696A/B	Dir.Grad.Research
		Sum 2009	volunteer	Dir.Grad.Research
		Fall 2009	Chem698A/B	Thesis Seminar
		Win 2010	volunteer	Research
		Spr 2010	Chem696B	Dir.Grad.Research
		Sum 2010	volunteer	Dir.Grad.Research
		Fall 2010	volunteer	Dir.Grad.Research
		Win 2011	volunteer	Research
		Spr 2011	volunteer	Dir.Grad.Research
		Sum 2011	volunteer	Dir.Grad.Research
		Fall 2011	volunteer	Dir.Grad.Research

37. Terzian, Angela	undergrad.	Fall 2004	Chem495	Dir.Undergrad.Res.
38. Hirakawa, Yasuko	undergrad.	Spr 2005	Chem495	Dir.Undergrad.Res.
39. Devletyan, Lusine	undergrad.	Spr 2005	Chem495	Dir.Undergrad.Res.
		Sum 2005	volunteer	Dir.Undergrad.Res.
		Fall 2005	Chem495	Dir.Undergrad.Res.
		Win 2006	volunteer	Research
		Spr 2006	Chem495	Dir.Undergrad.Res.
		Sum 2006	volunteer	Dir.Undergrad.Res.
		Fall 2006	Chem495	Dir.Undergrad.Res.
		Win 2007	volunteer	Research
		Spr 2007	Chem495	Dir.Undergrad.Res.
40. Nezami, Nino	undergrad.	Spr 2005	Chem495	Dir.Undergrad.Res.
		Sum 2005	volunteer	Dir.Undergrad.Res.
		Fall 2005	Chem495	Dir.Undergrad.Res.
		Win 2006	volunteer	Research
		Spr 2006	Chem495	Dir.Undergrad.Res.
41. Mikaelian, Paul	undergrad.	Sum 2006	volunteer	Dir.Undergrad.Res.
		Fall 2006	Chem495	Dir.Undergrad.Res.
		Win 2007	volunteer	Research
		Spr 2007	Chem495	Dir.Undergrad.Res.
		Sum 2007	volunteer	Dir.Undergrad.Res.
		Fall 2007	Chem495	Dir.Undergrad.Res.
		Win 2008	volunteer	Research
		Spr 2008	Chem495A/B	Dir.Undergrad.Res.
		Sum 2008	volunteer	Dir.Undergrad.Res.
42. Stancu, Keith	undergrad.	Sum 2006	volunteer	Dir.Undergrad.Res.

43. Babakhanian, Anashe	undergrad.	Sum 2006	volunteer	Dir.Undergrad.Res.
		Fall 2006	Chem495	Dir.Undergrad.Res.
44. Bulba, Natali	undergrad.	Spr 2007	Chem495	Dir.Undergrad.Res.
45. Sepanian, Ruth	undergrad.	Spr 2007	volunteer	Dir.Undergrad.Res.
		Sum 2007	volunteer	Dir.Undergrad.Res.
		Fall 2007	Chem495	Dir.Undergrad.Res.
		Win 2008	volunteer	Research
		Spr 2008	CHEM495	Dir.Undergrad.Res.
		Sum 2008	volunteer	Dir.Undergrad.Res.
		Fall 2008	Chem495	Dir.Undergrad.Res.
		Win 2009	volunteer	Research
		Spr 2009	Chem495	Dir.Undergrad.Res.
		Sum 2009	volunteer	Dir.Grad.Research
	graduate	Fall 2009	Chem696B	Dir.Grad.Research
		Win 2010	volunteer	Research
		Spr 1010	Chem696A/B	Dir.Grad.Research
46. Spenser, Ryan	graduate	Fall 2007	volunteer	Dir.Grad.Research
		Win 2008	volunteer	Research
		Spr 2008	Chem696A/B	Dir.Grad.Research
		Sum 2008	volunteer	Dir.Grad.Research
		Fall 2008	Chem696B	Dir.Grad.Research
		Win 2009	volunteer	Research
		Spr 2009	Chem696A/B	Dir.Grad.Research
		Sum 2009	volunteer	Dir.Grad.Research
		Fall 2009	Chem696A/B	Dir.Grad.Research
		Fall 2009	Chem698A/B	Thesis Seminar
		Win 2010	volunteer	Research
		Spr 2010	Chem696A/B	Dir.Grad.Research
		Spr 2010	Chem698A/B	Thesis Seminar

