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**CYNTHIA J. FINELLI**  
**CURRICULUM VITA**

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University of Michigan  
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Ann Arbor, MI 48109-2122

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## **ACADEMIC APPOINTMENTS**

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### **Positions at University of Michigan**

- Faculty appointments
  - Electrical Engineering & Computer Science
    - Associate Professor, Sep 2015 – present.
  - Education
    - Associate Professor (courtesy appointment), Sep 2016 – present.
    - Research Associate Professor (courtesy appointment), Mar 2015 – Aug 2016.
  - Engineering Education
    - Research Associate Professor (20% appointment). Sep 2010 to Aug 2015.
    - Associate Research Scientist, Engineering Education (20% appointment). Sep 2004 – Aug 2010.
- Administrative appointments
  - Engineering Education Research Program, College of Engineering
    - Director, Sep 2016 – present.
    - Graduate Chair, Jul 2017 – present.
  - Center for Research on Learning and Teaching in Engineering (CRLT-Engin, formerly CRLT North).
    - Faculty Director for Engineering Education Research, Sep 2015 – Aug 2016.
    - Founding Director, Nov 2003 – Aug 2015.
    - Coordinator of Engineering Education, 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.

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## EDUCATION

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- 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. Aug 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.

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## AWARDS AND HONORS (LISTED IN REVERSE CHRONOLOGICAL ORDER)

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1. *Senior Member*, Institute of Electrical and Electronics Engineers, 2017.
2. *Frontiers of Engineering Education Member*, National Academy of Engineering, 2016.
3. *Engineering Education Research "Pioneer"* ([depts.washington.edu/celtweb/pioneers-wp/?p=719](https://depts.washington.edu/celtweb/pioneers-wp/?p=719)), 2016.
4. *Helen Plants Best Special Session Award*, 44th ASEE/IEEE Frontiers in Education Conference, 2015.
5. *Best Paper Award*, ASEE Educational Research and Methods Division, 2015 ASEE Annual Conference & Exposition, 2015.
6. *Ronald J. Schmitz Award for Meritorious Service to the IEEE/ASEE Frontiers in Education Conference*, 2014.
7. *Campus Representative Award for Most New Professional Members in North Central Section*, ASEE, Jun 2014.
8. *Campus Representative Award for Highest Percentage of Faculty Membership in North Central Section*, ASEE, Jun 2014.
9. *Academy of Fellows Member*, American Society of Engineering Education, 2013.
10. *Maryellen Weimer Scholarly Work in Teaching and Learning Award*, Magna Publications, 2013.
11. *Fellow*, National Effective Teaching Institute, 2012 – 2013.
12. *Faculty Recognition Award for Outstanding Mentorship*, University of Michigan Undergraduate Research Opportunity Program, 2012.
13. *Distinguished Service Award*, ASEE Educational Research and Methods Division, 2010.
14. *Best Paper Award*, ASEE Professional Interest Council V, 2010 ASEE Annual Conference & Exposition, 2010.
15. *Premier Award for Engineering Education Courseware*, for the software *Comprehensive Assessment of Team Member Effectiveness (CATME) Instrument* ([www.catme.org](http://www.catme.org)), 2009.
16. *Best Paper Award*, ASEE Educational Research and Methods Division, 2003 ASEE Annual Conference & Exposition, 2003.
17. *Faculty Appreciation Award*, Sigma Chi Fraternity at Kettering University, 1996, 1998, 1999, 2001.
18. *Honorary Member Status*, Robot Society at Kettering University, 2000.
19. *Outstanding Chapter Advisor of the Year* for service to Theta Phi Alpha sorority, Kettering University, 1998 and 1999.
20. *Outstanding Teacher of the Year*, Kettering University Alumni Association (formerly GMI Engineering & Management Institute), 1997.
21. *Faculty of the Month*, GMI Greek Student Assembly, May 1995.
22. *Member*, Tau Beta Pi (engineering honor society), Inducted 1986.
23. *Member*, Eta Kappa Nu (electrical engineering honor society), Inducted 1985.

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## PRESENTATIONS AND PUBLICATIONS

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### 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

1. [IN REVIEW] **Finelli, C. J.**, & Froyd, J. E. (2018). Improving student learning in the engineering classroom. *Advances of Engineering Education*. **Invited manuscript**.
2. [REVISION IN REVIEW] Johnson, A. W., Blackburn, M. W.\*, Su, M. P.\*, & **Finelli, C. J.** (2018). How a flexible classroom affords active learning in electrical engineering. *IEEE Transactions on Education*.
3. [ACCEPTED FOR PUBLICATION] DeMonbrun, R. M., Cañas, J. C., & **Finelli, C. J.** (2018). Influencing changes in teaching: Addressing motivations and barriers to the adoption of evidence-based teaching practices in engineering. *Journal of Excellence in College Teaching*.
4. DeMonbrun, R. M., Kerst, J.\*, Pfershy, H.\*, & **Finelli, C. J.** (2018, Jul/Aug). The long-term impact of a faculty development program on student evaluations of teaching. *International Journal of Engineering Education*, 34(4), 1325-1334.
5. **Finelli, C. J.**, Nguyen, K. A., DeMonbrun, R. M., Borrego, M., Prince, M. J., Husman, J., Henderson, C., Shekhar, P., & Waters, C. K. (2018, May). Reducing student resistance to active learning: Strategies for instructors. *Journal of College Science Teaching*, 47(5), 80-91.
6. Tharayil, S. A., Borrego, M., Prince, M., Nguyen, K. A., Shekhar, P., **Finelli, C. J.**, & Waters, C. K. (2018). Strategies to mitigate student resistance to active learning. *International Journal of STEM Education*, 5(7), 1-16. DOI: 10.1186/s40594-018-0102-y
7. Shekhar, P., Prince, M. J., **Finelli, C. J.**, DeMonbrun, R. M., & Waters, C. K. (2018). Integrating quantitative and qualitative research methods to examine student resistance to active learning. *European Journal of Engineering Education*, 1-13. DOI: 10.1080/03043797.2018.1438988
8. DeMonbrun, R. M., **Finelli, C. J.**, Prince, M. J., Borrego, M., Shekhar, P., Henderson, C., & Waters, C. K. (2017, Apr). Creating an instrument to measure student response to instructional practices. *Journal of Engineering Education*, 106(2), 273-298. DOI: 10.1002/jee.20162.  
**Named one of the journal's top downloaded papers in 2018.**
9. Nguyen, K. A., Husman, J., Borrego, M., Shekhar, P., Prince, M. J., DeMonbrun, R. M., **Finelli, C. J.**, Henderson, C., & Waters, C. K. (2017, Jan/Feb). Students' expectations, types of instruction, and instructor strategies predicting student response to active learning. *International Journal of Engineering Education*, 33(1A), 2-18.
10. **Finelli, C. J.**, Borrego, M., & Rasoulifar, G. (2015, Oct). Special Report: Development of a taxonomy of keywords for engineering education research. *Journal of Engineering Education*, 104(4), 365-387. DOI: 10.1002/jee.20101. **Joint publication appearing simultaneously in five journals**
11. **Finelli, C. J.**, Borrego, M., & Rasoulifar, G. (2015, Nov). Special Report: Development of a taxonomy of keywords for engineering education research. *IEEE Transactions on Education*, 58(4), 219-241. DOI: 10.1002/jee.20101
12. **Finelli, C. J.**, Borrego, M., & Rasoulifar, G. (2016, Jan/Feb). Special Report: Development of a taxonomy of keywords for engineering education research. *International Journal of Engineering Education*, 32(1A), 2-18.

