
CYNTHIA J. FINELLI
CURRICULUM VITA

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ACADEMIC APPOINTMENTS

Positions at University of Michigan

- Faculty appointments
 - Associate Professor, Electrical Engineering and Computer Engineering. Sep 2015 – present.
 - Associate Professor, Education (courtesy appointment). Sep 2016 – present
 - Research Associate Professor, Education. Mar 2015 – Aug 2016.
 - Research Associate Professor, Engineering Education (20% appointment). Sep 2010 – Aug 2015.
 - Associate Research Scientist, Engineering Education (20% appointment). Sep 2004 – Aug 2010.
- Administrative appointments
 - Director, Engineering Education Research Program, College of Engineering. Sep 2016 – present.
 - Faculty Director, Engineering Education Research, Center for Research on Learning and Teaching in Engineering (CRLT-Engin, formerly CRLT North). Sep 2015 – Aug 2016.
 - Founding Director, CRLT-Engin. Nov 2003 – Aug 2015.
 - Coordinator of Engineering Education, CRLT. Apr 2003 – Oct 2003.

Positions at Kettering University (formerly GMI Engineering & Management Institute)

- Faculty appointments
 - Richard L. Terrell Professor for Excellence in Teaching. Dec 2002 – Jul 2003.
 - Associate Professor, Electrical Engineering. Jul 1996 – Jul 2003.
 - Assistant Professor, Electrical Engineering. Jan 1993 – Jun 1996.
 - Instructor, Electrical Engineering. Sep 1992 – Dec 1992.
- Administrative appointments
 - Founding Director, Center for Excellence in Teaching and Learning. Apr 2000 – Jul 2003.

EDUCATION

- Ph.D., Electrical Engineering: Systems. University of Michigan, Ann Arbor, MI. May 1993.
Doctoral thesis: *A signal modeling method for analysis of cardiac arrhythmia in intraventricular electrograms.*
- M.S.E., Electrical Engineering: Systems. University of Michigan, Ann Arbor, MI. Dec 1989.
(Optional) Master's thesis: *Effect of sympathetic tone on ventricular electrogram morphology.*
- B.S.E., Electrical Engineering. University of Michigan, Ann Arbor, MI. Aug 1988.

AWARDS AND HONORS (LISTED IN REVERSE CHRONOLOGICAL ORDER)

1. Frontiers of Engineering Education Member, National Academy of Engineering, 2016.
2. Ben Dasher Award, for the Special Session *Agents for STEM Change – Articulating the goals of our community* at the 2014 ASEE/IEEE Frontiers in Education Conference. Oct 2015.
3. Best Paper in the Educational Research and Methods Division Award, American Society of Engineering Education, for the paper *Making value for faculty: Learning communities in engineering faculty development* at the 2015 ASEE Annual Conference & Exposition. Jun 2015.
4. Ronald J. Schmitz Award for Meritorious Service to the IEEE/ASEE Frontiers in Education Conference. Oct 2014.
5. Campus Representative Award for Most New Professional Members in North Central Section, American Society of Engineering Education. Jun 2014.
6. Campus Representative Award for Highest Percentage of Faculty Membership in North Central Section, American Society of Engineering Education. Jun 2014.
7. Academy of Fellows Membership, American Society of Engineering Education. Apr 2013.
8. Maryellen Weimer Scholarly Work on Teaching and Learning Award, for the paper *The Comprehensive Assessment of Team Member Effectiveness: Development of a behaviorally anchored rating scale for self and peer evaluation*. Jun 2013.
9. National Effective Teaching Institute Fellow. 2012 – 2013.
10. Faculty Recognition Award for Outstanding Mentorship, University of Michigan Undergraduate Research Opportunity Program. Apr 2012.
11. Distinguished Service Award, American Society of Engineering Education – Educational Research and Methods Division. Oct 2010.
12. Best Paper in the Professional Interest Council V Award, American Society of Engineering Education, for the paper *Preparing for participation in SPEED: An ASEE initiative for a nationally recognized development program for engineering educator* at the 2010 ASEE Annual Conference & Exposition. Jun 2010.
13. Premier Award for Engineering Education Courseware, for the software *Comprehensive Assessment of Team Member Effectiveness (CATME) Instrument* (www.catme.org). Jun 2009.
14. Best Paper in the Educational Research and Methods Division Award, American Society of Engineering Education, for the paper *Students' perceptions of both the certainty and the deterrent effect of potential consequences of cheating* at the 2003 ASEE Annual Conference & Exposition. Jun 2003.
15. Faculty Appreciation Award, Sigma Chi Fraternity at Kettering University. 1996, 1998, 1999, 2001.
16. Honorary Member Status, Robot Society at Kettering University. Dec 2000.
17. Outstanding Chapter Advisor of the Year for service to Theta Phi Alpha sorority, Kettering University. Jun 1998 and Jun 1999.
18. Outstanding Teacher of the Year, Kettering University Alumni Association (formerly GMI Engineering & Management Institute). Jun 1997.
19. Faculty of the Month, GMI Greek Student Assembly. May 1995.
20. Member, Tau Beta Pi (engineering honor society). Inducted 1986.
21. Member, Eta Kappa Nu (electrical engineering honor society). Inducted 1985.

PRESENTATIONS AND PUBLICATIONS

Invited keynote addresses (listed in reverse chronological order)

1. **Finelli, C. J.** (2015). *Promoting institutional change and improving teaching practices*. Keynote address at Annual Scholarship of Learning and Teaching Conference for Faculty of Science and Technology, Uppsala University, Stockholm, Sweden. 03/18/15.
2. **Finelli, C. J.** (2014). *Educating ethical engineers* (2014). Keynote address at European Regional CDIO (Conceive, Design, Implement, and Operate) Meeting, Gothenburg, Sweden. 01/16/14.
3. **Finelli, C. J.** (2014). *Evidence-based teaching practices: Bridging the research-to-practice gap*. Keynote address at Annual Conference on Learning and Teaching, Chalmers University, Gothenburg, Sweden. 01/15/14.

Refereed journal articles (student co-authors underlined, postdoctoral fellow co-authors double underlined)

1. **Finelli, C. J.**, Nguyen, K. A., DeMonbrun, R. M., Borrego, M., Prince, M. J., Henderson, C., Shekhar, P., Waters, C. K., & Husman, J. Reducing student resistance to active learning: Strategies for instructors. *Journal of College Science Teaching*. Manuscript submitted 03/24/17.
2. Shekhar, P., Prince, M. J., **Finelli, C. J.**, DeMonbrun, R. M., & Waters, C. K. (2017). *Integrating quantitative and qualitative research methods to examine student resistance to active learning*. Manuscript submitted to European Journal of Engineering Education. 09/20/16.
3. DeMonbrun, R. M., **Finelli, C. J.**, Prince, M. J., Borrego, M., Shekhar, P., Henderson, C., & Waters, C. K. (2017). Creating an instrument to measure student response to instructional practices. *Journal of Engineering Education*, 106(2), 273-298.
4. Nguyen, K. A., Husman, J., Borrego, M., Shekhar, P., Prince, M. J., DeMonbrun, R. M., **Finelli, C. J.**, Henderson, C., & Waters, C. K. (2017). Students' expectations, types of instruction, and instructor strategies predicting student response to active learning. *International Journal of Engineering Education*, 33(1A), 2-18.
5. **Finelli, C. J.**, Borrego, M., & Rasoulifar, G. Special Report: Development of a taxonomy of keywords for engineering education research. Special joint publication appearing simultaneously in five journals as:
 - (2015, Oct). *Journal of Engineering Education*, 104(4), 365-387. doi 10.1002/jee.20101.
 - (2015, Nov). *IEEE Transactions on Education*, 58(4), 219-241. doi 10.1002/jee.20101
 - (2016, Jan/Feb). *International Journal of Engineering Education*, 32(1A), 2-18.
 - (2016, Feb). *Australasian Journal of Engineering Education*, 21(1), 1-16. doi 10.1080/22054952.2015.1133215
 - (2016). *European Journal of Engineering Education*, 41(3), 231-215. doi 10.1080/03043797.2016.1153045
6. Shekhar, P., DeMonbrun, R. M., Borrego, M., **Finelli, C. J.**, Prince, M. J., Henderson, C., & Waters, C. K. (2015, Mar/Apr). Development of an observation protocol to study undergraduate engineering student resistance to active learning. *International Journal of Engineering Education*, 31(2), 597-609. EID: 2-s2.0-84924985490
7. **Finelli, C. J.**, Daly, S. R., & Richardson, K. M. (2014, Apr). Bridging the research-to-practice gap: Designing an institutional change plan using local evidence. *Journal of Engineering Education – Special Issue on the Complexities of Transforming Engineering Higher Education*, 103(2), 331-361. doi: 10.1002/jee.20042

8. Carpenter, D. C., Harding, T. S., Sutkus, J. A., & **Finelli, C. J.** (2014, Oct). Assessing the ethical development of Civil Engineering undergraduates in support of the ASCE Body of Knowledge. *Journal of Professional Issues in Engineering Education and Practice*, 140(4), 1-10. doi: 10.1061/(ASCE)EI.1943-5541.0000177
9. Burt, B. A., Carpenter, D. D., Holsapple, M. A., **Finelli, C. J.**, Bielby, R. M., Sutkus, J. A., & Harding, T. S. (2013, May/June). Out-of-classroom experiences: Bridging the disconnect between the classroom, the engineering workforce, and ethical development. *International Journal of Engineering Education*, 29(3). 714-725. EID: 2-s2.0-84878328465
10. Ohland, M. W., Loughry, M. L., Woehr, D. J., **Finelli, C. J.**, Bullard, L. G., Felder, R. M., Layton, R. A., Pomeranz, H. R., & Schmucker, D. G. (2012, Dec). The Comprehensive Assessment of Team Member Effectiveness: Development of a behaviorally anchored rating scale for self and peer evaluation. *Academy of Management Learning & Education*, 11(4), 609-630. doi: 10.5465/amle.2010.0177
Winner of the 2013 Maryellen Weimer Scholarly Work on Teaching and Learning Award
11. **Finelli, C. J.**, Holsapple, M. A., Ra, E., Bielby, R. M., Burt, B. A., Carpenter, D. D., Harding, T. S., & Sutkus, J. A. (2012, Jul). An assessment of engineering students' curricular and co-curricular experiences and their ethical development. *Journal of Engineering Education*, 101(3), 469-494. doi: 10.1002/j.2168-9830.2012.tb00058.x
12. Harding, T. S., Carpenter, D. D., & **Finelli, C. J.** (2012, Apr). An exploratory investigation of the ethical behavior of engineering undergraduates. *Journal of Engineering Education*, 101(2), 346-374. doi: 10.1002/j.2168-9830.2012.tb00053.x
13. Holsapple, M. A., Carpenter, D. D., Sutkus, J. A., **Finelli, C. J.**, & Harding, T. S. (2012, Apr). Framing faculty and student discrepancies in engineering ethics education delivery. *Journal of Engineering Education*, 101(2), 169-186. doi: 10.1002/j.2168-9830.2012.tb00047.x
14. Wright, M. C., **Finelli, C. J.**, & Meizlish, D. S. (2011). Facilitating the Scholarship of Teaching and Learning at a research university. *Change: The Magazine of Higher Learning*, 43(2), 50-56. doi: 10.1080/00091383.2011.550255
15. Carpenter, D. D., Harding, T. S., & **Finelli, C. J.** (2010, Sep/Oct). Using research to identify academic dishonesty deterrents among engineering undergraduates. *International Journal of Engineering Education*, 26(5), 1156-1165. EID: 2-s2.0-78649365298
16. **Finelli, C. J.**, Wright, M. C., & Pinder-Grover, T. (2010). Consulting the Delphi: A new idea for collecting student feedback through the Two-Survey Method. *Journal of Faculty Development*, 24(2). 25-33.
17. Mesa, V. M., Jaquette, O., & **Finelli, C. J.** (2009). Measuring the impact of an individual course on students' success. *Journal of Engineering Education*, 98(4), 349-359. doi: 10.1002/j.2168-9830.2009.tb01032.x
18. Mayhew, M. J., Hubbard, S. M., **Finelli, C. J.**, Harding, T. S., & Carpenter, D. D. (2009, Summer). Using structural equation modeling to validate the Theory of Planned behavior as a model for predicting student cheating. *Review of Higher Education*, 32(4), 441-468. doi: 10.1353/rhe.0.0080
19. **Finelli, C. J.**, Ott, M., Gottfried, A. C., Hershock, C., O'Neal, C. M., & Kaplan, M. L. (2008, Oct). Utilizing instructional consultations to enhance the teaching performance of engineering faculty. *Journal of Engineering Education*, 97(4), 397-411. doi: 10.1002/j.2168-9830.2008.tb00989.x
20. Harding, T. S., Mayhew, M. J., **Finelli, C. J.**, & Carpenter, D. D. (2007, Sep). The Theory of Planned Behavior as a model of academic dishonesty in humanities and engineering undergraduates. *Ethics and Behavior*, 17(3), 255-279. doi: 10.1080/10508420701519239
21. Davis, C.-S. G., & **Finelli, C. J.** (2007, Fall). Diversity and retention in engineering. In M. L. Kaplan & A. T. Miller (Eds.), *The Scholarship of Multicultural Teaching and Learning. New Directions for Teaching and Learning*, 111 (pp. 63-71). San Francisco: Jossey-Bass. doi: 10.1002/tl.287