47. Molnar, Justin	undergrad.	Spr 2008	Chem499A/B	Independent Study
		Sum 2008	volunteer	Dir.Undergrad.Res.
		Fall 2008	Chem495A/B	Dir.Undergrad.Res.
		Win 2009	volunteer	Research
		Spr 2009	Chem495A/B	Dir.Undergrad.Res.
		Sum 2009	volunteer	Dir.Undergrad.Res.
48. Voorhees, Erin	undergrad.	Sum 2008	volunteer	Dir.Undergrad.Res.
		Fall 2008	Chem495A/B	Dir.Undergrad.Res.
		Win 2009	volunteer	Research
		Spr 2009	Chem495A/B	Dir.Undergrad.Res.
		Sum 2009	volunteer	Dir.Undergrad.Res.
		Fall 2009	Chem495A/B	Dir.Undergrad.Res.
		Win 2010	volunteer	Research
		Spr 2010	Chem495A/B	Dir.Undergrad.Res.
		Sum 2010	volunteer	Independent Study
		Fall 2010	Chem696A/B	Dir.Grad.Research
	graduate	Win 2011	volunteer	Research
		Spr 2011	Chem696C	Dir.Grad.Research
		Sum 2011	volunteer	Independent Study
		Fall 2011	Chem696A/B	Dir.Grad.Research
		Win 2012	volunteer	Research
		Spr 2012	Chem696A/B	Dir.Grad.Research
		Sum 2011	volunteer	Independent Study
		Fall 2012	Chem696A/B/C	Dir.Grad.Research
		Win 2013	volunteer	Research
		Spr 2013	Chem698A/B	Thesis Project
		Spr 2013	Chem692	Thesis Seminar
49. Shahmirian, Sarine	11 th grader	Fall 2008	volunteer	Dir.Undergrad.Res.
		Win 2009	volunteer	Research
		Spr 2009	volunteer	Dir.Undergrad.Res.

50. Abedi, Edwin	undergrad.	Fall 2008	volunteer	Dir.Undergrad.Res.
		Win 2009	volunteer	Research
		Spr 2009	Chem495A/B	Dir.Undergrad.Res.
		Sum 2009	volunteer	Dir.Undergrad.Res.
		Fall 2009	Chem495A/B	Dir.Undergrad.Res.
		Win 2010	volunteer	Research
		Spr 2010	Chem495A/B	Dir.Undergrad.Res.
		Sum 2010	volunteer	Independent Study
		Fall 2010	Chem495A/B	Dir.Undergrad.Res.
51. Goldstein, Gordon	undergrad.	Spr 2009	volunteer	Independent Study
		Sum 2009	volunteer	Independent Study
		Fall 2009	Chem495A/B	Dir.Undergrad.Res.
52. Pilosyan, Tatevik	undergrad.	Spr 2009	volunteer	Independent Study
		Sum 2009	volunteer	Independent Study
53. Gaussii, Kamran	undergrad.	Fall 2009	Chem499A/B	Independent Study
		Win 2010	volunteer	Research
		Spr 2010	Chem495A/B	Dir.Undergrad.Res.
54. Harutyunyan, Stepan	undergrad.	Fall 2009	Chem499A/B	Independent Study
		Win 2010	volunteer	Research
		Spr 2010	Chem495A/B	Dir.Undergrad.Res.
		Sum 2010	volunteer	Independent Study
		Fall 2010	Chem495A/B	Dir.Undergrad.Res.
		Win 2011	volunteer	Research
		Spr 2011	Chem495A/B	Dir.Undergrad.Res.
		Sum 2011	volunteer	Independent Study
55. Rivas, Bianca	undergrad.	Fall 2009	Chem499A/B	Independent Study
		Win 2010	volunteer	Research
		Spr 2010	Chem495A/B	Dir.Undergrad.Res.
		Sum 2010	volunteer	Independent Study