13. **Finelli, C. J.**, Borrego, M., & Rasoulifar, G. (2016, Feb). Special Report: Development of a taxonomy of keywords for engineering education research. *Australasian Journal of Engineering Education*, 21(1), 1-16. DOI: 10.1080/22054952.2015.1133215
14. **Finelli, C. J.**, Borrego, M., & Rasoulifar, G. (2016). Special Report: Development of a taxonomy of keywords for engineering education research. *European Journal of Engineering Education*, 41(3), 231-215. DOI: 10.1080/03043797.2016.1153045
15. 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.
16. **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*, 103(2), 331-361. DOI: 10.1002/jee.20042
17. 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
18. 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.
19. 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**
20. **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
21. 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
22. 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
23. Wright, M. C., **Finelli, C. J.**, & Meizlish, D. S. (2011, Mar/Apr). 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
24. 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.
25. **Finelli, C. J.**, Wright, M. C., & Pinder-Grover, T. (2010, May). Consulting the Delphi: A new idea for collecting student feedback through the Two-Survey Method. *Journal of Faculty Development*, 24(2), 25-33.
26. Mesa, V. M., Jaquette, O., & **Finelli, C. J.** (2009, Oct). 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
27. 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
28. **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

29. 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
30. 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
31. 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
32. 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
33. 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
34. **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
35. **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
36. **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
37. **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
38. 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. ISBN-978-1-5792-2479-0

### **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.

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

1. **Finelli, C. J.**, & Borrego, M. (2018, Apr). *Adoption of research-based instructional strategies in engineering and computer science* [White paper]. Proceedings of Levers for Change: Examining the State of Education Reform in STEM Disciplines Meeting, Chevy Chase, MD.
2. **Finelli, C. J.**, & Johnson, A. W. (2017, Nov). *Flexible classroom spaces at U-M: Pilot study results and future work*. Internal report for College of Engineering, Ann Arbor, MI.
3. Daly, S. R., & **Finelli, C. J.** (2012, Jun). *Internal report: Student engineering challenges as reported by advisors in the College of Engineering*, Ann Arbor, MI.
4. Daly, S. R., **Finelli, C. J.**, Al-Khafaji, A., & Neubauer, M. (2012, Jun). *Internal report: Student enrollment and success in the College of Engineering*, Ann Arbor, MI.
5. **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. 2 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](http://crlt.umich.edu/sites/default/files/resource_files/CRLT_no29.pdf)
6. 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](http://crlt.umich.edu/sites/default/files/resource_files/CRLT_no25.pdf)
7. 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 or symposium proceedings**

1. [ACCEPTED FOR PRESENTATION] Borrego, M., Nguyen, K., Crockett, C., DeMonbrun, M., Shekhar, P., Tharayil, S., **Finelli, C. J.**, Rosenberg, R., & Waters, C. K. (2018, Oct). Systematic literature review of students' affective responses to active learning: Overview of results. *Proceedings of 48<sup>th</sup> IEEE/ASEE Frontiers in Education Conference*, San Jose, CA.
2. [ACCEPTED FOR PRESENTATION] Henderson, T., **Finelli, C. J.**, Millunchick, J., Brennan-Wydra, E. (2018, Oct). Proactive behaviors in engineering: The role of pre-college characteristics, resources, and experiences. *Proceedings of 48<sup>th</sup> IEEE/ASEE Frontiers in Education Conference*, San Jose, CA.
3. [ACCEPTED FOR PRESENTATION] Vitali, R., Perkins, N., & **Finelli, C. J.** (2018, Oct). Comparing student performance on low-stakes and high-stakes evaluations of conceptual understanding. *Proceedings of 48<sup>th</sup> IEEE/ASEE Frontiers in Education Conference*, San Jose, CA.
4. Blackburn, M. W.\*, Johnson, A. W., & **Finelli, C. J.** (2018, Jun). Developing an observation protocol to categorize formative assessment in engineering courses. *Proceedings of 2018 ASEE Annual Conference & Exposition*, Salt Lake City, UT.
5. Bork, S., Wiwel, C.\*, Blackburn, M. W.\*, Johnson, A. W., & **Finelli, C. J.** (2018, Jun). Impact of flexible classroom spaces on instructor pedagogy and student behavior. *Proceedings of 2018 ASEE Annual Conference & Exposition*, Salt Lake City, UT.
6. Crockett, C., Nguyen, K. A., Shekhar, P., DeMonbrun, R. M., Tharayil, S., Rosenberg, R., Waters, C. K., Borrego, M., & **Finelli, C. J.** (2018, Jun). WIP: How do students respond to active learning? A coding guide for a systematic review of the literature. *Proceedings of 2018 ASEE Annual Conference & Exposition*, Salt Lake City, UT.
7. DeMonbrun, R. M., & **Finelli, C. J.** (2018, Jun). Impact of prior experiences on future participation in active learning. *Proceedings of 2018 ASEE Annual Conference & Exposition*, Salt Lake City, UT.
8. Henderson, T., **Finelli, C. J.**, & Millunchick, J. M. (2018, Jun). WIP: Undergraduate socialization in engineering: The role of institutional tactics and proactive behaviors. *Proceedings of 2018 ASEE Annual Conference & Exposition*, Salt Lake City, UT.

9. Phillips, J., **Finelli, C. J.**, Najafi, K., & Lattuca, L. R. (2018, Jun). WIP: Reinventing the undergraduate electrical engineering curriculum to address tomorrow's cross-disciplinary global challenges. *Proceedings of 2018 ASEE Annual Conference & Exposition*, Salt Lake City, UT.
10. Vitali, R., Perkins, N. C., & **Finelli, C. J.** (2018, Jun). Introduction and assessment of i-Newton for the engaged learning of engineering dynamics. *Proceedings of 2018 ASEE Annual Conference & Exposition*, Salt Lake City, UT.
11. Vitali, R., Perkins, N. C., & **Finelli, C. J.** (2018, Jun). Incorporating IMU technology to demonstrate concepts in undergraduate dynamics courses. *Proceedings of 2018 ASEE Annual Conference & Exposition*, Salt Lake City, UT.
12. Nguyen, K. A., DeMonbrun, R. M., Borrego, M., Husman, J., Prince, M. J., **Finelli, C. J.**, Shekhar, P., Henderson, C., & Waters, C. K. (2017, Jul). The tensions measuring instructional practices. *Proceedings of 2017 International Research in Engineering Education Symposium*, Bogota, Columbia.
13. Johnson, A. W., & **Finelli, C. J.** (2017, Jun). Responsive teaching in undergraduate engineering courses. *Proceedings of 2017 ASEE Annual Conference & Exposition*, Columbus, OH. DOI: 10.18260/1-2--28801
14. Kerst, J.\*, Pfershy, H.\*, DeMonbrun, R. M., & **Finelli, C. J.** (2017, Jun). Long-term impact of faculty development program on student evaluations of teaching. *Proceedings of 2017 ASEE Annual Conference & Exposition*, Columbus, OH. DOI: 10.18260/1-2--28632
15. Nguyen, K. A., DeMonbrun, R. M., Borrego, M., Prince, M. J., Husman, J., **Finelli, C. J.**, Shekhar, P., Henderson, C., & Waters, C. K. (2017, Jun). The variation of nontraditional teaching methods across 17 undergraduate engineering classrooms. *Proceedings of 2017 ASEE Annual Conference & Exposition*, Columbus, OH. DOI: 10.18260/1-2--29021
16. **Finelli, C. J.**, & Johnson, A. W. (2017, Apr). Work in Progress: Flipping the circuits classroom: The impact of pre-class reading and in-class active learning on student and instructor. *Proceedings of 2017 IEEE EDUCON Conference*, Athens, Greece. DOI: 10.1109/EDUCON.2017.7942883
17. Nguyen, K. A., Husman, J. E., Borrego, M. J., Shekhar, P., Prince, M. J., DeMonbrun, R. M., **Finelli, C. J.**, & Waters, C. K. (2017, Apr). Students' expectations, types of instruction, and instructor strategies: Predicting student response to active learning. *Proceedings of 2017 Annual Meeting of the American Educational Research Association*, Austin, TX.
18. Waters, C. K., Nguyen, K. A., Shekhar, P., Borrego, M., Prince, M. J., **Finelli, C. J.**, DeMonbrun, R. M., & Henderson, C. (2017, Mar). Implementation and faculty reflection of an instrument to measure student response to instructional practices. *Proceedings of 2017 ASEE Zone II Annual Conference*, San Juan, Puerto Rico.
19. 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. DOI: 10.18260/p.26047
20. 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. DOI: 10.18260/p.25696
21. 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. DOI: 10.18260/p.25481
22. **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. DOI: 10.18260/p.27313
23. **Finelli, C. J.** (2016, Apr). The Teaching Circle: Successfully promoting faculty adoption of evidence-based teaching practices. *Proceedings of 2016 American Association for the Advancement of Science (AAAS) Annual Conference*, Washington, DC.
24. Bates, R. A., Benson, L., Cheville, A., **Finelli, C. J.**, Karlin, J., & Lord, S. M. (2015, Oct). *Agents for STEM change – Articulating the goals of our community*. Special session at 45<sup>th</sup> IEEE/ASEE Frontiers in Education Conference, El Paso, TX. 10/23/15. DOI: 10.1109/FIE.2015.7344195
25. Pinder-Grover, T. A., **Finelli, C. J.**, Millunchick, J. M., & Moldwin, M. (2015, Oct). A faculty learning community to prompt critical reflection and improve practice. *Proceedings of 2015 Annual Professional and Organizational Development (POD) Conference*, San Francisco, CA.