22. Passow, H. J., Mayhew, M. J., Finelli, C. J., Harding, T. S., & Carpenter, D. D. (2006, Sep). Factors influencing engineering students' decisions to cheat by type of assessment. *Research in Higher Education*, 47(7), 643-684. doi: 10.1007/s11162-006-9010-y
23. Carpenter, D. D., Harding, T. S., **Finelli, C. J.**, Montgomery, S. M., & Passow, H. J. (2006, Jul). Engineering students' perceptions of and attitudes towards cheating. *Journal of Engineering Education*, 95(3), 181-194. doi: 10.1002/j.2168-9830.2006.tb00891.x
24. Harding, T. S., Carpenter, D. D., **Finelli, C. J.**, & Passow, H. J. (2004, Jun). Does academic dishonesty relate to unethical behavior in professional practice? An exploratory study. *Science and Engineering Ethics*, 10, 311-324. doi: 10.1007/s11948-004-0027-3
25. **Finelli, C. J.**, Klinger, A., & Budny, D. D. (2001, Oct). Strategies for improving the classroom environment. *Journal of Engineering Education*, 90(4), 491-498. doi: 10.1002/j.2168-9830.2001.tb00630.x
26. **Finelli, C. J.**, & Wicks, M. A. (2000, May). An instrument for assessing the effectiveness of the circuits curriculum in an electrical engineering program. *IEEE Transactions on Education*, 43(2), 137-142. doi: 10.1109/13.848065
27. **Finelli, C. J.** (1996, Aug). The time-sequenced adaptive filter for analysis of cardiac arrhythmias in intraventricular electrograms. *IEEE Transactions on Biomedical Engineering*, 43(8), 811-819. doi: 10.1109/10.508543
28. **Finelli, C. J.**, DiCarlo, L. A., Jenkins, J. M., Winston, S. A., & Li, P. (1991, Nov 15). Effects of increased heart rate and sympathetic tone on intraventricular electrogram morphology. *American Journal of Cardiology*, 68, 1321-1328. doi: 10.1016/0002-9149(91)90239-H
29. Throne, R. D., Jenkins, J. M., Winston, S. A., **Finelli, C. J.**, & DiCarlo, L. A. (1989, Oct). Discrimination of retrograde from anterograde atrial activation using intracardiac electrogram waveform analysis. *Pacing and Clinical Electrophysiology*, 12(10), 1622-1630. doi: 10.1111/j.1540-8159.1989.tb01841.x

Book chapters

1. Harding, T. S., **Finelli, C. J.**, & Carpenter, D. D. (2016). Academic dishonesty among engineering undergraduates in the United States. In D. Velliaris (Ed.), *Handbook of Research on Academic Misconduct in Higher Education*. pp. 160-181. Hershey, PA: IGI Global. doi: 10.4018/978-1-5225-1610-1
2. **Finelli, C. J.**, Pinder-Grover, T., & Wright, M. C. (2011). Consultations on teaching. Using student feedback for instructional improvement. In C. E. Cook & M. L. Kaplan (Eds.), *Advancing the culture of teaching at a research university: How a teaching center can make a difference*. pp 65-79. Sterling, VA: Stylus Publishing.

Editorials, reports, and invited essays

1. Oakley, B., & **Finelli, C. J.** (2014, May). Guest Editorial: A practical approach to understanding—and applying!—the scholarship of application. *IEEE Transactions on Education*, 57(2), 69-74. doi: 10.1109/TE.2014.2313036
2. **Finelli, C. J.** (2008, Nov). A way to enhance teaching. Invited essay for Journal of Engineering Selects series. *ASEE Prism Magazine*, 61.
3. Lord, S. M., & **Finelli, C. J.** (2010, Jul/Aug). Guest Editorial. *International Journal of Engineering Education*, 26(4), 746-747. EID: 2-s2.0-77956450027

Refereed conference or symposium proceedings (student co-authors underlined, postdoctoral fellow co-authors double underlined)

1. Nguyen, K. A., DeMonbrun, R. M., Borrego, M., Husman, J., Prince, M. J., **Finelli, C. J.**, Shekhar, P., Henderson, C., & Waters, C. K. (2017, July). The tensions measuring instructional practices. *Proceedings of the 2017 International Research in Engineering Education Symposium*, Bogota, Columbia.
2. Johnson, A. W., & **Finelli, C. J.** (2017, June). Responsive teaching in undergraduate engineering courses. *Proceedings of the 2017 ASEE Annual Conference & Exposition*, Columbus, OH.
3. Nguyen, K. A., DeMonbrun, R. M., Borrego, M., Prince, M. J. Husman, J., **Finelli, C. J.**, Shekhar, P., Henderson, C., & Waters, C. K. (2017, June). The variation of nontraditional teaching methods across 17 undergraduate engineering classrooms. *Proceedings of the 2017 ASEE Annual Conference & Exposition*, Columbus, OH.
4. Kerst, J., Pfershy, H., DeMonbrun, R. M., & **Finelli, C. J.** (2017, June). Long-term impact of faculty development program on student evaluations of teaching. *Proceedings of the 2017 ASEE Annual Conference & Exposition*, Columbus, OH.
5. **Finelli, C. J.**, & Johnson, A. W. (2017, April). Work in Progress: Flipping the circuits classroom: The impact of pre-class reading and in-class active learning on student and instructor. *Proceedings of the 2017 IEEE EDUCON Conference*, Athens, Greece.
6. Nguyen, K. A., Husman, J. E., Borrego, M. J., Shekhar, P., Prince, M. J., DeMonbrun, R. M., **Finelli, C. J.**, & Waters, C. K. (2017, April). Students' expectations, types of instruction, and instructor strategies: Predicting student response to active learning. *Proceedings of the 2017 Annual Meeting of the American Educational Research Association*, Austin, TX.
7. Waters, C. K., Nguyen, K. A., Shekhar, P., Borrego, M., Prince, M. J., **Finelli, C. J.**, DeMonbrun, R. M., & Henderson, C. (2017, March). Implementation and faculty reflection of an instrument to measure student response to instructional practices. *Proceedings of the 2017 American Society of Engineering Education Zone II Conference*, San Juan, Puerto Rico.
8. Borrego, M. J., Besterfield-Sacre, M. E., **Finelli, C. J.**, Lattuca, L. R., & Shekhar, P. (2016, Jun). Recommended practices for managing large, multi-site engineering education research data collection projects. *Proceedings of 2016 ASEE Annual Conference & Exposition*, New Orleans, LA.
9. Nguyen, K. A., Borrego, M. J., **Finelli, C. J.**, Shekhar, P., DeMonbrun, R. M., Henderson, C., Prince, M. J., & Waters, C. K. (2016, Jun). Measuring student response to instructional practices (StRIP) in traditional and active classrooms. *Proceedings of 2016 ASEE Annual Conference & Exposition*, New Orleans, LA.
10. Steiner, A., Hirshfield, L., **Finelli, C. J.**, & Chachra, D. (2016, Jun). Investigating task choice in first-year engineering team projects. *Proceedings of 2016 ASEE Annual Conference & Exposition*, New Orleans, LA.
11. **Finelli, C. J.**, Froyd, J. E., & Shuman, L. J. (2016, Jun). Innovation through propagation: Learning in and out of the classroom. *Proceedings of 2016 ASEE Annual Conference & Exposition*, New Orleans, LA.
12. **Finelli, C. J.** (2016, Apr). The Teaching Circle: Successfully promoting faculty adoption of evidence-based teaching practices. *Proceedings of the American Association for the Advancement of Science (AAAS)'s Conference "Envisioning the Future of Undergraduate STEM Education: Research and Practice,"* Washington, DC.
13. Pinder-Grover, T. A., **Finelli, C. J.**, Millunchick, J. M., & Moldwin, M. (2015). *A faculty learning community to prompt critical reflection and improve practice*. 2015 POD Network Conference, San Francisco, CA.
14. Harding, T. H., Sutkus, J. A., Carpenter, D. D., & **Finelli, C. J.** (2015, Oct). SEED-PA. A practical instrument for assessing individual ethics initiatives. *Proceedings of 45th IEEE/ASEE Frontiers in Education Conference*, El Paso, TX. doi: 10.1109/FIE.2015.7344290.