		Fall 2010	Chem495A/B	Dir.Undergrad.Res.
		Win 2011	volunteer	Research
		Spr 2011	Chem495A/B	Dir.Undergrad.Res.
		Sum 2011	volunteer	Independent Study
		Fall 2011	Chem495A/B	Dir.Undergrad.Res.
		Win 2012	volunteer	Research
		Spr 2012	Chem495A/B	Dir.Undergrad.Res.
56. Enos, Michael	undergrad.	Spr 2010	Chem499A/B	Independent Study
57. Dykhne, Marina	undergrad.	Spr 2010	CHEM499B	Independent Study
58. Garrison, McKinzie	undergrad.	Spr 2011	CHEM499A/B	Independent Study
		Sum 2011	volunteer	Independent Study
		Fall 2011	Chem495A/B	Dir.Undergrad.Res.
		Win 2012	volunteer	Research
		Spr 2012	Chem495A/B	Dir.Undergrad.Res.
		Sum 2012	volunteer	Independent Study
59. Darabidian, Vahe	graduate	Spr 2011	Chem696A/B/C	Dir.Grad.Research
		Sum 2011	volunteer	Independent Study
		Fall 2011	Chem696A/B	Dir.Grad.Research
		Win 2012	volunteer	Research
		Spr 2012	Chem696A/B	Dir.Grad.Research
		Spr 2012	Chem691	Literature Seminar
		Sum 2012	volunteer	Independent Study
		Fall 2012	Chem696A/B	Dir.Grad.Research
		Win 2013	volunteer	Research
		Spr 2013	Chem696A	Dir.Grad.Research
		Spr 2013	Chem698A/B	Thesis Project
		Spr 2013	Chem692	Thesis Seminar
60. Meron, Deborah	undergrad.	Spr 2011	Chem495A/B	Independent Study

		Sum 2011	volunteer	Independent Study
		Fall 2011	Chem495A/B	Independent Study
		Win 2012	volunteer	Research
61. Margossian, Khatcher	undergrad.	Sum 2011	volunteer	Independent Study
62. Hughes, Rhoda	graduate	Fall 2011	Chem696A/B	Dir.Grad.Research
		Win 2012	volunteer	Research
		Spr 2012	Chem696A/B	Dir.Grad.Research
		Sum 2012	volunteer	Independent Study
		Fall 2012	volunteer	Dir.Grad.Research
		Win 2013	volunteer	Research
		Spr 2013	volunteer	Dir.Grad.Research
		Spr 2013	Chem691	Literature Seminar
		Sum 2013	volunteer	Independent Study
		Fall 2013	Chem696A/B	Dir.Grad.Research
		Fall 2013	Chem698A/B	Thesis Project
		Fall 2013	Chem692	Thesis Seminar
63. Veisman, Melanie	undergrad.	Win 2012	volunteer	Research
		Spr 2012	CHEM499A/B	Independent Study
64. Diaz, Ivonne	undergrad.	Spr 2012	CHEM499A/B	Independent Study
65. Duncan, Kellianne	undergrad.	Spr 2012	CHEM499A/B	Independent Study
		Sum 2012	volunteer	Independent Study
		Fall 2012	Chem495A	Dir.Undergrad.Res.
		Win 2013	volunteer	Independent Study
		Spr 2013	Chem495A/B	Dir.Undergrad.Res.
		Sum 2013	volunteer	Independent Study
		Fall 2013	Chem495A/B	Dir.Undergrad.Res.