26. 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 45<sup>th</sup> IEEE/ASEE Frontiers in Education Conference*, El Paso, TX. DOI: 10.1109/FIE.2015.7344290.
27. 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.
28. Hirshfield, L., 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. DOI: 10.18260/p.24665
29. Carpenter, D. D., Sutkus, J. A., **Finelli, C. J.**, Harding, T. S., Harris, R., & Cole, M. L. (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. DOI: 10.18260/p.23587
30. 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. DOI: 10.18260/p.24486
31. 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.
32. 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**
33. 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. DOI: 10.18260/p.24565
34. **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 44<sup>th</sup> IEEE/ASEE Frontiers in Education Conference*, Madrid, Spain. DOI: 10.1109/FIE.2014.7044084
35. Bates, R. A., Cheville, R. A., Karlin, J. N., Benson, L. C., **Finelli, C. J.**, & Lord, S. M. (2014, Oct). *Agents for STEM change – Articulating the goals of our community*. Special session at 44<sup>th</sup> 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**
36. 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, Oct). *Pursuing the frontiers: The history and future of the Frontiers in Education Conference*. Panel presentation at 44<sup>th</sup> IEEE/ASEE Frontiers in Education Conference, Madrid, Spain. 10/24/14. DOI: 10.1109/FIE.2014.7044187
37. Smith, K. A., & **Finelli, C. J.** (2014, Jun). *Preparing facilitators for virtual faculty development programs*. Special session at 2014 ASEE Annual Conference & Exposition, Indianapolis, IN. 06/16/14.
38. 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.
39. 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.
40. **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.
41. **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.
42. **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.



43. Harding, T. S., Carpenter, D. D., & **Finelli, C. J.** (2013, Jun). Two Years Later: A longitudinal look at the impact of engineering ethics education. *Proceedings of 2013 ASEE Annual Conference & Exposition*, Atlanta, GA.
44. Smith, K. A., & **Finelli, C. J.** (2013, Jun). *Faculty development through Virtual Communities of Practice (VCP)*. Special session at 2013 ASEE Annual Conference & Exposition, Atlanta, GA. 06/25/13.
45. 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.
46. 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. *Proceedings of 26<sup>th</sup> Annual Conference of the Association for the Study of Higher Education Conference*, Charlotte, NC.
47. 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.
48. **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.
49. 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.
50. 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.
51. 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.
52. 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
53. **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 2010 ASEE Annual Conference & Exposition*, Louisville, KY.
54. 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 2010 ASEE Annual Conference & Exposition*, Louisville, KY.
55. 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 2010 ASEE Annual Conference & Exposition*, Louisville, KY. **Winner of the Best Paper Award – ASEE Professional Interest Council V**
56. 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 2010 ASEE Annual Conference & Exposition*, Louisville, KY.
57. 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 Annual Conference*, Charleston, SC.
58. 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 39<sup>th</sup> IEEE/ASEE Frontiers in Education Conference*, San Antonio, TX. DOI: 10.1109/FIE.2009.5350613
59. Pawley, A. L., Riley, D., Harding, T. S., Lord, S. M., & **Finelli, C. J.** (2009, Oct). *From active learning to liberative*

*pedagogies: Alternative teaching philosophies in CSET education.* Special session at 39<sup>th</sup> IEEE/ASEE Frontiers in Education Conference, San Antonio, TX. 10/19/09. DOI: 10.1109/FIE.2009.5350559

60. 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.
61. **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.
62. 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.
63. 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 38<sup>th</sup> IEEE/ASEE Frontiers in Education Conference*, Saratoga, NY. DOI: 10.1109/FIE.2008.4720486
64. **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.
65. 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.
66. 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. *Proceedings of 2008 Annual Meeting of the American Educational Research Association*, New York, NY.
67. **Finelli, C. J.**, Harding, T. S., Carpenter, D. D., & Mayhew, M. J. (2007, Jun). Academic integrity among engineering undergraduates: Seven years of research by the E3 Team. *Proceedings of 2007 ASEE Annual Conference & Exposition*, Honolulu, HI.
68. Mayhew, M. J., Harding, T. S., **Finelli, C. J.**, & Carpenter, D. D. (2007, Apr). Examining the underlying motivations of undergraduates to behave unethically. *Proceedings of 2007 Annual Meeting of the American Educational Research Association*, Chicago, IL.
69. 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 36<sup>th</sup> IEEE/ASEE Frontiers in Education Conference*, San Diego, CA. DOI: 10.1109/FIE.2006.322672
70. **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.
71. 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.
72. 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.
73. 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.
74. 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 Annual Congress*, Omaha, NE. DOI: 10.1061/40856(200)341
75. 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 35<sup>th</sup> IEEE/ASEE Frontiers in Education Conference*, Indianapolis, IN. DOI: 10.1109/FIE.2005.1611895

76. **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 35<sup>th</sup> IEEE/ASEE Frontiers in Education Conference*, Indianapolis, IN. DOI: 10.1109/FIE.2005.1612013
77. 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 4<sup>th</sup> ASEE/Australasian Association for Engineering Education Global Colloquium on Engineering Education*, Sydney, Australia.
78. 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.
79. 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. *Proceedings of 2005 Annual Meeting of the American Educational Research Association*, Montréal, Québec, Canada.
80. 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. *Proceedings of 29<sup>th</sup> Annual Conference of the Association for the Study of Higher Education*, Kansas City, MO.
81. 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 34<sup>th</sup> IEEE/ASEE Frontiers in Education Conference*, Savannah, GA. DOI: 10.1109/FIE.2004.1408691
82. 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.
83. 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 33<sup>rd</sup> IEEE/ASEE Frontiers in Education Conference*, Boulder, CO. DOI: 10.1109/FIE.2003.1265933
84. **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**
85. **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. .
86. 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.
87. **Finelli, C. J.** (2001, Oct). Assessing improvement in students' team skills and using a learning style inventory to increase it. *Proceedings of 31<sup>st</sup> IEEE/ASEE Frontiers in Education Conference*, Reno, NV. DOI: 10.1109/FIE.2001.964023
88. 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.
89. Klinger, A., **Finelli, C. J.**, & Budny, D. D. (2000, Oct). Improving the classroom environment. *Proceedings of 30<sup>th</sup> IEEE/ASEE Frontiers in Education Conference*, Kansas City, MO. DOI: 10.1109/FIE.2000.897528
90. 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 30<sup>th</sup> IEEE/ASEE Frontiers in Education Conference*, Kansas City, MO. DOI: 10.1109/FIE.2000.897653
91. **Finelli, C. J.** (1999, Nov). A team-oriented, project-based freshman problem-solving course: Benefits of early exposure. *Proceedings of 29<sup>th</sup> IEEE/ASEE Frontiers in Education Conference*, San Juan, Puerto Rico. DOI: 10.1109/FIE.1999.839088
92. Rust, L. M., Palmer, K. I., & **Finelli, C. J.** (1999, Nov). Energized enigma. *Proceedings of 29<sup>th</sup> IEEE/ASEE Frontiers in Education Conference*, San Juan, Puerto Rico. DOI: 10.1109/FIE.1999.840479

93. Melton, D. E., **Finelli, C. J.**, & Rust, L. M. (1999, Nov). A digital signal processing laboratory with style. *Proceedings of 29<sup>th</sup> IEEE/ASEE Frontiers in Education Conference*, San Juan, Puerto Rico. DOI: 10.1109/FIE.1999.839074
94. **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 19<sup>th</sup> Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, Chicago, IL, 2212-2214. DOI: 10.1109/IEMBS.1997.758797
95. 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.
97. **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 Women in Engineering Annual Conference*, Washington, DC, 157-162.
98. **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
99. **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
100. **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
101. **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
102. **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
103. 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