15. Shekhar, P., Borrego, M., **Finelli, C. J.**, Prince, M. J., DeMonbrun, R. M., Waters, C. K., & Henderson, C. (2015, Jul). A mixed-method study to understand student resistance to active learning. *Proceedings of 2015 International Research in Engineering Education Symposium*, Dublin, Ireland.
16. Hirshfield, L. J., Chachra, D., & **Finelli, C. J.** (2015, Jul). Structuring team projects to improve engineering self-efficacy. *Proceedings of 2015 International Research in Engineering Education Symposium*, Dublin, Ireland.
17. Carpenter, D. D., Sutkus, J. A., **Finelli, C. J.**, Harding, T. S., & Harris, R. (2015, Jun). Assessing the ethical development of students in an undergraduate Civil Engineering course using a standardized instrument. *Proceedings of 2015 ASEE Annual Conference & Exposition*, Seattle, WA.
18. DeMonbrun, R. M., **Finelli, C. J.**, & Shekhar, P. (2015, Jun). Methods for establishing validity and reliability of observation protocols. *Proceedings of 2015 ASEE Annual Conference & Exposition*, Seattle, WA.
19. Hirshfield, L. J., Chachra, D., **Finelli, C. J.**, & Goodman, J. M. (2015, Jun). Relating project tasks and team roles in design courses to the development of engineering self-efficacy. *Proceedings of 2015 ASEE Annual Conference & Exposition*, Seattle, WA.
20. Pulford, S., Ruzycki, N. J., **Finelli, C. J.**, Hahn, L. D., & Thorson, D. L. (2015, Jun). Making value for faculty: Learning communities in engineering faculty development. *Proceedings of 2015 ASEE Annual Conference & Exposition*, Seattle, WA. **Winner of the Best Paper Award – ASEE Educational Research and Methods Division**
21. Vernon, J., **Finelli, C. J.**, Perkins, N. C., & Orr, B. (2015, Jun). Piloting i-Newton for the experiential learning of dynamics. *Proceedings of 2015 ASEE Annual Conference & Exposition*, Seattle, WA.
22. **Finelli, C. J.**, DeMonbrun, R. M., Borrego, M., Shekhar, P., Henderson, C., Prince, M. J., & Waters, C. K. (2014, Oct). A classroom observation instrument for assessing student reaction to active learning. *Proceedings of 44th IEEE/ASEE Frontiers in Education Conference*, Madrid, Spain. doi: 10.1109/FIE.2014.7044084
23. Anderson, O. S., & **Finelli, C. J.** (2014, Jun). A faculty learning community to improve teaching practices in large engineering courses: Lasting impacts. *Proceedings of 2014 ASEE Annual Conference & Exposition*, Indianapolis, IN.
24. Borrego, M., Prince, M. J., Nellis, C., Shekhar, P., Waters, C. K., & **Finelli, C. J.** (2014, Jun). Student perceptions of instructional change in engineering courses: A pilot study. *Proceedings of 2014 ASEE Annual Conference & Exposition*, Indianapolis, IN.
25. **Finelli, C. J.**, & Borrego, M. (2014, Jun). An inclusive process for developing a taxonomy of keywords for engineering education research. *Proceedings of 2014 ASEE Annual Conference & Exposition*, Indianapolis, IN.
26. **Finelli, C. J.**, & Millunchick, J. M. (2013, Jun). The Teaching Circle for Large Engineering Courses: Clearing the activation barrier. *Proceedings of 2013 ASEE Annual Conference & Exposition*, Atlanta, GA.
27. **Finelli, C. J.**, Richardson, K. M., & Daly, S. R. (2013, Jun). Factors that influence faculty motivation to adopt effective teaching practices in engineering. *Proceedings of 2013 ASEE Annual Conference & Exposition*, Atlanta, GA.
28. Daly, S. R., **Finelli, C. J.**, Al-Khafaji, A. B., & Neubauer, M. J. (2012, Jun). Student perspectives of faculty classroom practices. *Proceedings of 2012 ASEE Annual Conference & Exposition*, San Antonio, TX.
29. Holsapple, M. A., Sutkus, J. A., **Finelli, C. J.**, Carpenter, D. D., Burt, B. A., Ra, E., Harding, T. S., & Bielby, R. M. (2011, Nov). *Exploring the relationship between satisfaction, pedagogical approaches, and student outcomes*. 26th Annual Conference of the Association for the Study of Higher Education Conference, Charlotte, NC.

30. Carpenter, D. D., **Finelli, C. J.**, Holsapple, M. A., Bielby, R. M., Burt, B. A., Sutkus, J. A., & Harding, T. S. (2011, Oct). Assessing the ethical development of engineering undergraduates in the United States. *Proceedings of 2011 International Research in Engineering Education Symposium*, Madrid, Spain.
31. **Finelli, C. J.**, & Daly, S. R. (2011, Oct). Teaching practices of engineering faculty: Perceptions and actual behavior. *Proceedings of 2011 International Research in Engineering Education Symposium*, Madrid, Spain.
32. Bielby, R. M., Harding, T. S., Carpenter, D. D., **Finelli, C. J.**, Sutkus, J. A., Burt, B. A., Ra, E., & Holsapple, M. A. (2011, Jun). Impact of different curricular approaches to ethics instruction on ethical reasoning ability. *Proceedings of 2011 ASEE Annual Conference & Exposition*, Vancouver, Canada.
33. Burt, B. A., Carpenter, D. D., **Finelli, C. J.**, Harding, T. S., Sutkus, J. A., Holsapple, M. A., Bielby, R. M., & Ra, E. (2011, Jun). Outcomes of engaging engineering undergraduates in co-curricular experiences. *Proceedings of 2011 ASEE Annual Conference & Exposition*, Vancouver, Canada.
34. Holsapple, M. A., Sutkus, J., **Finelli, C. J.**, Carpenter, D. D., Burt, B. A., Ra, E., Harding, T. S., & Bielby, R. M. (2011, Jun). We can't get no satisfaction!: The relationship between students' ethical reasoning and their satisfaction with engineering ethics education. *Proceedings of 2011 ASEE Annual Conference & Exposition*, Vancouver, Canada.
35. Ohland, M. W., Bullard, L. G., Felder, R. M., **Finelli, C. J.**, Layton, R. A., Loughry, M. L., Pomeranz, H. R., Schmucker, D. G., & Woehr, D. J. (2010, Aug). Comprehensive Assessment of Team Member Effectiveness: A behaviorally anchored rating scale. *Proceedings of 2010 Academy of Management Annual Meeting*, Montreal, Canada. doi: 10.5465/amle.2010.0177
36. **Finelli, C. J.**, Meadows, L. A., Lorch, D. P., Davis, C.-S., & Meadows, G. A. (2010, Jun). Are we really "Crossing the Boundary"? Assessing a novel integrated math/science course. *Proceedings of ASEE 2010 Annual Conference & Exposition*, Louisville, KY.
37. Holsapple, M. A. Carpenter, D. D., Sutkus, J. A., **Finelli, C. J.**, Walczak, K., & Harding, T. S. (2010, Jun). Understanding the differences between faculty and administrator goals and students' experiences with ethics education. *Proceedings of ASEE 2010 Annual Conference & Exposition*, Louisville, KY.
38. Visco, D. P., Jr., Schaefer, D., Utschig, T. T., Mohsen, J. P., Fortenberry, N. L., Prince, M. J., & **Finelli, C. J.** (2010, Jun). Preparing for participation in SPEED: An ASEE initiative for a nationally recognized development program for engineering educators. *Proceedings of ASEE 2010 Annual Conference & Exposition*, Louisville, KY. **Winner of the Best Paper Award – ASEE Professional Interest Council V**
39. Walczak, K., **Finelli, C. J.**, Holsapple, M. A., Sutkus, J. A., Harding, T. S., & Carpenter, D. D. (2010, Jun). Institutional obstacles to integrating ethics into the curriculum and strategies for overcoming them. *Proceedings of ASEE 2010 Annual Conference & Exposition*, Louisville, KY.
40. Schaefer, D., Visco, Jr., D. P., Utschig, T. T., Mohsen, J. P., Fortenberry, N. L., Prince, M. J., & **Finelli, C. J.** (2010, Apr). SPEED: An ASEE initiative for a nationally recognized development program for engineering educators. *Proceedings of 2010 ASEE Southeastern Section Conference*, Charleston, SC.
41. Holsapple, M. A., **Finelli, C. J.**, Carpenter, D. D., Harding, T. S., & Sutkus, J. A. (2009, Oct). Work-in-progress: A mixed methods approach to developing an instrument measuring engineering students' positive ethical behavioral outcomes. *Proceedings of 39th IEEE/ASEE Frontiers in Education Conference*, San Antonio, TX. doi: 10.1109/FIE.2009.5350613
42. Harding, T. S., Sutkus, J. A., **Finelli, C. J.**, & Carpenter, D. D. (2009, Jul). Engineering culture and the ethical development of undergraduate students. *Proceedings of 2009 International Research in Engineering Education Symposium*, Palm Cove, Queensland, Australia.
43. **Finelli, C. J.**, & Brown, M. K. (2009, Jun). Using an interactive theater sketch to improve students' teamwork skills. *Proceedings of 2009 ASEE Annual Conference & Exposition*, Austin, TX.

44. Sutkus, J. A., Carpenter, D. D., **Finelli, C. J.**, & Harding, T. S. (2009, Jun). An examination of student experiences related to engineering ethics: Initial findings. *Proceedings of 2009 ASEE Annual Conference & Exposition*, Austin, TX.
45. Sutkus, J. A., Carpenter, D. D., **Finelli, C. J.**, & Harding, T. S. (2008, Oct). Work-in-progress: Building the Survey of Engineering Ethical Development (SEED) instrument. *Proceedings of 38th IEEE/ASEE Frontiers in Education Conference*, Saratoga, NY. doi: 10.1109/FIE.2008.4720486
46. **Finelli, C. J.**, Sutkus, J. A., Carpenter, D. D., & Harding, T. S. (2008, Jul). A longitudinal study of the ethical development of engineering and non-engineering students at a national research university. *Proceedings of 2008 International Research in Engineering Education Symposium*, Davos, Switzerland.
47. Carpenter, D. D., **Finelli, C. J.**, & Harding, T. S. (2008, Jul). Investigating the linkages between unethical professional behaviors and engineering undergraduate cheating. *Proceedings of 2008 International Research in Engineering Education Symposium*, Davos, Switzerland.
48. Mayhew, M. J., Hubbard, S. M., Harding, T. S., **Finelli, C. J.**, & Carpenter, D. D. (2008, Mar). *Using structural equation modeling to validate the Theory of Planned Behavior as a model for predicting student cheating*. Paper at the 2008 Annual Meeting of the American Educational Research Association, New York, NY.
49. **Finelli, C. J.**, Harding, T. S., Carpenter, D. D., & Mayhew, M. J. (2007, Jun). Academic integrity among engineering undergraduates: Seven years of research. *Proceedings of 2007 ASEE Annual Conference & Exposition*, Honolulu, HI.
50. Mayhew, M. J., Harding, T. S., **Finelli, C. J.**, & Carpenter, D. D. (2007, Apr). *Examining the underlying motivations of undergraduates to behave unethically*. Paper at the 2007 Annual Meeting of the American Educational Research Association, Chicago, IL.
51. Meadows, L. A., Nidiffer, J., Ball, S. R., Davis, C.-S. G., **Finelli, C. J.**, & Schultz, W. W. (2006, Oct). Work-in-progress: An initial assessment of the effect of the first year experience on under-represented student retention in engineering. *Proceedings of 36th IEEE/ASEE Frontiers in Education Conference*, San Diego, CA. doi: 10.1109/FIE.2006.322672
52. **Finelli, C. J.**, Gottfried, A. C., Kaplan, M. L., Mesa, V. M., O'Neal, C. M., & Piontek, M. E. (2006, Jun). Evaluating methods to improve teaching in engineering. *Proceedings of 2006 ASEE Annual Conference & Exposition*, Chicago, IL.
53. Harding, T. S., **Finelli, C. J.**, & Carpenter, D. D. (2006, Jun). Cheating in college and its influence on ethical behavior in professional engineering practice. *Proceedings of 2006 ASEE Annual Conference & Exposition*, Chicago, IL.
54. Harding, T. S., **Finelli, C. J.**, Carpenter, D. D., & Mayhew, M. J. (2006, Jun). Examining the underlying motivations of engineering undergraduates to behave unethically. *Proceedings of 2006 ASEE Annual Conference & Exposition*, Chicago, IL.
55. Bullard, L. G., Carter, R. L., Felder, R. M., **Finelli, C. J.**, Layton, R. A., Loughry, M. L., Ohland, M. W., & Schmucker, D. G. (2006, Jun). The Comprehensive Assessment of Team Member Effectiveness: A new peer evaluation instrument. *Proceedings of 2006 ASEE Annual Conference & Exposition*, Chicago, IL.
56. Carpenter, D. D., Harding, T. S., & **Finelli, C. J.** (2006, May). The implications of academic dishonesty in undergraduate engineering on professional ethical behavior. *Proceedings of 2006 World Environmental and Water Resources Congress*, Omaha, NE.
57. Carpenter, D. D., Harding, T. S., & **Finelli, C. J.** (2005, Oct). Work-in-progress: An investigation into the effect of an institutional honor code policy on academic behavior. *Proceedings of 35th IEEE/ASEE Frontiers in Education Conference*, Indianapolis, IN. doi: 10.1109/FIE.2005.1611895