66. Nagasawa, Kelly	undergrad.	Spr 2012	CHEM499A/B	Independent Study
67. Sahakyan, Nare	undergrad.	Spr 2012	CHEM499A/B	Independent Study
		Sum 2012	volunteer	Independent Study
		Fall 2012	Chem495A	Dir.Undergrad.Res.
		Win 2013	volunteer	Independent Study
		Spr 2013	Chem495A/B	Dir.Undergrad.Res.
		Sum 2013	volunteer	Independent Study
68. Anker, Bryan	undergrad.	Fall 2012	Chem495A/B	Dir.Undergrad.Res.
		Win 2013	volunteer	Independent Study
		Spr 2013	volunteer	Dir.Undergrad.Res.
		Sum 2013	volunteer	Independent Study
		Fall 2013	Chem495A/B	Dir.Undergrad.Res.
		Win 2014	volunteer	Independent Study
		Spr 2014	Chem495A/B	Dir.Undergrad.Res.
		Sum 2014	volunteer	Independent Study
69. Bergal, Jack	undergrad.	Fall 2012	Chem499A/B	Independent Study
70. Hariri, Sharona	undergrad.	Spr 2013	Chem495A/B	Dir.Undergrad.Res.
		Sum 2013	volunteer	Independent Study
		Fall 2013	Chem495A/B	Dir.Undergrad.Res.
71. Graft, Walker	undergrad.	Sum 2013	volunteer	Independent Study
		Fall 2013	Chem495A/B	Dir.Undergrad.Res.
72. Davis, Ryan	undergrad.	Fall 2013	Chem495A/B	Dir.Undergrad.Res.
		Win 2014	volunteer	Research
		Spr 2014	Chem495A/B	Dir.Undergrad.Res.
		Sum 2014	volunteer	Research
		Fall 2014	Chem495A/B	Dir.Undergrad.Res.
		Win 2015	volunteer	Research

		Spr 2015	Chem495A/B	Dir.Undergrad.Res.
		Sum 2015	volunteer	Research
		Fall 2015	Chem495A/B	Dir.Undergrad.Res.
73. Cappuccino, Samantha	undergrad.	Fall 2013	volunteer	Dir.Undergrad.Res.
		Win 2014	volunteer	Research
		Spr 2014	Chem495A/B	Dir.Undergrad.Res.
		Sum 2014	volunteer	Research
		Fall 2014	Chem495A/B	Dir.Undergrad.Res.
		Win 2015	volunteer	Research
		Spr 2015	Chem495A/B	Dir.Undergrad.Res.
		Sum 2015	volunteer	Research
		Fall 2015	volunteer	Research
74. Tosunyan, Osanna	undergrad.	Spr 2014	CHEM499	Independent Study
75. George, Devin	undergrad	Spr 2014	volunteer	Research
76. Halajian, Armen	undergrad.	Spr 2014	volunteer	Research
		Sum 2014	volunteer	Research
		Fall 2014	Chem495A/B	Dir.Undergrad.Res.
77. Philippas, Elenie	undergrad.	Spr 2014	volunteer	Research
		Sum 2014	volunteer	Research
		Fall 2014	Chem495A/B	Dir.Undergrad.Res.
		Win 2015	volunteer	Research
		Spr 2015	Chem495A/B	Dir.Undergrad.Res.
		Sum 2015	volunteer	Research
		Fall 2015	Chem495A/B	Dir.Undergrad.Res.
78. Mousselli, Michael	undergrad.	Sum 2014	volunteer	Research
		Fall 2014	Chem495A	Dir.Undergrad.Res.

		Win 2015	volunteer	Research
		Spr 2015	volunteer	Research
		Sum 2015	volunteer	Research
79. Nazarian, Armen	undergrad.	Fall 2014	volunteer	Research
		Win 2015	volunteer	Research
80. Smothermon, Cody	undergrad.	Fall 2014	volunteer	Research
		Win 2015	volunteer	Research
		Spr 2015	Chem495A/B	Dir.Undergrad.Res.
81. Gabriel, Henry	undergrad.	Spr 2015	Chem495A/B	Dir.Undergrad.Res.
		Sum 2015	volunteer	Research
		Fall 2015	Chem495A/B	Dir.Undergrad.Res.
82. Hansen, Justin	undergrad.	Spr 2015	Chem495A/B	Dir.Undergrad.Res.
		Sum 2015	volunteer	Research
83. Jensen, Jennifer	graduate	Spr 2015	FSC696A/B	Dir.Grad.Research
		Sum 2015	volunteer	Research
		Fall 2015	FSC696A/B	Dir.Grad.Research
84. Guarina, Shannen	undergrad.	Fall 2015	Chem495A/B	Dir.Undergrad.Res.