### 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. *Presentation at 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. *Presentation 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. *Presentation at 2006 Annual Professional and Organizational Development (POD) 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. *Presentation 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. *Presentation at 2003 Ethics and Social Responsibility in Engineering and Technology Conference*, New Orleans, LA.
6. **Finelli, C. J.**, & Wicks, M. A. (1999, Jun). An assessment tool for the circuits sequence of an electrical engineering curriculum. *Presentation at 1999 ASEE Annual Conference & Exposition*, Charlotte, NC.
7. Rust, L. M., Palmer, K. I., & **Finelli, C. J.** (1998, Jun). Electrical escapades. *Presentation at 1998 ASEE Annual*

*Conference & Exposition, Seattle, WA.*

8. 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. *Presentation at Annual Society for Neuroscience Conference*, New Orleans, LA.
9. **Finelli, C. J.**, & Thompson, M. G. (1996, Apr). Integrating biomedical signal processing into the undergraduate curriculum. *Presentation at 1996 ASEE North Central Section Annual Conference*, Big Rapids, MI.
10. **Finelli, C. J.**, & Wicks, M. A. (1996, Apr). Assessment of student achievement and retention of electrical circuit concepts in a cooperative education program. *Presentation at 1996 ASEE North Central Section Annual Conference*, Big Rapids, MI.
11. **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.
12. **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. *Presentation at 15<sup>th</sup> Annual ISCE Conference on Computer Applications in Electrocardiology*, Virginia Beach, VA. *Journal of Electrocardiology* 23(Supplement 1), 209. DOI: 10.1016/0022-0736(90)90109-F
13. 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. *Presentation at 1998 Annual Conference of the American Pediatric Society and the Society for Pediatric Research*, New Orleans, LA.
14. Throne, R. D., Jenkins, J. M., Winston, S. A., **Mays (Finelli), C. J.**, & DiCarlo, L. A. (1989, May). Correlation waveform analysis of intraatrial electrograms: An accurate method for discriminating anterograde from retrograde atrial activation. *Presentation at 1989 Annual North American Society for Pacing and Electrophysiology Conference*, Toronto, Canada.
15. 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. *Presentation at Engineering Foundation Conference on Computerized Interpretation of the Electrocardiogram XIV*.

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

1. [ACCEPTED] Bernhard, J., Lima, R. M., Benson, L., Chance, S., Kautz, C., vanderVeen, J. T., vanPetegem, W., **Finelli, C. J.**, (2018, Sept). *Doctoral symposium in engineering education*. Invited workshop at 2018 Annual SEFI (European Society of Engineering Education) Conference, Copenhagen, Denmark. 9/19/18.
2. [ACCEPTED] Brunhaver, S., Carberry, A. R., London, J., Yasuhara, K., Allendoerfer, C., Atman, C., Case, J., **Finelli, C. J.**, McKenna, A., Newstetter, W., Sheppard, S., Smith, K., Turns, J., & Watsan, K. (2018). *Meet the engineering education pioneers*. Panel and Roundtable at 48th IEEE/ASEE Frontiers in Education Conference, San Jose, CA.
3. DesJardins, S., **Finelli, C. J.**, Hero, A., Mihalcea, R., & Teasley, S. (2018, May). *MIDAS Learning Analytics challenge symposium*. Invited panelist, University of Michigan. 05/18/18.
4. **Finelli, C. J.** (2018, Mar). *Overcoming barriers to using student-centered instruction: From research to practice*. Distinguished Lecture, College of Engineering, University of Illinois at Urbana-Champaign, Champaign, IL. 03/09/18.
5. **Finelli, C. J.** (2017, Dec). *Understanding and overcoming barriers to adoption of evidence-based teaching*. School of Education, University of Michigan, Ann Arbor, MI. 12/07/17.
6. Ohland, M., **Finelli, C. J.**, Riley, D., McKenna, A., Abrams, L., Ragusa, G., Imbrie, P.K. (2017, Jun). *Engineering education research: Purpose, impact, and future*. ASEE Dean's Council panel at 2017 ASEE Annual Conference & Exposition, Columbus, OH. 06/27/17.
7. **Finelli, C. J.** (2017, Apr). *Understanding and overcoming student resistance and other barriers to faculty's use of active learning*. University of Pittsburgh, Pittsburgh, PA. 04/06/17.
8. **Finelli, C. J.** (2017, Mar). *Student resistance and other obstacles to adoption of active learning: Understanding and overcoming them*. Clemson, University, Clemson, SC. 03/31/17.

9. **Finelli, C. J.** (2016, Nov). *Integrating theory and local data to improve teaching*. REBUILD, University of Michigan, Ann Arbor, MI. 11/01/16.
10. Bauer, C., **Finelli, C. J.**, Guzdial, M., Kussmaul, C., Pullin, M., Searls, M., Whitmeyer, S., & Ziegenfuss, D. (2016, Apr). *Building a faculty development toolbox*. American Association for the Advancement of Science (AAAS)'s Conference, Washington, DC. 04/27/16.
11. **Finelli, C. J.** (2015, Sep). *Promoting faculty adoption of effective teaching practices*. Iowa State University, Ames, IA. 09/24/15.
12. **Finelli, C. J.** (2015, Mar). *Perspectives and priorities in STEM higher education research*. Plenary Discussion, Uppsala University, Uppsala, Sweden. 03/17/15.
13. **Finelli, C. J.** (2015, Mar). *Promoting faculty adoption of effective teaching practices*. Purdue University, West Lafayette, IN. 03/05/15.
14. 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, Apr). *Integrating theory and local data to inform action: The Teaching Circle*. Invited participant for presidential panel at 2014 Annual Meeting of the American Educational Research Association, Philadelphia, PA. 04/06/14.
15. **Finelli, C. J.** (2014, Mar). *Factors influencing faculty adoption of effective teaching practices*. Virginia Polytechnic Institute and State University, Blacksburg, VA. 03/28/14.
16. **Finelli, C. J.** (2013, Jun). *The line between innovation, technology, and moral standards* [radio interview]. National Public Radio's Stateside with Cynthia Canty. Ann Arbor, MI: Michigan Radio. 06/12/13.  
[michiganradio.org/post/line-between-innovation-technology-and-moral-standards](http://michiganradio.org/post/line-between-innovation-technology-and-moral-standards)
17. **Finelli, C. J.** (2009, Apr). *Educating ethical engineers*. University Lecture Series, Carnegie Mellon University, Pittsburgh, PA. 04/01/09.
18. **Finelli, C. J.** (2007, Oct). *Academic integrity among engineering undergraduates*. University of Texas, Austin, TX. 10/29/07.
19. **Finelli, C. J.** (2004, Jan). *Learning styles and their implications for teaching*. Invited workshop, Lawrence Technological University, Southfield, MI. 01/08/04.
20. **Finelli, C. J.** (2000, Apr). *Promoting active learning using cooperative learning techniques*. Invited Workshop at 2000 North East Regional ASEE Annual Conference, Lowell, MA. 04/28/00.
21. Jenkins, J. M., **Finelli, C. J.**, DiCarlo, L. A., & Greenhut, S. E. (1990, Nov). *Implantable defibrillation and external pace technology*. Invited presentation at Midyear Meeting & Exposition, Association for the Advancement of Medical Instrumentation/Michigan Society for Clinical Engineering, Dearborn, MI. 11/04/90.

### Workshops at national conferences

1. [ACCEPTED] Benson, L., & **Finelli, C. J.** (2018, Sep). *Increase the impact of your journal publications*. Workshop at 2018 Annual SEFI (European Society of Engineering Education) Conference, Copenhagen, Denmark. 9/20/18.
2. [ACCEPTED] Edström, K., Bernhard, J., vandenBogaard, M. E. D., Benson, L., **Finelli, C. J.**, Chance, S., Lyng, R. (2018, Sep). *Reviewers, reviewers, reviewers!* Workshop at 2018 Annual SEFI (European Society of Engineering Education) Conference, Copenhagen, Denmark. 9/21/18.
3. Benson, L., Borrego, M., & **Finelli, C. J.**, (2018, Jun). *Achieving broader impacts through your journal publications*. Workshop at 2018 ASEE Annual Conference & Exposition, Salt Lake City, UT. 6/24/18.
4. Atman, C. J., Eschenbach, E., **Finelli, C. J.**, Imbrie, P. K., Lord, S., McKenna, A., Richards, L. G., Shuman, L., & Smith, K. A. (2017, Oct). *Reviewing the past, predicting the future*. Workshop at 47<sup>th</sup> IEEE/ASEE Frontiers in Education Conference, Indianapolis, IN.
5. Benson, L., Borrego, M., & **Finelli, C. J.** (2017, Oct). *Increase the impact of your journal publications*. Workshop at National Science Foundation Engineering Education Grantees Conference, Washington, DC.