58. **Finelli, C. J., Szwalek, J. L.,** Harding, T. S., & Carpenter, D. D. (2005, Oct). A case study of research in engineering education: Designing, testing, and administering the PACES-2 Survey on academic integrity. *Proceedings of 35th IEEE/ASEE Frontiers in Education Conference*, Indianapolis, IN. doi: 10.1109/FIE.2005.1612013
59. Ohland, M. W., Loughry, M. L., Carter, R. L., Bullard, L. G., Felder, R. M., **Finelli, C. J.,** Layton, R. A., & Schmucker, D. G. (2005, Sep). Developing a peer evaluation instrument that is simple, reliable, and valid. *Proceedings of 4th ASEE/Australasian Association for Engineering Education Global Colloquium on Engineering Education*, Sydney, Australia.
60. Ohland, M. W., Loughry, M. L., Carter, R. L., Bullard, L. G., Felder, R. M., **Finelli, C. J.,** Layton, R. A., & Schmucker, D. G. (2005, Jun). Developing a peer evaluation instrument that is simple, reliable, and valid. *Proceedings of 2005 ASEE Annual Conference & Exposition*, Portland, OR.
61. Passow, H. J., Mayhew, M. J., **Finelli, C. J.,** Carpenter, D. D., & Harding, T. S. (2005, Apr). *Factors influencing engineering students' decisions to cheat by type of assignment*. Paper at the 2005 Annual Meeting of the American Educational Research Association, Montréal, Québec, Canada.
62. Passow, H. J., Mayhew, M. J., **Finelli, C. J.,** Carpenter, D. D., & Harding, T. S. (2004, Nov). *Factors influencing engineering students' decisions to cheat vary by type of assignment*. Paper at the 29th Annual Conference of the Association for the Study of Higher Education, Kansas City, MO.
63. Etter, B. K., Harding, T. S., **Finelli, C. J.,** & Carpenter, D. D. (2004, Oct). The role of moral philosophy in promoting academic integrity among engineering students. *Proceedings of 34th IEEE/ASEE Frontiers in Education Conference*, Savannah, GA. doi: 10.1109/FIE.2004.1408691
64. Harding, T. S., Carpenter, D. D., **Finelli, C. J.,** & Passow, H. J. (2004, Jun). The influence of academic dishonesty on ethical decision making in the workplace: A study of engineering students. *Proceedings of 2004 ASEE Annual Conference & Exposition*, Salt Lake City, UT.
65. Harding, T. S., Carpenter, D. D., **Finelli, C. J.,** & Passow, H. J. (2003, Nov). An examination of the relationship between academic dishonesty and professional behavior. *Proceedings of 33rd IEEE/ASEE Frontiers in Education Conference*, Boulder, CO. doi: 10.1109/FIE.2003.1265933
66. **Finelli, C. J.,** Harding, T. S., Carpenter, D. D., & Passow, H. J. (2003, Jun). Students' perceptions of both the certainty and the deterrent effect of potential consequences of cheating. *Proceedings of 2003 ASEE Annual Conference & Exposition*, Nashville, TN. **Winner of the Best Paper Award – ASEE Educational Research and Methods Division**
67. **Finelli, C. J.,** & Yokomoto, C. F. (2002, Jun). Do students who know more solve problems more successfully? *Proceedings of 2002 ASEE Annual Conference & Exposition*, Montréal, Québec, Canada
68. Harding, T. S., & **Finelli, C. J.** (2002, Jun). Suggestions for establishing centers for engineering education. *Proceedings of 2002 ASEE Annual Conference & Exposition*, Montréal, Québec, Canada.
69. Carpenter, D. D., Harding, T. S., Montgomery, S. M., & Steneck, N. H. (2002, Jun). P.A.C.E.S.—A study on academic integrity among engineering undergraduates (preliminary conclusions). *Proceedings of 2002 ASEE Annual Conference & Exposition*, Montréal, Québec, Canada.
70. **Finelli, C. J.** (2001, Oct). Assessing improvement in students' team skills and using a learning style inventory to increase it. *Proceedings of 31st IEEE/ASEE Frontiers in Education Conference*, Reno, NV. doi: 10.1109/FIE.2001.964023
71. Ohland, M. W., & **Finelli, C. J.** (2001, Jun). Peer evaluation in a mandatory cooperative education environment. *Proceedings of 2001 ASEE Annual Conference & Exposition*, Albuquerque, NM.
72. Klinger, A., **Finelli, C. J.,** & Budny, D. D. (2000, Oct). Improving the classroom environment. *Proceedings of 30th IEEE/ASEE Frontiers in Education Conference*, Kansas City, MO. doi: 10.1109/FIE.2000.897528

73. Wilkinson, K. R., **Finelli, C. J.**, Hynes, E., & Alzahabi, B. (2000, Oct). University-wide curriculum reform: Two processes to aid in decision making. *Proceedings of 30th IEEE/ASEE Frontiers in Education Conference*, Kansas City, MO. doi: 10.1109/FIE.2000.897653
74. **Finelli, C. J.** (1999, Nov). A team-oriented, project-based freshman problem-solving course: Benefits of early exposure. *Proceedings of 29th IEEE/ASEE Frontiers in Education Conference*, San Juan, Puerto Rico. doi: 10.1109/FIE.1999.839088
75. Melton, D. E., **Finelli, C. J.**, & Rust, L. M. (1999, Nov). A digital signal processing laboratory with style. *Proceedings of 29th IEEE/ASEE Frontiers in Education Conference*, San Juan, Puerto Rico. doi: 10.1109/FIE.1999.839074
76. **Finelli, C. J.**, Doty, S. L., Svinarich, K. A., & Winkler, B. S. (1997, Oct). A digitized acquisition system for electroretinograms and its use in studying the effects of organic buffers on the isolated rat retina. *Proceedings of 19th Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, Chicago, IL, 2212-2214. doi: 10.1109/IEMBS.1997.758797
77. Svinarich, K. A., **Finelli, C. J.**, & Doty, S. L. (1997, Jun). Issues involved in cross-discipline collaboration and off-campus research. *Proceedings of 1997 ASEE Annual Conference & Exposition*, Milwaukee, WI.
78. **Finelli, C. J.**, Sullivan, L. L., & Loving, P. Y. (1994, Jun). Engineering and science for the twenty-first century woman: A pre-college program. *Proceedings of 1994 Annual Women in Engineering Conference*, Washington, DC, 157-162.
79. **Finelli, C. J.**, Jenkins, J. M., & DiCarlo, L. A. (1993, Sep). Detection and identification of cardiac arrhythmias using an adaptive, linear-predictive filter. *Proceedings of IEEE 1993 Computers in Cardiology*, London, England, 177-180. doi: 10.1109/CIC.1993.378475
80. **Finelli, C. J.**, Wakefield, G. H., Jenkins, J. M., & DiCarlo, L. A. (1992, Mar). The time-sequenced adaptive filter for linear prediction of the intraventricular electrogram. *Proceedings of IEEE 1992 International Conference on Acoustics, Speech, and Signal Processing*, San Francisco, CA, 577-580. doi: 10.1109/ICASSP.1992.226382
81. **Finelli, C. J.**, & Jenkins, J. M. (1991, Nov). A cyclostationary least mean squares algorithm for discrimination of ventricular tachycardia from sinus rhythm. *Proceedings of 13th Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, Orlando, FL, 740-741. doi: 10.1109/IEMBS.1991.684170
82. **Finelli, C. J.**, Li, P., & Jenkins, J. M. (1991, Sep). The time-sequenced adaptive algorithm: Application to morphological adaptation and arrhythmia onset detection. *IEEE 1991 Proceedings of Computers in Cardiology*, Venice, Italy, 205-208. doi: 10.1109/CIC.1991.169081
83. **Finelli, C. J.**, Li, P., Jenkins, J. M., Throne, R. D., & DiCarlo, L. A. (1990, Sep). Intraventricular electrogram morphology: Effect of increased heart rate with and without accompanying changes in sympathetic tone. *Proceedings of IEEE 1990 Computers in Cardiology*, Chicago, IL, 115-119. doi: 10.1109/CIC.1990.144177
84. Throne, R. D., Jenkins, J. M., Winston, S. A., **Mays (Finelli), C. J.**, & DiCarlo, L. A. (1989, Sep). A comparison of correlation waveform analysis with a bin area method for recognition of retrograde activation in atrial electrograms. *Proceedings of IEEE 1989 Computers in Cardiology*, Jerusalem, Israel, 113-117. doi: 10.1109/CIC.1989.130496

Government, university, or industrial reports (non-refereed)

1. **Finelli, C. J.**, Bergom, I. M., & Mesa, V. M. (2011). *Student teams in the engineering classroom and beyond: Setting up students for success*. Occasional Paper No. 29. Ann Arbor, MI: Center for Research on Learning and Teaching, University of Michigan. Available online: crlt.umich.edu/sites/default/files/resource_files/CRLT_no29.pdf

2. Brown, M. K., Hershock, C., **Finelli, C. J.**, & O'Neal, C. M. (2009). *Teaching for retention in science, engineering, and math disciplines: A guide for faculty*. Occasional Paper No. 25. Ann Arbor, MI: Center for Research on Learning and Teaching, University of Michigan. Available online: crlt.umich.edu/sites/default/files/resource_files/CRLT_no25.pdf
3. Davis, C.-S. G., **Finelli, C. J.**, Gregerman, S., Holloway, J. P., & Meadows, L. A. (2007, May). Undergraduate initiatives to improve diversity and retention in engineering. *Proceedings of educating a STEM workforce: New strategies for the University of Michigan and the State of Michigan*, Ann Arbor, MI.

