
CYNTHIA J. FINELLI
CURRICULUM VITA

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ACADEMIC APPOINTMENTS

Positions at University of Michigan

- Faculty appointments
 - Electrical Engineering & Computer Science
 - Professor, Sep 2019 – present.
 - Associate Professor, Sep 2015 – Aug 2019.
 - Education
 - Professor (courtesy appointment), Sep 2019 – present.
 - Associate Professor (courtesy appointment), Sep 2016 – Aug 2019.
 - Research Associate Professor (courtesy appointment), Mar 2015 – Aug 2016.
 - Engineering Education
 - Research Associate Professor (20% appointment), Sep 2010 – 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.

EDUCATION

- Ph.D., Electrical Engineering: Systems. University of Michigan, Ann Arbor, MI. May 1993.
Doctoral thesis: *A signal modeling method for analysis of cardiac arrhythmia in intraventricular electrograms.*
 - M.S.E., Electrical Engineering: Systems. University of Michigan, Ann Arbor, MI. 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)

- 2021** *Fellow*, Institute of Electrical and Electronics Engineers
EECS Department Outstanding Achievement Award, University of Michigan
North Campus Deans' MLK Spirit Awards, faculty recipient, University of Michigan
- 2019** *Creativity, Innovation, and Daring Incentive Award*, University of Michigan College of Engineering
- 2017** *Senior Member*, Institute of Electrical and Electronics Engineers
- 2016** *Frontiers of Engineering Education member*, National Academy of Engineering.
Engineering Education Research "Pioneer" (depts.washington.edu/celtweb/pioneers-wp/?p=719)
Helen Plants Best Special Session Award, IEEE/ASEE Frontiers in Education Conference
- 2015** *Best Paper Award*, ASEE Educational Research and Methods Division, ASEE Annual Conference & Exposition
- 2014** *Ronald J. Schmitz Award for Meritorious Service to the IEEE/ASEE Frontiers in Education Conference*
Campus Representative Award for Most New Professional Members in North Central Section, ASEE
Campus Representative Award for Highest Percentage of Faculty Membership in North Central Section, ASEE
- 2013** *Fellow*, American Society of Engineering Education
Maryellen Weimer Scholarly Work in Teaching and Learning Award, Magna Publications
Fellow, National Effective Teaching Institute
- 2012** *Faculty Recognition Award for Outstanding Mentorship*, University of Michigan Undergraduate Research Opportunity Program
- 2010** *Distinguished Service Award*, ASEE Educational Research and Methods Division
Best Paper Award, ASEE Professional Interest Council V, 2010 ASEE Annual Conference & Exposition.
- 2009** *Premier Award for Engineering Education Courseware*, for the software *Comprehensive Assessment of Team Member Effectiveness (CATME) Instrument* (www.catme.org)
- 2003** *Best Paper Award*, ASEE Educational Research and Methods Division, ASEE Annual Conference & Exposition
- 2001** *Faculty Appreciation Award*, Sigma Chi Fraternity at Kettering University
- 2000** *Honorary Member Status*, Robot Society at Kettering University
- 1999** *Outstanding Chapter Advisor of the Year* for service to Theta Phi Alpha sorority, Kettering University
Faculty Appreciation Award, Sigma Chi Fraternity at Kettering University
- 1998** *Outstanding Chapter Advisor of the Year* for service to Theta Phi Alpha sorority, Kettering University
Faculty Appreciation Award, Sigma Chi Fraternity at Kettering University
- 1997** *Outstanding Teacher of the Year*, Kettering University Alumni Association (formerly GMI Engineering & Management Institute)
- 1996** *Faculty Appreciation Award*, Sigma Chi Fraternity at Kettering University
- 1995** *Faculty of the Month*, GMI Greek Student Assembly

1986 Tau Beta Pi (engineering honor society)

1985 Eta Kappa Nu (electrical engineering honor society)

PRESENTATIONS AND PUBLICATIONS

Postdoctoral fellow co-authors double underlined, graduate student co-authors underlined,

*undergraduate co-authors indicated by asterisk

Invited keynote addresses (listed in reverse chronological order)