6. **Finelli, C. J.**, Kotys-Schwartz, D., & Zappe, S. (2016, Jun). *Introduction to engineering education research*. Workshop at 2016 ASEE Annual Conference & Exposition, New Orleans, LA. 06/26/16.
7. **Finelli, C. J.**, & Rasoulifar, G. (2014, Oct). *Using and disseminating a taxonomy for engineering education research*. Workshop at 44<sup>th</sup> IEEE/ASEE Frontiers in Education Conference, Madrid, Spain. 10/22/14. DOI: 10.1109/FIE.2014.7043989
8. **Finelli, C. J.** (2013, Oct). *Refining a taxonomy for engineering education research*. Workshop at 43<sup>rd</sup> IEEE/ASEE Frontiers in Education Conference, Oklahoma City, OK. 10/23/13. DOI: 10.1109/FIE.2013.6684779
9. **Finelli, C. J.** (2013, Jul). *Refining a taxonomy for engineering education research*. Workshop at 2013 International Research in Engineering Education Symposium, Kuala Lumpur, Malaysia, 07/06/13. DOI: 10.1109/FIE.2013.6684779
10. **Finelli, C. J.**, & Borrego, M. (2013, Jun). *Refining a taxonomy for engineering education research*. Workshop at 2013 ASEE Annual Conference & Exposition, Atlanta, GA. 06/23/13. DOI: 10.1109/FIE.2013.6684779
11. **Finelli, C. J.**, Carpenter, D. D., Harding, T. S., & Sutkus, J. A. (2012, Jun). *An exploration of the ethical development of engineering undergraduates*. Workshop at 2012 ASEE Annual Conference & Exposition, San Antonio, TX. 06/10/12.
12. **Finelli, C. J.**, & Harding, T. S. (2011, Oct). *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, Oct). *An exploration of the ethical development of engineering undergraduates*. Workshop at 41<sup>st</sup> IEEE/ASEE Frontiers in Education Conference, Rapid City, SD. 10/21/11. DOI: 10.1109/FIE.2011.6142939
14. **Finelli, C. J.**, & Bates, R. (2011, Mar). *Building value propositions for engineering education*. Invited workshop at National Science Foundation Engineering Education Grantees Conference, Reston, VA. 03/05/11.
15. Litzinger, T. A., **Finelli, C. J.**, Atman, C. J., Fortenberry, N. L., & Griffin, H. O. (2009, Jun). *Engineering education centers and academic units*. Workshop at 2009 ASEE Annual Conference & Exposition, Austin, TX. 06/15/09.
16. Harding, T. S., Carpenter, D. D., & **Finelli, C. J.** (2009, Feb). *Ethics education or ethical development?* Invited workshop at National Science Foundation Engineering Education Grantees Conference, Reston, VA. 02/02/09.
17. Harding, T. S., **Finelli, C. J.**, & Carpenter, D. D. (2008, Jun). *Ethics education or ethical development: What is the best goal for engineering education?* Workshop at 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, Jun). *Engineering education centers and departments as drivers of change*. Workshop at 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, Jun). *Conducting peer evaluations using the comprehensive assessment of team member effectiveness*. Workshop at 2006 ASEE Annual Conference & Exposition, Chicago, IL. 06/18/06.

### Other publications (Poster presentations and non-refereed proceedings)

1. Blackburn, M.\*, Bork, S., Wiwel, C.\*, Johnson, A. W., & **Finelli, C. J.** (2018, Mar). *Impact of flexible classroom spaces on instructor pedagogy and student behavior*. Poster at 2018 U-M CRLT-Engin Annual Research and Scholarship in Engineering Education Poster Fair, Ann Arbor, MI.
2. Henderson, T. S., Brennan-Wydra, E., Millunchick, J., & **Finelli, C. J.** (2018, Mar). *Undergraduate Socialization in Engineering: The role of institutional tactics and proactive behaviors*. Poster at 2018 U-M CRLT-Engin Annual Research and Scholarship in Engineering Education Poster Fair, Ann Arbor, MI.
3. Crockett, C., & **Finelli, C. J.** (2018, Mar). *A systematic literature review: How do students respond to active learning?* Poster at 2018 U-M CRLT-Engin Annual Research and Scholarship in Engineering Education Poster Fair, Ann Arbor, MI.
4. Vitali, R., Perkins, N., & **Finelli, C. J.** (2018, Mar). *Introduction and assessment of iNewton for the engaged learning of engineering dynamics*. Poster at 2018 U-M CRLT-Engin Annual Research and Scholarship in Engineering Education Poster Fair, Ann Arbor, MI.

5. DeMonbrun, R. M., & **Finelli, C.** (2017, Mar). *Development of a survey instrument to measure student response to instructional practices*. Poster at 2017 U-M CRLT-Engin Annual Research and Scholarship in Engineering Education Poster Fair, Ann Arbor, MI.
6. Johnson, A. W., & **Finelli, C. J.** (2017, Mar). *A seven-course classroom: Different uses of a flexible classroom space*. Poster at 2017 U-M CRLT-Engin Annual Research and Scholarship in Engineering Education Poster Fair, Ann Arbor, MI.
7. Steiner, A.\*, Hirshfield, L., **Finelli, C. J.**, & Chachra, D. (2016, Apr). *Investigating task choice in first-year engineering team projects*. Poster at 2016 U-M CRLT-Engin Annual Research and Scholarship in Engineering Education Poster Fair, Ann Arbor, MI.
8. **Finelli, C. J.** (2016, Apr). *Motivating change in faculty teaching practices to support a diverse student body in engineering*. Presentation at National Science Foundation Engineering Education Grantees Conference, Washington, DC.
9. **Finelli, C. J.**, DeMonbrun, R. M., Borrego, M. J., & Shekhar, P. (2015, Mar). *Development of a survey instrument to measure students' resistance to active learning*. Poster at 2015 U-M CRLT-Engin Annual Research and Scholarship in Engineering Education Poster Fair, Ann Arbor, MI.
10. Hirshfield, L., Chachra, D., & **Finelli, C. J.** (2015, Mar). *Relating project tasks to engineering confidence and self-efficacy*. Poster at 2015 U-M CRLT-Engin Annual Research and Scholarship in Engineering Education Poster Fair, Ann Arbor, MI.
11. Vernon, J., **Finelli, C. J.**, Perkins, N. & Orr, B. (2015, Mar). *Piloting i-Newton for the experiential learning of dynamics*. Poster at 2015 U-M CRLT-Engin Annual Research and Scholarship in Engineering Education Poster Fair, Ann Arbor, MI.
12. Richardson, K. M., **Finelli, C. J.**, & Daly, S. R. (2013, Mar). *Effective teaching practices: Engineering faculty's motivation to adopt them*. Poster at 2013 U-M CRLT-Engin Annual Research and Scholarship in Engineering Education Poster Fair, Ann Arbor, MI.
13. Richardson, K. M., **Finelli, C. J.**, & Daly, S. R. (2013, Jan). *Faculty motivation to use effective teaching practices*. Poster at National Science Foundation Engineering Education Grantees Conference, Washington, DC.
14. **Finelli, C. J.** (2012, May). *Consultations on teaching: Benefits for engineering faculty*. Poster at CRLT Gallery of U-M Teaching Innovations, Ann Arbor, MI.
16. **Finelli, C. J.**, Carpenter, D. D., & Harding, T. S. (2012, Feb). *Collaborative research: A holistic assessment of the ethical development of engineering undergraduates*. Poster at National Science Foundation Engineering Education Grantees Conference, Arlington, VA.
17. Al-Khafaji, A. B.\*, Neubauer, M. J.\*, Daly, S. R., & **Finelli, C. J.** (2012, Feb). *Cultivating the classroom: Student perspectives of faculty classroom practices*. Poster at 2015 U-M CRLT-Engin Annual Research and Scholarship in Engineering Education Poster Fair, Ann Arbor, MI.
18. Bielby, R. M., Carpenter, D. D., **Finelli, C. J.**, Harding, T. S., Sutkus, J. A., Burt, B. A., & Holsapple, M. A. (2012, Feb). *Impact of different curricular approaches to ethics on positive ethical behavior*. Poster at 2012 U-M CRLT-Engin Annual Research and Scholarship in Engineering Education Poster Fair, Ann Arbor, MI.
19. Burt, B. A., Carpenter, D. D., Holsapple, M. A., **Finelli, C. J.**, Bielby, R. M., Sutkus, J. A., & Harding, T. S. (2012, Feb). *Co-curricular experiences: Bridging the disconnect between the classroom and ethics instruction*. Poster at 2012 U-M CRLT-Engin Annual Research and Scholarship in Engineering Education Poster Fair, Ann Arbor, MI.
20. Holsapple, M. A., **Finelli, C. J.**, Bielby, R. M., Burt, B. A., Carpenter, D. D., Harding, T. S., & Sutkus, J. A. (2012, Feb). *Student engagement in ethics education: Quantity and quality*. Poster at 2012 U-M CRLT-Engin Annual Research and Scholarship in Engineering Education Poster Fair, Ann Arbor, MI.
21. **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 National Science Foundation Engineering Education Grantees Conference, Reston, VA.