Refereed conference summaries or abstracts

1. Johnson, A. W., & **Finelli, C. J.** (2017, Aug). *Supporting different instructor pedagogies and student activities in a flexible classroom*. Presented at the International Forum on Active Learning Classrooms, Minneapolis, MN.
2. Nguyen, K. A., Shekhar, P., Husman, J., Borrego, M., Prince, M. J., **Finelli, C. J.**, Waters, C. K., DeMonbrun, R. M., & Henderson, C. (2016, Mar). *Students' expectations in undergraduate engineering active learning courses*. Presented at Mid-Years Engineering Experience Conference, College Station, TX.
3. **Finelli, C. J.**, Kaplan, M. L., & O'Neal, C. M. (2006, Oct). *How different types of instructional consultations affect faculty teaching practices*. Presented at 2006 Annual Professional and Organizational Development Conference, Portland, OR.
4. Harding, T. S., Carpenter, D. D., **Finelli, C. J.**, & Mayhew, M. J. (2005, Jun). *Cheating in college and the workplace: An examination of engineering undergraduates' ethical behavior*. Presented at 2005 ASEE Annual Conference & Exposition, Portland, OR.
5. Harding, T. S., Carpenter, D. D., **Finelli, C. J.**, & Passow, H. J. (2003, Oct). *The relationship between academic dishonesty and ethical behavior in engineering practice*. Presented at the 2003 Ethics and Social Responsibility in Engineering and Technology Conference, New Orleans, LA.
6. Rust, L. M., Palmer, K. I., & **Finelli, C. J.** (1999, Nov). *Energized enigma*. Presented at 29th IEEE/ASEE Frontiers in Education Conference, San Juan, Puerto Rico. doi: 10.1109/FIE.1999.840479
7. **Finelli, C. J.**, & Wicks, M. A. (1999, Jun). *An assessment tool for the circuits sequence of an electrical engineering curriculum*. Presented at 1999 ASEE Annual Conference & Exposition, Charlotte, NC.
8. Rust, L. M., Palmer, K. I., & **Finelli, C. J.** (1998, Jun). *Electrical escapades*. Presented at 1998 ASEE Annual Conference & Exposition: Women in Engineering Workshop, Seattle, WA.
9. Svinarich, K. A., Doty, S. L., **Finelli, C. J.**, Arnold, J. J., & Winkler, B. S. (1997, Oct). *An evaluation of the role of aspartate aminotransaminase in rat photoreceptors*. Presented at Annual Society for Neuroscience Conference, New Orleans, LA.
10. **Finelli, C. J.**, & Thompson, M. G. (1996, Apr). Integrating biomedical signal processing into the undergraduate curriculum. *Proceedings of 1996 North Central Section ASEE Annual Conference*, Big Rapids, MI.
11. **Finelli, C. J.**, & Wicks, M. A. (1996, Apr). Assessment of student achievement and retention of electrical circuit concepts in a cooperative education program. *Proceedings of 1996 North Central Section ASEE Annual Conference*, Big Rapids, MI.
12. **Finelli, C. J.**, DiCarlo, L. A., Jenkins, J. M., & Li, P. (1991, Sep). *Increased heart rate and sympathetic tone: Impact on correlation waveform, area of difference, and electrogram amplitude analyses*. Poster at IEEE 1991 Computers in Cardiology Conference, Venice, Italy.
13. **Finelli, C. J.**, Throne, R. D., Antoniadis, N., Jenkins, J. M., Winston, S. A., & DiCarlo, L. A. (1990, Apr). *Impact of increased heart rate alone and heart rate plus contractility upon intraventricular ECG morphology*.

Paper at 15th Annual ISCE Conference on Computer Applications in Electrocardiology, Virginia Beach, VA.

14. Meliones, J. N., **Mays (Finelli), C. J.**, Dick, M., Jenkins, J. M., **Blevins, M.**, & Armstrong, B. (1989, May). *Computer analysis of the dynamic relationship between RR and QT interval in infants*. Paper at the 1998 Annual Conference of the American Pediatric Society and the Society for Pediatric Research.
15. Throne, R. D., Jenkins, J. M., Winston, S. A., **Mays (Finelli), C. J.**, & DiCarlo, L. A. (1989, Apr). *Correlation waveform analysis of intraatrial electrograms: An accurate method for discriminating anterograde from retrograde atrial activation*. Paper at the 1989 Annual North American Society for Pacing and Electrophysiology Conference.
16. DiCarlo, L. A., Jenkins, J. M., Throne, R. D., **Mays (Finelli), C. J.**, & Lin, D. (1989, Apr). *Classification of arrhythmias using atrial and ventricular endocardial electrograms*. Paper at the Engineering Foundation Conference on Computerized Interpretation of the Electrocardiogram XIV.

Invited lectures, seminars, panels, and interviews (invited keynote addresses listed previously)

1. Ohland, M., **Finelli, C. J.**, Riley, D., McKenna, A., Abrams, L., Ragusa, G., Imbrie, P.K. (2017). *Engineering education research: Purpose, impact, and future*. ASEE Dean's Council panel moderated by Jerome P. Lavelle at the 2017 ASEE Annual Conference & Exposition, Columbus, OH.
2. **Finelli, C. J.** (2017). *Understanding and overcoming student resistance and other barriers to faculty's use of active learning*. Engineering Education Research Speaker Series. University of Pittsburgh, Pittsburgh, PA. 04/06/17.
3. **Finelli, C. J.** (2017). *Student resistance and other obstacles to adoption of active learning: Understanding and overcoming them*. Engineering and Science Education Department Seminar. Clemson, University, Clemson, SC. 03/31/17.
4. **Finelli, C. J.** (2016). *Integrating theory and local data to improve teaching*. REBUILD Foundational Courses in STEM: Lessons Learned and Future Directions Seminar Series, University of Michigan, Ann Arbor, MI. 11/01/16.
5. Bauer, C., **Finelli, C. J.**, Guzdial, M., Kussmaul, C., Pullin, M., Searls, M., Whitmeyer, S., & Ziegenfuss, D. (2016). *Building a faculty development toolbox*. American Association for the Advancement of Science (AAAS)'s Conference "Envisioning the Future of Undergraduate STEM Education: Research and Practice," Washington, DC. 04/27/16.
6. **Finelli, C. J.** (2015). *Promoting faculty adoption of effective teaching practices*. Chemical and Biological Engineering Department Graduate Seminar Series, Iowa State University, Ames, IA. 09/24/15.
7. **Finelli, C. J.** (2015). *Perspectives and priorities in STEM higher education research*. Centre for Discipline Based Education Research Plenary Discussion, Uppsala University, Uppsala, Sweden. 03/17/15.
8. **Finelli, C. J.** (2015). *Promoting faculty adoption of effective teaching practices*. School of Engineering Education Seminar, Purdue University, West Lafayette, IN. 03/05/15.
9. Austin, A. E., Singer, S. R., Barkanic, S. A., Bryk, A. S., Fairweather, J. S., **Finelli, C. J.**, Mathieu, R. D., & Penuel, W. R. (2014). *Integrating theory and local data to inform action: The Teaching Circle*. Invited participant for presidential panel (Linking theory, research, and action to improve STEM undergraduate education) at the 2014 Annual Meeting of the American Educational Research Association, Philadelphia, PA. 04/06/14.
10. **Finelli, C. J.** (2014). *Factors influencing faculty adoption of effective teaching practices*. Engineering Education Department Seminar, Virginia Polytechnic Institute and State University, Blacksburg, VA. 03/28/14.

11. **Finelli, C. J.** (2013). *The line between innovation, technology, and moral standards* [radio interview]. *Stateside with Cynthia Canty*. Ann Arbor, MI: Michigan Radio. 06/12/13. michiganradio.org/post/line-between-innovation-technology-and-moral-standards
12. **Finelli, C. J.** (2009). *Educating ethical engineers*. University Lecture Series, Carnegie Mellon University, Pittsburgh, PA. 04/01/09.
13. **Finelli, C. J.** (2007). *Academic integrity among engineering undergraduates*. Faculty Innovation Seminar, University of Texas, Austin, TX. 10/29/07.
14. **Finelli, C. J.** (2004). *Learning styles and their implications for teaching*. Invited workshop at Professional Development Day, Lawrence Technological University, Southfield, MI. 01/08/04.
15. **Finelli, C. J.** (2000). *Promoting active learning using cooperative learning techniques*. Invited workshop at the 2000 North East Regional ASEE Annual Conference, Lowell, MA. 04/28/00.
16. Jenkins, J. M., **Finelli, C. J.**, DiCarlo, L. A., & Greenhut, S. E. (1990). *Implantable defibrillation and external pace technology*. Invited presentation at the Midyear Meeting & Exposition, Association for the Advancement of Medical Instrumentation/Michigan Society for Clinical Engineering, Dearborn, MI. 11/04/90.

Workshops at national conferences (postdoctoral fellow co-authors double underlined)

1. **Finelli, C. J.**, Kotys-Schwartz, D., & Zappe, S. (2016, Jun). *Introduction to engineering education research*. Workshop for the 2016 ASEE Annual Conference & Exposition, New Orleans, LA. 06/26/16.
2. Bates, R. A., Benson, L., Cheville, A., **Finelli, C. J.**, Karlin, J., & Lord, S. M. (2015). *Agents for STEM change – Articulating the goals of our community*. Special session at the 45th IEEE/ASEE Frontiers in Education Conference, El Paso, TX. 10/23/15. doi: 10.1109/FIE.2015.7344195.
3. **Finelli, C. J.**, & Rasoulifar, G. (2014). *Using and disseminating a taxonomy for engineering education research*. Mini-workshop at the 44th IEEE/ASEE Frontiers in Education Conference, Madrid, Spain. 10/22/14. doi: 10.1109/FIE.2014.7043989
4. Bates, R. A., Cheville, R. A., Karlin, J. N., Benson, L. C., **Finelli, C. J.**, & Lord, S. M. (2014). *Agents for STEM change – Articulating the goals of our community*. Special session at the 44th IEEE/ASEE Frontiers in Education Conference, Madrid, Spain. 10/24/14. doi: 10.1109/FIE.2014.7044308. **Winner of the Helen Plants Award – IEEE/ASEE Frontiers in Education Steering Committee**
5. Richards, L. G., Rowland, J. R., Lord, S. M., Froyd, J. E., **Finelli, C. J.**, Meier, R., Atman, C. J., Jones, E., & Anderson-Rowland, M. R. (2014). *Pursuing the frontiers: The history and future of the Frontiers in Education Conference*. Panel presentation at the 44th IEEE/ASEE Frontiers in Education Conference, Madrid, Spain. 10/24/14. doi: 10.1109/FIE.2014.7044187
6. Smith, K. A., & **Finelli, C. J.** (2014). *Preparing facilitators for virtual faculty development programs*. Special session at the 2014 ASEE Annual Conference & Exposition, Indianapolis, IN. 06/16/14.
7. **Finelli, C. J.** (2013). *Refining a taxonomy for engineering education research*. Workshop at the 43rd IEEE/ASEE Frontiers in Education Conference, Oklahoma City, OK. 10/23/13. doi: 10.1109/FIE.2013.6684779
8. **Finelli, C. J.** (2013). *Refining a taxonomy for engineering education research*. Workshop at the 2013 International Research in Engineering Education Symposium, Kuala Lumpur, Malaysia, 07/06/13.
9. **Finelli, C. J.**, & Borrego, M. (2013). *Refining a taxonomy for engineering education research*. Workshop at the 2013 ASEE Annual Conference & Exposition, Atlanta, GA. 06/23/13.
10. Smith, K. A., & **Finelli, C. J.** (2013). *Faculty development through Virtual Communities of Practice (VCP)*. Special session at the 2013 ASEE Annual Conference & Exposition, Atlanta, GA. 06/25/13.

11. **Finelli, C. J.**, Carpenter, D. D., Harding, T. S., & Sutkus, J. A. (2012). *An exploration of the ethical development of engineering undergraduates*. Workshop at the 2012 ASEE Annual Conference & Exposition, San Antonio, TX. 06/10/12.
12. **Finelli, C. J.**, & Harding, T. S. (2011). *Survey of Engineering Ethical Development – Regional Workshop*. Ann Arbor, MI. 10/24/11.
13. Carpenter, D. D., Sutkus, J. A., **Finelli, C. J.**, & Harding, T. S. (2011). *An exploration of the ethical development of engineering undergraduates*. Mini workshop at the 41st IEEE/ASEE Frontiers in Education Conference, Rapid City, SD. 10/21/11. doi: 10.1109/FIE.2011.6142939
14. Pawley, A. L., Riley, D., Harding, T. S., Lord, S. M., & **Finelli, C. J.** (2009). *From active learning to liberative pedagogies: Alternative teaching philosophies in CSET education*. Special session at the 39th IEEE/ASEE Frontiers in Education Conference, San Antonio, TX. 10/19/09. doi: 10.1109/FIE.2009.5350559
15. Litzinger, T. A., **Finelli, C. J.**, Atman, C. J., Fortenberry, N. L., & Griffin, H. O. (2009). *Engineering education centers and academic units*. Workshop at the 2009 ASEE Annual Conference & Exposition, Austin, TX. 06/15/09.
16. Harding, T. S., Carpenter, D. D., & **Finelli, C. J.** (2009). *Ethics education or ethical development?* Invited workshop at the National Science Foundation Engineering Education and Centers Awardees' Conference, Reston, VA. 02/02/09.
17. Harding, T. S., **Finelli, C. J.**, & Carpenter, D. D. (2008). *Ethics education or ethical development: What is the best goal for engineering education?* Workshop at the 2008 ASEE Annual Conference & Exposition, Pittsburgh, PA. 06/22/08.
18. Litzinger, T. A., Atman, C. J., **Finelli, C. J.**, Fortenberry, N. L., & Radcliffe, D. F. (2008). *Engineering education centers and departments as drivers of change*. Workshop at the 2008 ASEE Annual Conference & Exposition, Pittsburgh, PA. 06/22/08.
19. Bullard, L. G., **Finelli, C. J.**, Layton, R. A., Loughry, M. L., & Ohland, M. W. (2006). *Conducting peer evaluations using the comprehensive assessment of team member effectiveness*. Workshop at the 2006 ASEE Annual Conference & Exposition, Chicago, IL. 06/18/06.

Other publications (Poster presentations and non-refereed proceedings) (student co-authors underlined)

1. DeMonbrun, R. M., & **Finelli, C.** (2017). *Development of a survey instrument to measure student response to instructional practices*. Poster presented at the 2017 University of Michigan Research and Scholarship in Engineering Education Poster Fair, Ann Arbor, MI.
2. **Finelli, C. J.**, DeMonbrun, R. M., Borrego, M. J., & Shekhar, P. (2015). *Development of a survey instrument to measure students' resistance to active learning*. Poster presented at the 2015 University of Michigan Research and Scholarship in Engineering Education Poster Fair, Ann Arbor, MI.
3. **Finelli, C. J.**, Carpenter, D. D., & Harding, T. S. (2012, Mar). *Collaborative research: A holistic assessment of the ethical development of engineering undergraduates*. Poster at the National Science Foundation Engineering Education Awardees Conference, Arlington, VA.
4. **Finelli, C. J.**, Carpenter, D. D., & Harding, T. S. (2011, Feb). *The Survey of Engineering Ethical Decision-Making: Developing measures of engineering students' positive ethical behavior*. Poster at the National Science Foundation Engineering Education Awardees Conference, Reston, VA.
5. **Finelli, C. J.**, Holsapple, M. A., Sutkus, J. A., Carpenter, D. D., Harding, T. S., & Walczak, K. (2010, Feb). *The Survey of Engineering Ethical Decision-Making: Developing measures of engineering students' positive ethical behavior*. Poster at the National Science Foundation Engineering Education Awardees Conference, Reston, VA.

6. Carpenter, D. D., **Finelli, C. J.**, Harding, T. S., Sutkus, J. A., & Holsapple, M. A. (2009, Feb). *A holistic assessment of the ethical development of engineering undergraduates*. Poster at the National Science Foundation Engineering Education and Centers Grantee Conference, Reston, VA.
7. Harding, T. S., **Finelli, C. J.**, Carpenter, D. D., & Mayhew, M. J. (2007, Nov). *Factors influencing moral development in professional education*. Roundtable discussion conducted at the 33rd Annual Conference of the Association for Moral Education, New York, NY.
8. **Finelli, C. J.**, Harding, T. S., Carpenter, D. D., & Sutkus, J. A. (2007, Sep). *Academic integrity among engineering undergraduates: Seven years of research by the E³ Team*. Poster at the National Science Foundation Engineering Education and Centers Grantee Conference, Arlington, VA.
9. Ohland, M. W., Loughry, M. L., Sill, B. L., Felder, R. M., Layton, R. A., **Finelli, C. J.**, Schmucker, D. G., Bullard, L. G., & Carter, R. L. (2003, Sep). *Designing a peer evaluation instrument that is simple, reliable, and valid*. Poster at the National Science Foundation Engineering and Computing Education Awardees Conference, Washington, DC.
10. **Finelli, C. J.** (1992, Oct). *The time-sequenced adaptive filter for linear prediction of the intraventricular electrogram*. Poster at the 1992 Third Annual GMI Industry Symposium, Flint, MI.

RESEARCH GRANTS

Current grants and contracts (listed in reverse chronological order according to start date)

1. **Finelli, C. J.** *Impact of flexible classroom spaces on faculty pedagogy and student behavior*. National Science Foundation – Improving Undergraduate STEM Education (IUSE) Program. Award # DUE-1711533, \$300,000. 06/01/17 – 05/31/19.
2. Perkins, N. C. & **Finelli, C. J.** *Introduction and assessment of i-Newton for the engaged learning of engineering dynamics*. National Science Foundation – Improving Undergraduate STEM Education (IUSE) Program. Award # DUE-1609204, \$299,992. 09/15/16 – 08/31/19.
3. Millunchick, J. M., & **Finelli, C. J.** *Research Initiation: Understanding the relationships between participation in co-curricular activities, student characteristics, and the professional formation of engineers*. National Science Foundation – Professional Formation of Engineers, Research Initiation in Engineering Formation (RIEF). Award # EEC-1640417. \$150,000. 09/01/16 – 08/31/18.
4. **Finelli, C. J.**, & Prince, M. J. *Collaborative research: Understanding and reducing student resistance as a barrier to faculty change*. National Science Foundation – Widening Implementation and Demonstration of Evidence-based Reforms (WIDER) Program. Award # DUE-1347718, \$211,669. 09/15/13 – 08/31/17.

Pending grants and contracts (listed in reverse chronological order according to submission date)

1. **Finelli, C. J.** *How do students respond to active learning? A systematic review of the literature*. National Science Foundation – Improving Undergraduate STEM Education (IUSE) Program. Proposal # DUE-1744407, \$99,739. 09/01/17 – 08/31/18. Proposal submitted 05/15/17.

Past grants and contracts (listed in reverse chronological order according to start date)

1. Hirshfield, L., & **Finelli, C. J.** *The influence of team projects on engineering students' self-efficacy and interest*. University of Michigan – Transforming Learning for the Third Century (TLTC) Discovery Program, \$50,000. 05/01/15 – 08/31/16.
2. **Finelli, C. J.** *Collaborative research: The SEED-PA. A practical instrument for assessing individual ethics initiatives*. National Science Foundation – Transforming Undergraduate Education in STEM (TUES)

- Program. Award # DUE-1140175, \$86,656. 04/15/12 – 03/31/16.
3. **Finelli, C. J.** *Motivating change in faculty teaching practices to support a diverse student body in engineering.* National Science Foundation – Course, Curriculum, and Laboratory Improvement (CCLI) Program. Award # DUE-0941924, \$239,353. 09/15/10 – 09/30/15.
 4. **Finelli, C. J.** *Exploring the relationship between self-efficacy and project-based learning among engineering students.* National Science Foundation CAREER Program. Sub award to University of Michigan from Olin College, \$92,989. 10/01/14 – 09/30/15.
 5. **Finelli, C. J., & DeMonbrun, R. M.** *Faculty teaching practices: Perceptions vs. reality.* University of Michigan – Rackham Spring/Summer Research Grants Program. \$13,165 (50% GSRA). 05/01/15 – 08/31/15.
 6. **Finelli, C. J., & Borrego, M.** *Workshops to create a taxonomy for engineering education research and prioritize areas of research.* National Science Foundation – Engineering Education Program (EEP). Award # EEC-1240797, \$233,178. 09/15/12 – 12/31/14.
 7. Perkins, N. C., **Finelli, C. J., & Orr, B.** *Piloting i-Newton for the experiential learning of dynamics in University of Michigan physics and engineering.* University of Michigan Transforming Learning for the Third Century (TLTC) Discovery Program, \$35,905. 05/01/13 – 10/31/14.
 8. Lattuca, L. R., **Finelli, C. J., & Lawrence, J. H.** *Catalyzing Interdisciplinary collaborations: Studying the impact of M-Cubed on researchers and research.* University of Michigan M-Cubed Program, \$60,000. 12/01/12 – 06/30/14.
 9. **Finelli, C. J., & Sutkus, J. A.** *A longitudinal study of the ethical development of engineering and humanities students at the University of Michigan.* University of Michigan Office of the Vice President for Research & Horace H. Rackham School of Graduate Studies – Research on Ethics in Public Life Program. \$5,190, 01/01/08 – 05/30/08.
 10. **Finelli, C. J., King, P. M., & Dey, E. L.** *Collaborative research: A holistic assessment of the ethical development of engineering undergraduates.* National Science Foundation – Engineering Education Program (EEP). Award # EEC-0647532, \$548,181. 03/01/07 – 02/28/13.
 11. **Finelli, C. J.** *Evaluating methods to improve teaching in engineering.* Rigorous Research in Engineering Education Minigrant Program, \$3,000. 10/15/05.
 12. Carpenter, D. D., Harding, T. S., & **Finelli, C. J.** *An investigation into the relationships between students' level of moral development and their academic integrity.* Kern Family Foundation, \$24,450. 12/17/03.
 13. Harding, T. S., Carpenter, D. D., & **Finelli, C. J.** *A comparison of factors that influence cheating in engineering undergraduates.* American Society of Engineering Education – Educational Research and Methods Division Minigrant Program, \$2,500. 06/23/03 – 06/22/04.
 14. Ohland, M. W., Bullard, L. G., **Finelli, C. J.** (co-PI), Layton, R. A., & Loughry, M. L. *Designing a peer evaluation instrument that is simple, reliable, and valid.* National Science Foundation – Assessment of Student Achievement in Undergraduate Education Program. Award # DUE-0243254, \$644,590. 06/01/03 – 05/30/07.
 15. Svinarich, K. A., Doty, S. L., & **Finelli, C. J.** *Effects of aminoxyacetate on the metabolism of the isolated rat retina as monitored via the electroretinogram.* Kettering University Research Initiation and Improvement Competition, \$5,000. 06/01/98.
 16. **Finelli, C. J.,** Svinarich, K. A., & Doty, S. L. *Time-course analysis of the electroretinogram.* Kettering University Rodes Professorship Award, \$5000. 05/01/98.
 17. **Finelli, C. J.,** Rust, L. M., & Melton, D. E. *An innovative digital signal processing laboratory for physical systems.* National Science Foundation – Instrumentation and Laboratory Improvement (ILI) Program. Award # DUE-9851088, \$64,856. 07/01/98 – 06/30/00.