22. Bielby, R. M., **Finelli, C. J.**, Harding, T. S., Carpenter, D. D., Sutkus, J. A., Burt, B. A., Ra, E., & Holsapple, M. A. (2011, Feb). *Impact of different curricular approaches to ethics*. Poster at 2011 U-M CRLT-Engin Annual Research and Scholarship in Engineering Education Poster Fair, Ann Arbor, MI.
23. Burt, B. A., Carpenter, D. D., **Finelli, C. J.**, Harding, T. S., Sutkus, J. A., Holsapple, M. A., Bielby, R. M., & Ra, E. (2011, Feb). *Outcomes of engaging engineering undergraduates in co-curricular experiences*. Poster at 2011 U-M CRLT-Engin Annual Research and Scholarship in Engineering Education Poster Fair, Ann Arbor, MI.
24. Holsapple, M. A., Sutkus, J. A., **Finelli, C. J.**, Carpenter, D. D., Burt, B. A., Ra, E., Harding, T. S., & Bielby, R. M. (2011, Feb). *We can't get no satisfaction! Ethical reasoning and satisfaction with ethics education*. Poster at 2011 U-M CRLT-Engin Annual Research and Scholarship in Engineering Education Poster Fair, Ann Arbor, MI.
25. Ra, E., **Finelli, C. J.**, Holsapple, M. A., Bielby, R. M., Burt, B. A., Carpenter, D. D., Harding, T. S., & Sutkus, J. A. (2011, Feb). *Relationships between engineering students' curricular and co-curricular experiences and their ethical development*. Poster at 2011 U-M CRLT-Engin Annual Research and Scholarship in Engineering Education Poster Fair, Ann Arbor, MI.
26. **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 National Science Foundation Engineering Education Grantees Conference, Reston, VA.
27. Holsapple, M. A., Sutkus, J. A., **Finelli, C. J.**, Carpenter, D. D., Harding, T. S., & Walczak, K. (2009, Oct.). *Development and testing of a survey to measure ethics education experiences and outcomes*. Poster at 2011 U-M CRLT-Engin Annual Research and Scholarship in Engineering Education Poster Fair, Ann Arbor, MI.
28. Walczak, K., **Finelli, C. J.**, Holsapple, M. A., Harding, T. S., Carpenter, D. D., & Sutkus, J. A., (2009, Oct.) *Institutional barriers to integrating ethics education into the undergraduate engineering curriculum*. Poster at 2009 U-M CRLT-Engin Annual Research and Scholarship in Engineering Education Poster Fair, Ann Arbor, MI.
29. **Finelli, C. J.**, Kendall-Brown, M. (2009, Oct). *Using an interactive theater sketch to improve students' ability to function on diverse teams*. Poster at 2009 U-M CRLT-Engin Annual Research and Scholarship in Engineering Education Poster Fair, Ann Arbor, MI.
30. Holsapple, M. A. & **Finelli, C. J.** (2009, May). *Culture of professional ethics education in schools of engineering: Implications for all students*. Presentation at 2009 U-M Student Affairs Research Symposium, Ann Arbor, MI. 05/12/09.
31. 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 National Science Foundation Engineering Education Grantees Conference, Reston, VA.
32. **Finelli, C. J.**, Ott, M., Gottfried, A. C., Hershock, C., O'Neal, C., & Kaplan, M. (2008, Oct.). *Consultations on teaching – Benefits for engineering faculty*. Poster at 2008 U-M CRLT-Engin Annual Research and Scholarship in Engineering Education Poster Fair, Ann Arbor, MI.
33. Mesa, V., **Finelli, C. J.**, & Jaquette, O. (2008, Oct.). *Measuring the impact of an individual course on students' success*. Poster at 2008 U-M CRLT-Engin Annual Research and Scholarship in Engineering Education Poster Fair. Ann Arbor, MI.
34. **Finelli, C. J.**, Ott, M., Gottfried, A. C., Hershock, C., O'Neal, C., & Kaplan, M. (2008, Sept.). *Consultations informed by different kinds of data: The impact on engineering faculty's teaching*. Poster at U-M Medical School Poster Fair and Walking Dinner, Ann Arbor, MI.
35. Harding, T. S., **Finelli, C. J.**, Carpenter, D. D., & Mayhew, M. J. (2007, Nov). *Factors influencing moral development in professional education*. Roundtable discussion at 33<sup>rd</sup> Annual Conference of the Association for Moral Education, New York, NY.
36. **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 E<sup>3</sup> Team*. Poster at National Science Foundation Engineering Education Grantees Conference, Arlington, VA.
37. **Finelli, C. J.**, Harding, T. S., Carpenter, D. D., & Sutkus, J. A. (2007, Oct). *Academic integrity among engineering undergraduates: Seven years of research by the E<sup>3</sup> team*. Poster at 2007 U-M CRLT-Engin Annual Research and Scholarship in Engineering Education Poster Fair. Ann Arbor, MI.

38. **Finelli, C. J.**, Gottfried, A., Kaplan, M., Mesa, V., O'Neal, C., & Piontek, M. (2006, Oct). *Evaluating methods to improve teaching in engineering*. Poster at 2006 U-M CRLT-Engin Annual Research and Scholarship in Engineering Education Poster Fair. Ann Arbor, MI.
39. Harding, T. S., **Finelli, C. J.**, & Carpenter, D. D. (2006, Oct). *Cheating in college and its influence on ethical behavior in the workplace*. Poster at 2006 U-M CRLT-Engin Annual Research and Scholarship in Engineering Education Poster Fair. Ann Arbor, MI.
40. 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 National Science Foundation Engineering Education Grantees Conference, Washington, DC.
41. **Finelli, C. J.** (1992, Oct). *The time-sequenced adaptive filter for linear prediction of the intraventricular electrogram*. Poster at 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.** *A systematic review of the literature on how students respond to active learning*. National Science Foundation – Improving Undergraduate STEM Education (IUSE) Program. Award # DUE-1744407, total: \$99,739, Finelli's share: \$77,138. 11/15/17 – 11/14/19.
2. **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, total: \$300,000, Finelli's share: \$300,000. 06/01/17 – 05/31/19.
3. 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, total: \$299,992, Finelli's share: \$149,996. 09/15/16 – 08/31/19.
4. 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, total: \$150,000, Finelli's share: \$63,248. 09/01/16 – 08/31/19.

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

1. Phillips, J. D., & **Finelli, C. J.** *Research Initiation: Early, integrative, societally-relevant curricula to prepare electrical engineers to address tomorrow's cross-disciplinary global challenges*. National Science Foundation – Professional Formation of Engineers, Research Initiation in Engineering Formation (RIEF). Proposal #EEC 1830773, total: \$200,000, Finelli's share: \$83,869. 09/01/18 – 08/31/20. Submitted 02/22/18.
2. **Finelli, C. J.** *Collaborative Research: Reducing student resistance to active learning: Applying research results to faculty development*. National Science Foundation – Improving Undergraduate STEM Education (IUSE) Program. Proposal # DUE-1821488, total: \$1,999,627, Finelli's share: \$690,086. 06/01/18 – 05/30/22. Submitted 12/12/17.