18. **Finelli, C. J.** Kettering University Teaching Improvement Grant, \$1,000. 06/01/97.
19. Ravi, K., Thompson, M. G., **Finelli, C. J.**, Melton, D. E., & Rust, L. M. *Improved equipment for student digital signal processing laboratories*. Texas Instruments' University Program, \$17,970. 12/01/95.
20. **Finelli, C. J.** GMI Engineering & Management Institute Teaching Improvement Grant, \$1,000. 04/01/95.
21. **Finelli, C. J.** *Application of power spectral analysis to ST segment trends for improved assessment of coronary patency*. GMI Engineering & Management Institute Research Initiation/Improvement Grant, \$4,998. 11/01/93.
22. **Finelli, C. J.**, & Jenkins, J. M. *Adaptive filtering techniques applied to arrhythmia analysis*. The University of Michigan Rackham Research Partnership Fellowship, \$22,000. 1991.
23. **Finelli, C. J.** *Effect of sympathetic tone and cardiovascular drugs on ventricular electrogram morphology*. Eli Lilly and Company/Cardiac Pacemakers, Inc. Research Fellowship, \$40,000. 1989.

SERVICE

Editorial, reviewer, and consultant roles

1. Deputy Editor, *Journal of Engineering Education*. 07/01/17 – present.
2. Associate Editor, *IEEE Transactions on Education*. Two, three-year terms, 07/01/14 – present.
3. External review committee, Engineering Education Innovation Center, Ohio State University. Mar 2014.
4. Chair, National Science Foundation Community of Scholars panel. 2010. (PI: Roger Seals).
5. International planning/advisory committee member, *International Research in Engineering Education Symposium*. 2009 and 2011.
6. Guest co-editor, *International Journal of Engineering Education: Special Issue on Applications of Engineering Education Research*. 2009.
7. Reviewer:
 - *Academy of Management Learning & Education*. 2016
 - *National Science Foundation*. 2002 – present.
 - *International Journal of Engineering Education*. 2005 – present.
 - *Journal of Engineering Education*. 2002 – present.
 - *IEEE Transactions on Education*. 1998 – 2001 and 2013 – present.
 - *IEEE Transactions on Biomedical Engineering*. 1996.
 - *Proceedings of IEEE*. 2002.
 - *McGraw Hill Publishing Company*. 1998, 2000, and 2004.
 - *John Wiley & Sons, Inc.* 1997.
 - *Richard D. Irwin Publishing Company*. 1996.

Invited workshop participant

1. Invited participant, *Denise Denice Denton Emerging Leaders Workshop*. Madison, WI. 06/03/16.
2. Invited participant, National Science Foundation / American Association for the Advancement of Science (AAAS) workshop *Measurement of teaching practices in undergraduate STEM*. Washington, DC. 12/17/12 – 12/19/12.

3. Invited participant, *Engineering Education Research Colloquy 2*. Indianapolis, IN. 10/18/05 – 10/19/05.
4. Invited participant, National Science Foundation workshop *Creating engineering education opportunities: Why and how?* Washington, DC. 03/06/09.
6. Invited participant, National Science Foundation workshop *Rigorous research in engineering education*. Golden, CO. 08/01/05 – 08/05/05.

Advisory boards

1. *Investing in instructors: Creating intelligent feedback loops in large foundational courses for undergraduate engineering*. National Science Foundation – Improving Undergraduate STEM Education (IUSE). PI: Jacob Grohs, Virginia Polytechnic Institute and State University. 07/01/17 – 12/31/19.
2. *Collaborative research: Supporting agency among early career engineering education faculty in diverse institutional contexts*. National Science Foundation – Engineering Education and Centers (EEC). PI: Alexandra Strong, Olin College. 06/01/17 – 05/31/20.
3. *Collaborative research: Spatial visualization skills and engineering problem solving*. National Science Foundation – Engineering Core Research (ECR). PI: Sheryl Sorby, The Ohio State University. 01/17/17 – 08/31/20.
4. *Investigating entrepreneurship education as a means to developing the 21st century engineer*. National Science Foundation – Improving Undergraduate STEM Education (IUSE). PI: Aileen Huang-Saad, University of Michigan. 06/15/15 – 05/31/17.
5. *Microaggressions in engineering student teams: Effects on learning, performance, and persistence*. National Science Foundation – Research on Gender in Science and Engineering Program. PI: Denise J. Sekaquptewa, University of Michigan. 09/01/14 – 08/31/17.
6. *Characterizing faculty discourses on gender in engineering education for effective interventions*. National Science Foundation – Engineering Education Program (EEP). PI: Kacey Beddoes, Oregon State University. 09/01/14 – 08/31/16.
7. *Investigating global engineering work practices to prepare 21st century engineers*. National Science Foundation CAREER award. PI: Lisa McNair, Virginia Polytechnic Institute and State University. 01/01/10 – 12/31/14.
8. Center for Excellence in Teaching and Learning, Kettering University. Sep 2011 – Dec 2013.
9. *Strengthening the Performance of Engineering and Technology Educators across Disciplines (SPEED)*. American Society of Engineering Education. Oct 2009 – Jul 2010.

Professional societies

1. American Society for Engineering Education. 1994 – present.
 - Campus Representative, University of Michigan. Jun 2013 – Jun 2017.
 - Member, Frontiers in Education Steering Committee. Jul 2009 – Jun 2012.
 - Chair, Educational Research and Methods Division. Jul 2007 – Jun 2009.
 - Program Co-chair, *2006 ASEE Annual Conference & Exposition*. Jul 2004 – Jun 2006.
 - Program Co-chair, *33rd IEEE/ASEE Frontiers in Education Conference*. Jul 2002 – Nov 2003.
 - Director. Jul 2000 – Jun 2002.
 - New Engineering Educators Liaison. Jul 1999 – Jun 2001.
2. American Educational Research Association. 2005 – 2010.
3. Professional and Organizational Development in Higher Education Network. 2001 – 2009.

4. Institute of Electrical and Electronic Engineers. 1985 – 2009; 2016 – present.
5. IEEE Education Society. 1994 – 2009; 2016 – present.
 - o Senior member, 2017 – present

Institute committees and task forces (University of Michigan)

1. Higher Learning Commission Accreditation Working Group. May 2017 – present.
2. Academic Reporting Toolkit (ART) Steering Group. Feb 2015 – Sep 2015.
3. Search Committee, Director of Center for Research on Learning and Teaching. Jan 2015 – Jun 2015.
4. Collaborative Domain Group. Oct 2012 – May 2013.
5. Responsible Conduct of Research Task Force. Sep 2009 – Dec 2010.
6. Ethics in Public Life Task Force. Sep 2006 – Jul 2007.

School and department committees and task forces (University of Michigan)

1. Director, ECE Education Research Technical Area Group, ECE Division. Dec 2016 – Aug 2018.
2. Committee for an Inclusive Department, ECE Division. Sep 2016 – present.
3. ADVANCE Launch Committee for Joi Mondisa. Sep 2016 – present.
4. Education Committee, Michigan Institute for Computational Discovery & Engineering. Jun 2016 – present.
5. Engineering Education Research PhD Program Development Committee (Chair), College of Engineering. Oct 2015 – present.
6. Search Committee (Chair), Engineering Education Research Faculty, College of Engineering. Sep 2015 – present.
7. Undergraduate Academics Committee, ECE Division. Sep 2015 – present.
8. Information Technology Faculty Council, College of Engineering. Jan 2015 – present.
9. Research Advisory Committee, School of Education. Feb 2014 – present.
10. Faculty Advisory Committee, Center for Engineering Diversity and Outreach, College of Engineering. Jul 2010 – Dec 2012.
11. Faculty Advisory Board, Center for Research on Learning and Teaching in Engineering. Jan 2010 – Aug 2016.
12. Search Committee, Director of Center for Research on Learning and Teaching in Engineering. Feb 2016 to Jun 2016.
13. Faculty Steering Committee, Rackham Certificate in Engineering Education. Mar 2009 – present.
14. Academic Practices for a Positive Learning Environment, College of Engineering. Jan 2008 – May 2008.
15. Diversity and Outreach Council, College of Engineering. Jul 2005 – Jun 2010.
16. Strategic Planning Implementation Committee, College of Engineering. Nov 2003 – Dec 2004.
17. Engineering Teaching Academy, College of Engineering. May 2003 – Dec 2010.

Institute committees and task forces (Kettering University)

1. Center for Excellence in Teaching and Learning Advisory Board (Chair). Apr 2001 – Jul 2003.

2. Faculty Senate Committee on Thesis Learning Objectives. Sep 2002 – May 2003.
3. Faculty Development Strategic Planning Committee. Aug 2002 – Jan 2003.
4. Kettering Educators Encouraging Persistence, Executive Committee. Jul 2002 – May 2003.
5. Kettering University Alumni Association Rodes Professorship Selection Committee. Jun 2000, Jun 2002.
6. University Council (formerly Executive Council). Jan 2002 – Jan 2003.
7. Online Education Committee. Jan 2002 – Jan 2003.
8. Teaching and Learning Strategic Planning Committee. Dec 2001 – Jun 2002.
9. Faculty Gender Equity Task Force. Mar. 2001 – May 2002. (Chair: Dec 2001 – May 2002).
10. Teaching Fellows. May 2000 – May 2002.
11. Faculty Senate. Jan 1999 – Dec 2000 and Jan 1994 – Dec 1995.
12. Curriculum Reform Task Force. Jul 1998 – Dec 1999. (Chair: Jan 1999 – Dec 1999).
13. GMI Teaching Improvement Grant Review Committee. Apr 1997, Sep 1996, Feb 1996, Apr 1995.
14. GMI Research Initiation/Improvement Grant Review Committee. Apr 1995.
15. Academic Review Committee. Jan 1997 – Dec 1999.
16. Recruitment, Admission, Development and Review Committee. Jan 1997 – Dec 1999.
17. Research Proposal Task Force. Aug 1995 – Aug 1997.
18. Faculty Fair Treatment Task Force. Jan 1994 – Jul 1994.
19. Graduate Program Development and Review Committee. Jan 1993 – Dec 1995.
20. Women Faculty Task Force. Sep 1992 – Sep 1996. (Chair: Mar. 1994 – Jun 1995).

Department committees (Kettering University)

1. ECE Curriculum Committee. Jan 1994 – Dec 2000.
 - o ECE 230: *Signals and Systems* course coordinator: Jan 1997 – Apr 2003.
 - o ECE 210: *Circuits I* course coordinator: Jan 1995 – Dec 2000.
 - o ECE 211: *Circuits II* course coordinator: Jan 1995 – Dec 2000.
 - o ECE 310: *Circuits II* course coordinator: Jan 1995 – Dec 2000.
 - o ECE 412: *Digital Signal Processing* course coordinator: Jan 1995 – Dec 2001.
2. ECE Department Head Search Committee. Nov 1997 – Jul 1998.
3. ECE Faculty Search Committee. Nov 1996 – Dec 1997.
4. Biomedical Engineering Minor Committee. Jan 1999 – Jul 1999.
5. ECE Graduate Curriculum Committee. Jan 1993 – Dec 1997. (Chair: Jan 1993 – Dec 1995).