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

1. **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, total: \$500,000, Finelli's share: \$156,323. 09/15/13 – 08/31/17.
2. 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.
3. **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, total, \$200,000, Finelli’s share: \$86,656. 04/15/12 – 03/31/16.
4. **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, total: \$239,353, Finelli’s share: \$239,353. 09/15/10 – 09/30/15.
  5. **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, total: \$139,601, Finelli’s share: \$139,601. 10/01/14 – 09/30/15.
  6. **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.
  7. **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, total: \$233,178, Finelli’s share: \$233,178. 09/15/12 – 12/31/14.
  8. 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.
  9. 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.
  10. **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 Research on Ethics in Public Life Program. \$5,190, 01/01/08 – 05/30/08.
  11. **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, total: \$850,803, Finelli’s share: \$548,181. 03/01/07 – 02/28/13.
  12. **Finelli, C. J.** *Evaluating methods to improve teaching in engineering.* Rigorous Research in Engineering Education Minigrant Program, \$3,000. 10/15/05.
  13. 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.
  14. 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.
  15. 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, total: \$644,590, Finelli’s share: \$33,596. 06/01/03 – 05/30/07.
  16. Svinarich, K. A., Doty, S. L., & **Finelli, C. J.** *Effects of aminooxyacetate 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.
  17. **Finelli, C. J., Svinarich, K. A., & Doty, S. L.** *Time-course analysis of the electroretinogram.* Kettering University Rodes Professorship Award, \$5000. 05/01/98.
  18. **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.
  19. **Finelli, C. J.** Kettering University Teaching Improvement Grant, \$1,000. 06/01/97.
  20. 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.

21. **Finelli, C. J.** GMI Engineering & Management Institute Teaching Improvement Grant, \$1,000. 04/01/95.
22. **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.
23. **Finelli, C. J., & Jenkins, J. M.** *Adaptive filtering techniques applied to arrhythmia analysis.* The University of Michigan Rackham Research Partnership Fellowship, \$22,000. 1991.
24. **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.
  - *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, National Science Foundation workshop *Impact Framework for Engineering Education Research & Innovations (IFEERI) Workshop*. Mesa, AZ. 02/05/18 – 02/06/18.
2. Invited participant, American Association for the Advancement of Science workshop *Levers for Change*. Bethesda, MD. 05/07/18 – 05/08/18.
3. Invited participant, *ASCN Summer Leadership Institutes Planning Meeting*. Austin, TX. 06/21/16 – 06/23/16.
4. Invited participant, National Science Foundation workshop *How Many Hats Do You Wear? Building Research Capacity for STEM Faculty Development*. Clemson, SC. 02/16/17–02/18/17.
5. Invited participant, National Science Foundation / American Association for the Advancement of Science (AAAS) workshop *Research integration of early findings from institution transformation projects*. Washington, DC. 04/29/16-04/20/16.
6. Invited participant, *Denise Denton Emerging Leaders Workshop*. Madison, WI. 06/03/16.

7. 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.
8. Invited participant, National Science Foundation workshop *Role of centers for teaching and learning in Improvement of undergraduate engineering education*. Arlington, VA. 07/01/10 – 07/02/10.
9. Invited participant, National Science Foundation workshop *Creating engineering education opportunities: Why and how?* Washington, DC. 03/06/09.
10. Invited participant, *Engineering Education Research Colloquy 2*. Indianapolis, IN. 10/18/05 – 10/19/05.
11. Invited participant, National Science Foundation workshop *Rigorous research in engineering education*. Golden, CO. 08/01/05 – 08/05/05.
12. Invited participant, National Science Foundation workshop *Digital Signal Processing and Applications*. Bristol, RI. 08/12/96 – 08/16/96.
13. Invited participant, *IEEE/EMBS International Summer School on Biomedical Signal Processing*, Siena, Italy. 07/23/95 – 07/30/95.
14. Invited participant, *National Effective Teaching Institute*, Champaign-Urbana IL. 06/24/93 – 06/26/93.

### **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, Ohio State University. 01/17/17 – 08/31/20.
4. *Investigating entrepreneurship education as a means to developing the 21<sup>st</sup> 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. Sekaquaptewa, 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 21<sup>st</sup> 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.
  - o Campus Representative, University of Michigan. Jun 2013 – May 2017.
  - o Member, IEEE Frontiers in Education Steering Committee. Jul 2009 – Jun 2012.
  - o Chair, Educational Research and Methods Division. Jul 2007 – Jun 2009.
  - o Program Co-chair, *2006 ASEE Annual Conference & Exposition*. Jul 2004 – Jun 2006.

- Program Co-chair, *33<sup>rd</sup> 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. Member, 2005 – 2010.
  3. Engineering Education Chairs and Heads Association, ASEE. Chair, 2017 – present.
  4. European Society for Engineering Education. Member, 2018 – present.
  5. Professional and Organizational Development in Higher Education (POD) Network. 2001 – 2009.
  6. Institute of Electrical and Electronic Engineers.
    - Member, 1985 – 2009; 2016 – 2017.
    - Senior member, 2017 – present.
    - Member of IEEE Education Society, 1994 – 2009; 2016 – present.

### **Institute and college committees and task forces (University of Michigan)**

1. ADVANCE Launch Committee member for:
  - Barbara Ericson, School of Information. Member, Sept 2018 – May 2019.
  - Joi Mondisa. College of Engineering. Member, Sep 2016 – May 2018.
2. Education Committee, Michigan Institute for Computational Discovery & Engineering, University of Michigan. Member, Jun 2016 – present.
3. Information Technology – Faculty Council, College of Engineering. Member, Jan 2015 – present.
4. Faculty Steering Committee, Rackham Certificate in Engineering Education. Member, Mar 2009 – present.
5. Search Committee, Engineering Education Research Faculty, College of Engineering. Chair, Sep 2015 – Oct 2017.
6. Higher Learning Commission Accreditation Working Group, University of Michigan. Member, May 2017 – Aug 2017.
7. Engineering Education Research Graduate Program Development Committee, College of Engineering. Chair, Oct 2015 – Jun 2017.
8. Research Advisory Committee, School of Education. Member, Feb 2014 – Dec 2016.
9. Faculty Advisory Board, Center for Research on Learning and Teaching in Engineering, College of Engineering. Member, Jan 2010 – Aug 2016.
10. Search Committee, Director of Center for Research on Learning and Teaching in Engineering, College of Engineering. Member, Feb 2016 – Jun 2016.
11. Academic Reporting Toolkit (ART) Steering Group, University of Michigan. Member, Feb 2015 – Sep 2015.
12. Search Committee, Director of Center for Research on Learning and Teaching, University of Michigan. Member, Jan 2015 – Jun 2015.
13. Collaborative Domain Group, University of Michigan. Member, Oct 2012 – May 2013.
14. Faculty Advisory Committee, Center for Engineering Diversity and Outreach, College of Engineering. Member, Jul 2010 – Dec 2012.
15. Engineering Teaching Academy, College of Engineering. Member, May 2003 – Dec 2010.
16. Responsible Conduct of Research Task Force, University of Michigan. Member, Sep 2009 – Dec 2010.
17. Diversity and Outreach Council, College of Engineering. Member, Jul 2005 – Jun 2010.
18. Academic Practices for a Positive Learning Environment, College of Engineering. Member, Jan 2008 – May 2008.
19. Ethics in Public Life Task Force. University of Michigan. Member, Sep 2006 – Jul 2007.

20. Strategic Planning Implementation Committee, College of Engineering. Member, Nov 2003 – Dec 2004.

### **Department committees and task forces (University of Michigan)**

1. Executive Committee, ECE Division. Member, Sep 2018 – Aug 2020.
2. ECE Education Research Technical Area Group, ECE Division. Director, Dec 2016 – Aug 2018.
3. Committee for an Inclusive Department, ECE Division. Member, Sep 2016 – present.
4. Undergraduate Academics Committee, ECE Division. Member, Sep 2015 – present.

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

### **Department committees (Kettering University)**

1. ECE Curriculum Committee. Member, Jan 1994 – Dec 2000.
  - o ECE 230: *Signals and Systems* course coordinator, Jan 1997 – Apr 2003.

- ECE 210: *Circuits I* course coordinator, Jan 1995 – Dec 2000.
  - ECE 211: *Circuits II* course coordinator, Jan 1995 – Dec 2000.
  - ECE 310: *Circuits II* course coordinator, Jan 1995 – Dec 2000.
  - ECE 412: *Digital Signal Processing* course coordinator, Jan 1995 – Dec 2001.
2. ECE Department Head Search Committee. Member, Nov 1997 – Jul 1998.
  3. ECE Faculty Search Committee. Member, Nov 1996 – Dec 1997.
  4. Biomedical Engineering Minor Committee. Member, Jan 1999 – Jul 1999.
  5. ECE Graduate Curriculum Committee.
    - Member, Jan 1993 – Dec 1997.
    - Chair, Jan 1993 – Dec 1995.

## TEACHING

### University courses (University of Michigan)

1. EER 601: *Foundations of Engineering Education Research* (3 credits). Fall 2018.
2. EECS 216: *Introduction to Signals & Systems* (3 credits). Winter 2018.
3. EECS 215. *Introduction to Electric Circuits* (3 credits). Winter 2016, Fall 2016, Winter 2017, Fall 2017.
4. ENGR 580. *Teaching Engineering* (3 credits, co-taught with S. Montgomery, CHE). Fall 2015, Fall 2014.

### 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.

### 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, four sessions.

### **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. Vitali, Rachel – Ph.D. Candidate, Mechanical Engineering. University of Michigan. Doctoral dissertation committee co-chair, Graduation: Aug 2019 (expected). *Rachel was awarded the ASME Graduate Teaching Fellowship for 2018-2019.*
2. DeMonbrun, Matthew – Ph.D. Candidate, Higher Education. University of Michigan. Doctoral dissertation committee chair, Graduation: Aug 2018 (expected). Preliminary proposal approved 1/30/17.
3. Soledad, Michelle M. – Ph.D. Candidate, Engineering Education. *Understanding the learning experience in fundamental engineering courses*. Virginia Tech. Ph.D. Doctoral dissertation committee member, Graduation: May 2019 (expected).
4. Fowler, Robin R. – 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, Graduation: May 2014.
5. Phillips, William – M.S., Design Science. *The development of a grounded theory of learning in the interdisciplinary creative teams – An investigation of SmartSurfaces*. University of Michigan. Dissertation committee co-chair, Graduation: 2011.

6. Sutkus, Janel A. – 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, Graduation: Jun 2008.
7. Veenstra, Cynthia P. – Ph.D., Industrial and Operations Engineering. *Modeling engineering freshman success*. University of Michigan. Doctoral dissertation committee member, Graduation: Dec 2007.

### **Faculty mentorship**

1. Coso-Strong, Alex – Assistant Professor, Olin College. ASEE Apprentice Faculty Grant mentor. Jun 2015 – present.
2. ECE new faculty. Monthly meetings, Aug 2016 – Aug 2017.
3. ECE women faculty. Monthly meetings, May 2016 – present.

### **Postdoctoral fellow mentorship (listed in reverse chronological order)**

1. Swenson, Jessica. Aug 2018 – present.
2. Johnson, Aaron W. Jun 2016 – present.
3. Hirshfield, Laura J. Oct 2014 – Sep 2016.
4. Vernon, Julianne. Sep 2014 – Jun 2015.
5. Rasoulifar, Golnoosh. Feb 2014 – Dec 2014.
6. Daly, Shanna R. Jan 2009 – Aug 2010.

### **Graduate student research assistants (listed in reverse chronological order)**

1. Brennan-Wydra, Emma – Masters's student, School of Information, Dec 2017 – present.
2. Bork, Sarah – Ph.D. student, Electrical Engineering and Computer Science, Sep 2017 – present.
3. Crockett, Caroline – Ph.D. student, Electrical Engineering and Computer Science. Sep 2017 – present.
4. Henderson, Trevion – Ph.D. student, Higher Education, Mar 2017 – present.
5. Vitali, Rachel – Ph.D. student, Mechanical Engineering, Sep 2016 – present.
6. DeMonbrun, Matthew – Ph.D. student, Higher Education, Dec 2013 – present.
7. Cañas, Jessica – Master's student, Higher Education, May 2015 – Sep 2016.
8. Bielby, Robert M. – Master's student, Higher Education, Mar 2010 – May 2012.
9. Holsapple, Matthew A. – Ph.D. student, Higher Education, May 2008 – May 2012.
10. Burt, Brian A. – Ph.D. student, Higher Education, Jul 2010 – Dec 2012.
11. Ra, Eunjong – Ph.D. student, Higher Education, Sep 2010 – Dec 2011.
12. Eagle, W. Ethan – Ph.D. student, Aerospace Engineering, Apr 2011 – Sep 2011.
13. Walczak, Kelly – Ph.D. student, Higher Education, May 2009 – Dec 2010.
14. Sutkus, Janel A. – Ph.D. student, Higher Education, Jun 2007 – Jun 2008.
15. Passow, Honor J. – Ph.D. student, Higher Education, May 2003 – Jun 2005.
16. Mayhew, Matthew J. – Ph.D. student, Higher Education, Jun 2003 – Aug 2004.

### **Undergraduate student research assistants (listed in reverse chronological order)**

1. Wiwel, Candace – Naval Architecture and Marine Engineering (UROP). Sept. 2017 – present.

2. Blackburn, Max – Electrical Engineering and Computer Science (SURE and Independent Study). Jun 2017 – present.
3. Su, Magel – Materials Science and Engineering (Independent Study). May 2017 – Aug 2017.
4. Kerst, Julia – Electrical Engineering and Computer Science (SURE and Independent Study). Jun 2016 – Dec 2016.
5. Pfershy, Hanna – Biomedical Engineering (SURE and Independent Study). Jun 2016 – Dec 2016.
6. Sawyer, Charlotte L. – Industrial and Operations Engineering (SURE). Jun 2014 – Aug 2014.
7. Al-Khafaji, Ameen B. – Electrical Engineering (UROP). Sep 2011 – May 2012.
8. Neubauer, Martha J. – Chemical Engineering (UROP). Sep 2011 – May 2012.

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

1. Drews, Eric D. *Vocoder identification through signature exploitation*. U.S. Government. Falls Church, VA. Jun 2003.
2. Rowe, Michael A. *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. McCurdy, Justin. *Web-based teaching evaluations*. Kettering University MISC 499-01. Flint, MI. Fall 2002.
4. Hamady, Angela M. *Design and implementation of an electronic error-proofing system for a manufacturing assembly line*. GM: North American Car Group. Hamtramck, MI. Jun 2001.
5. Rathgeb, Brian E. *Hit avoidance testbed for sensor and countermeasure integration*. U.S. Army, Tank Auto Command. Warren, MI. Jun 2001.
6. Kuder, David J. *Design of a roll feed and cutter test fixture*. Xerox Engineering Systems. East Rochester, NY. Jun 2000.
7. Huynh, Thuong V. *Investigating the feasibility of acoustic crash sensing*. TRW Safety Systems. Farmington Hills, MI. Jun 2000.
8. Niese, Matthew J. *Engineering proposal to eliminate the 3.0L Vulcan V6 engine assembly hot test*. Ford Motor, Engine Division. Lima, OH. Jun 2000.
9. Jarvais, Jon R. *Cylinder head assembly error proofing*. GM Power Train Group. Livonia, MI. Jun 1999.
10. Mosher, Peter. M. *Integration of radio frequency communications with Lamb Technicon machinery*. Lamb Technicon. Warren, MI. Jun 1999.
11. Newlin, Brenda J. *Visual and aural data processing for electrical system automated test*. GM Mid-Lux Car Group Headquarters. Warren, MI. Jun 1999.
12. Tse, Edmund K. *Dynamically integrated system communication operator*. GM Truck Group Headquarters. Pontiac, MI. Jun 1999.
13. Kovacs, Zoltan. *Design, installation, and implementation of a supervisory control and acquisition system*. Modern Tool and Die. Cleveland, OH. Jun 1998.
14. Wagner, Mark D. *H-electroslag remelt furnace level II human machine interface*. Carpenter Technology Corporation. Reading, PA. Jun 1998.
15. Dalton, Jason M. *Evaluation of motion/position feedback devices*. Thyssen Production Systems. Auburn Hills, MI. Dec 1997.
16. Haas, Kenneth M. *The talking photo album*. Eastman Kodak Company. Rochester, NY. Jun 1996.
17. Johnson, Trevor D. *Design and development of a steering rate and direction sensor for automotive applications*. First Inertia Switch, Ltd. Grand Blanc, MI. Jun 1996.
18. Lima, Scott M. *Microprocessor based system for electric fuel pump speed determination and control using armature current waveform pulses*. Universal Systems. Flint, MI. Jun 1996.
19. Prescott, Jamie T. *Electrical test equipment for the enhanced audio climate control module*. Ford Electronics Manufacturing Corp. Markham, Ontario, Canada. Jun 1996.

20. Rowher, Judd R. *P61-3, 4, 10 MET compatibility*. Sandia National Labs. Albuquerque, NM. Jun 1996.