TEACHING

Short courses

1. *Leadership Virtual Community of Practice*. 10-session, online National Science Foundation course on evidence-based teaching practices and faculty development (co-taught with Karl A. Smith). 2012 and 2013.

2. *National Effective Teaching Institute*. 4-day, in-person, application-only workshop on effective teaching (co-taught with Rebecca Brent, Richard M. Felder, & Michael J. Prince).
 - Tampa, FL. 01/03/13 – 01/06/13.
 - San Antonio, TX. 06/06/12 – 06/09/12.

University courses (University of Michigan)

1. EECS 215. *Introduction to Electric Circuits* (3 credits). Winter 2016, Fall 2016, Winter 2017.
2. ENGR/CHE 580. *Teaching Engineering* (3 credits, co-taught with S. Montgomery, CHE). Fall 2015, Fall 2014.

Faculty learning communities (University of Michigan)

1. *Teaching Circle for Large Engineering Courses*. 4-session course for engineering faculty to learn about and apply evidence-based teaching in their large courses.
 - Fall 2011, pilot program with Chemical Engineering.
 - Winter 2012 (co-taught with Joanna Millunchick, Materials Science and Engineering).
 - Fall 2012.
 - Winter 2015 (co-taught with Joanna Millunchick, Materials Science and Engineering).
2. *Learning and doing engineering education research*
 - Fall 2013 (co-taught with Kerby Shedden, Center for Statistical Consultation and Research), four sessions.
 - Fall 2012, three sessions.
3. *Works-in-progress. Networking and data sharing for engineering education researchers*
 - Winter 2014, seven sessions.
 - May 2012, five sessions.
4. *Investigating Student Learning: Networking and data sharing for engineering grant recipients*
 - 2014-2015, five sessions.
 - 2013-2014, five sessions.
 - 2010-2011.

Faculty development workshops (University of Michigan) (listed in order of number of times delivered)

1. *Strategies for succeeding as a new engineering faculty member*, ten times. 2006 – 2014.
2. *Student teams in engineering*, ten times. 2004 – 2013.
3. *Ethics in engineering education*, seven times. 2006 – 2011.
4. *Investigating student learning*, seven times. 2008 – 2014.
5. *Best practices in undergraduate teaching*, six times. 2003 – 2010.
6. *Writing a successful NSF CAREER proposal*, six times. 2007 – 2012.
7. *Learning styles in the classroom*, three times. 2003, 2004, 2009.
8. *Learning and doing engineering education research*, two times. 2008 and 2010.
9. *Teaching portfolio*, two times. 2004 and 2006.
10. *Effective lecturing for large engineering classes*. 11/01/04.

11. *Teaching for retention in engineering*. 02/18/10.

University courses (Kettering University)

ENG 100: *Fundamentals of Problem Solving*

ECE 210: *Circuits I*

ECE 211: *Circuits I Lab*

ECE 230: *Signals and Systems*

ECE 303: *Electrical Engineering II Lab*

ECE 310: *Circuits II*

ECE 321: *Electronics I Lab*

ECE 322: *Electronics II Lab*

ECE 330: *Digital Signal Processing*

ECE 340: *Electromagnetic Fields I*

ECE 440: *Electromagnetic Fields II*

ECE 612: *Graduate Digital Signal Processing*

ADVISING FOR STUDENTS AND POSTDOCTORAL FELLOWS

Thesis committees (listed in reverse chronological order)

1. Rachel Vitali, Ph.D. Candidate, Mechanical Engineering. University of Michigan. Co-advisor, Sept 2016 – Aug 2019 (expected).
2. Michelle M. Soledad, Ph.D. Candidate, Engineering Education. Virginia Tech. Ph.D. Advisory Committee, Dec 2016 – May 2018 (expected).
3. R. Matthew DeMonbrun, Ph.D. Candidate, Higher Education. University of Michigan. Doctoral dissertation committee chair, Dec 2017 (expected). Preliminary proposal approved 1/30/17.
4. Robin R. Fowler, Ph.D., Educational Technology. *Talk in teams: Participation in and characteristics of team conversations face-to-face and in synchronous chat*. Michigan State University. Doctoral dissertation committee member, May 2014.
5. William Phillips, M. S., Design Science. University of Michigan. Dissertation committee co-chair, 2011.
6. Janel A. Sutkus, Ph. D., Higher Education. *An assessment of admissions strategy effects and self-selection issues in an enrollment study of Kettering University*. University of Michigan. Doctoral dissertation committee member, Jun 2008.
7. Cynthia P. Veenstra, Ph.D., Industrial and Operations Engineering. *Modeling engineering freshman success*. University of Michigan. Doctoral dissertation committee member, Dec 2007.

Faculty mentorship

1. Alex Coso-Strong, Assistant Professor, Olin College. ASEE Apprentice Faculty Grant mentor. June 2015 – present.
2. ECE new faculty. Monthly meetings, Aug 2016 to present.
3. ECE women faculty. Monthly meetings, May 2016 to present.
4. Core EER faculty. Monthly meetings, Sep 2016 to present.

Postdoctoral fellow mentorship (University of Michigan) (listed in reverse chronological order)

1. DeLean Tolbert, Ph.D., Jan 2017 – present.
2. Aaron W. Johnson, Ph.D., Electrical Engineering and Computer Science. June 2016 – present.
3. Laura J. Hirshfield, Ph.D., Chemical Engineering. Purdue University. Oct 2014 – Sep 2016.
4. Julianne Vernon, Ph.D., Environmental Engineering. University of Florida. Sep 2014 to Jun 2015.

5. Golnoosh Rasoulifar, Ph.D., Industrial Engineering. University of Grenoble, France. Feb 2014 – Dec 2014.
6. Shanna R. Daly, Ph.D., Engineering Education. Purdue University. Jan 2009 – Aug 2010.

Graduate student support through research grants (University of Michigan) (listed in reverse chronological order)

1. Trevion Henderson, Higher Education. Mar 2017 – present.
2. Rachel Vitali, Mechanical Engineering. Sep 2016 – present.
3. R. Matthew DeMonbrun, Higher Education. Dec 2013 – present.
4. Jessica Canas, Higher Education. May 2015 – present (Master's)
5. W. Ethan Eagle, Aerospace Engineering. Apr 2011 – Sep 2011.
6. Eunjong Ra, Higher Education. Sep 2010 – Dec 2011.
7. Brian A. Burt, Higher Education. Jul 2010 – Dec 2012.
8. Robert M. Bielby, Higher Education. Mar 2010 – May 2012.
9. Kelly Walczak, Higher Education. May 2009 – Dec 2010.
10. Matthew A. Holsapple, Higher Education. May 2008 – May 2012.
11. Janel A. Sutkus, Higher Education. Jun 2007 – Jun 2008.
12. Matthew J. Mayhew, Higher Education. Jun 2003 – Aug 2004.
13. Honor J. Passow, Higher Education. May 2003 – June 2005.

Undergraduate student support (University of Michigan) (listed in reverse chronological order)

1. Julia Kerst, Electrical Engineering and Computer Science. Summer Undergraduate Research Experience and Independent Study. June 2016 – Dec 2016.
2. Hanna Pfershy, Biomedical Engineering. Summer Undergraduate Research Experience and Independent Study. June 2016 – Dec 2016.
3. Charlotte L. Sawyer, Industrial and Operations Engineering. Summer Research Opportunity Program. Jun 2014 – Aug 2014.
4. Ameen B. Al-Khafaji, Electrical Engineering. Undergraduate Research Opportunity Program. Sep 2011 – May 2012.
5. Martha J. Neubauer, Chemical Engineering. Undergraduate Research Opportunity Program. Sep 2011 – May 2012.

Fifth-year thesis projects (Kettering University) (listed in reverse chronological order)

1. Eric D. Drews. *Vocoder identification through signature exploitation*. U.S. Government. Falls Church, VA. Jun 2003.
2. Michael A. Rowe. *Implementation of a windshield glass testing apparatus for a North American market study of automotive glass*. Robert Bosch Co. Farmington Hills, MI. Jun 2003.
3. Justin McCurdy. *Web-based teaching evaluations*. Kettering University MISC 499-01. Flint, MI. Fall 2002.
4. Angela M. Hamady. *Design and implementation of an electronic error-proofing system for a manufacturing assembly line*. GM: North American Car Group. Hamtramck, MI. Jun 2001.
5. Brian E. Rathgeb. *Hit avoidance testbed for sensor and countermeasure integration*. U.S. Army, Tank Auto

- Command. Warren, MI. Jun 2001.
6. David J. Kuder. *Design of a roll feed and cutter test fixture*. Xerox Engineering Systems. East Rochester, NY. Jun 2000.
 7. Thuong V. Huynh. *Investigating the feasibility of acoustic crash sensing*. TRW Safety Systems. Farmington Hills, MI. Jun 2000.
 8. Matthew J. Niese. *Engineering proposal to eliminate the 3.0L Vulcan V6 engine assembly hot test*. Ford Motor, Engine Division. Lima, OH. Jun 2000.
 9. Jon R. Jarvais. *Cylinder head assembly error proofing*. GM Power Train Group. Livonia, MI. Jun 1999.
 10. Peter M. Mosher, P. M. *Integration of radio frequency communications with Lamb Technicon machinery*. Lamb Technicon. Warren, MI. Jun 1999.
 11. Brenda J. Newlin, B. J. *Visual and aural data processing for electrical system automated test*. GM Mid-Lux Car Group Headquarters. Warren, MI. Jun 1999.
 12. Edmund K. Tse, E. K. *Dynamically integrated system communication operator*. GM Truck Group Headquarters. Pontiac, MI. Jun 1999.
 13. Zoltan Kovacs, Z. *Design, installation, and implementation of a supervisory control and acquisition system*. Modern Tool and Die. Cleveland, OH. Jun 1998.
 14. Mark D. Wagner. *H-electroslag remelt furnace level II human machine interface*. Carpenter Technology Corporation. Reading, PA. Jun 1998.
 15. Jason M. Dalton. *Evaluation of motion/position feedback devices*. Thyssen Production Systems. Auburn Hills, MI. Dec 1997.
 16. Kenneth M. Haas. *The talking photo album*. Eastman Kodak Company. Rochester, NY. Jun 1996.
 17. Trevor D. Johnson. *Design and development of a steering rate and direction sensor for automotive applications*. First Inertia Switch, Ltd. Grand Blanc, MI. Jun 1996.
 18. Scott M. Lima. *Microprocessor based system for electric fuel pump speed determination and control using armature current waveform pulses*. Universal Systems. Flint, MI. Jun 1996.
 19. Jamie T. Prescott. *Electrical test equipment for the enhanced audio climate control module*. Ford Electronics Manufacturing Corp. Markham, Ontario, Canada. Jun 1996.
 20. Judd R. Rowher. *P61-3, 4, 10 MET compatibility*. Sandia National Labs. Albuquerque, NM. Jun 1996.