1. **Finelli, C. J.** (2020). *In pursuit of active learning: Challenges, insights, and opportunities*. Virtual keynote address at International Conference on Active Learning in Engineering Education (PAEE/ALE 2020), Pattaya, Thailand, 08/27/20.
2. **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.
3. **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.
4. **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] Carroll, L., **Finelli, C. J.**, Prince, M., Graham, M., Andrews, M., Husman, J., & Borrego, M. *An analysis of an instructional development workshop to promote the adoption of active learning in STEM: Potential implications for faculty developers*. Submitted to Journal of Research in Science Teaching, 03/10/21.
2. Nguyen, K. A., Borrego, M., **Finelli, C. J.**, DeMonbrun, M., Crockett, C., Tharayil, S., Shekhar, P., Waters, C., Rosenberg, R. (2021). Instructor strategies for implementing active learning: A systematic literature review. *International Journal of STEM Education* 12/02/20, 8(1), 9. DOI: 10.1186/s40594-021-00270-7 [Available as open access](#)
3. Brennan-Wydra, E., Henderson, T., Johnson, A. W., Millunchick, J. M., & **Finelli, C. J.** (2021). The role of college knowledge and proactive behavior on participation in co-curricular activities. *Journal of Engineering Education*, 110(1), 114-142. DOI: 10.1002/jee.20380
4. Crockett, C., **Finelli, C. J.**, DeMonbrun, M., Nguyen, K., Tharayil, S., Shekhar, P., & Rosenberg R. (2021). Common characteristics of high-quality papers studying student response to active learning. *International Journal of Engineering Education*, 37(2), 420-432.
5. Johnson, A. W., Su, M. P.*, Blackburn, M. W.*, & **Finelli, C. J.** (2020). Instructor use of a flexible classroom to facilitate active learning in undergraduate engineering courses. *European Journal of Engineering Education*. 1-19. DOI: 10.1080/03043797.2020.1865878 [Available as open access](#)
6. Andrews, M. E., Graham, M., Prince, M. J., Borrego, M., **Finelli, C. J.**, & Husman, J. (2020). Student resistance to active learning: Do instructors (mostly) get it wrong? *Australasian Journal of Engineering Education*, 25(2), 142-153. DOI: 10.1080/22054952.2020.1861771
7. Shekhar, P., Borrego, M., DeMonbrun, M., **Finelli, C. J.**, Crockett, C., & Nguyen, K. (2020, Jul/Aug). Negative student responses to active learning in STEM classrooms: A systematic review of underlying reasons. *Journal of College Science Teaching*, 49(6), 45-54.
8. Brennan-Wydra, E., Millunchick, J. M., Henderson, T., Johnson, A. W., & **Finelli, C. J.** (2020 Jul/Aug). Investigating the adaptation of socialization processes scales in engineering education context. *International Journal of Engineering Education*, 36(4), 1383-1395.
9. **Finelli, C. J.**, & Froyd, J. E. (2019, Spring). Improving student learning in undergraduate engineering education by improving teaching and assessment. *Advances of Engineering Education*, 1-30. [Available as open access](#)

10. Johnson, A.W., Blackburn, M. W.*, Su, M. P.*, & **Finelli, C. J.** (2019). How a flexible classroom affords active learning in electrical engineering. *IEEE Transactions on Education*, 62(2), 91-98. DOI: 10.1109/TE.2018.2867447
11. DeMonbrun, R. M., Cañas, J. C., & **Finelli, C. J.** (2019). Influencing changes in teaching: Addressing motivations and barriers to the adoption of evidence-based teaching practices in engineering. *Journal of Excellence in College Teaching*, 30(1), 101-125.
12. Shekhar, P., Prince, M. J., **Finelli, C. J.**, DeMonbrun, R. M., & Waters, C. K. (2019). Integrating quantitative and qualitative research methods to examine student resistance to active learning. *European Journal of Engineering Education*, 44(1), 6-18. DOI: 10.1080/03043797.2018.1438988 [Available as open access](#)
13. DeMonbrun, R. M., Kerst, J.*, Pfershy, H.*, & **Finelli, C. J.** (2018). The long-term impact of a faculty development program on student evaluations of teaching. *International Journal of Engineering Education*, 34(4), 1325-1334.
14. **Finelli, C. J.**, Nguyen, K. A., DeMonbrun, R. M., Borrego, M., Prince, M. J., Husman, J., Henderson, C., Shekhar, P., & Waters, C. K. (2018). Reducing student resistance to active learning: Strategies for instructors. *Journal of College Science Teaching*, 47(5), 80-91.
15. 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
16. 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. [Available as open access.](#)
17. 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.
18. **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
 - **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
 - **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.
 - **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
 - **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
19. 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.
20. **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
21. 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

22. 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.
23. 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**
24. **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
25. 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
26. 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
27. 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
28. 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.
29. **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.
30. 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
31. 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
32. **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
33. 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
34. 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
35. 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
36. 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
37. 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
38. **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

39. **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
40. **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
41. **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
42. 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

Books and book chapters

1. **Finelli, C. J., & Borrego, M. J.** (2020). Evidence-based strategies to reduce student resistance to active learning. In J. J. Mintzes & E. M. Walter (Eds.), *Active learning in college science: The case for evidence-based practice*. pp. 943-952. Cham, Switzerland: Springer Nature.
2. **Finelli, C. J., & Borrego, M.** (2019). Adoption of research-based instructional strategies in engineering and computer science. In S. Laursen (Ed.), *Lever for change: An assessment of progress on changing STEM instruction*. pp. 69-79. Washington, DC: American Association for the Advancement of Science. Available online: <https://www.aaas.org/resources/levers-change-assessment-progress-changing-stem-instruction>
3. 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
4. **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. Benson, L., Finelli, C., Kellam, M., & Zappe, S. (2020, Jul). Editorial: Trying times. *Journal of Engineering Education*, 109(3), 351-352.
2. 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
3. **Finelli, C. J.** (2008, Nov). A way to enhance teaching. Invited essay for Journal of Engineering Selects series. *ASEE Prism Magazine*, 61.
4. 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., Johnson, A. W., & Swenson, J.** (2019, Aug). *Flexible classroom spaces in CoE: Recommendations from our three-year study*. Internal report for College of Engineering, Ann Arbor, MI.
2. **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.
3. **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.

4. Daly, S. R., & **Finelli, C. J.** (2012, Jun). *Student engineering challenges as reported by advisors in the College of Engineering*, Internal report for College of Engineering, Ann Arbor, MI.
5. Daly, S. R., **Finelli, C. J.**, Al-Khafaji, A., & Neubauer, M. (2012, Jun). *Student enrollment and success in the College of Engineering*, Internal report for College of Engineering, Ann Arbor, MI.
6. **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. Ann Arbor, MI: Center for Research on Learning and Teaching, University of Michigan. Available online: crlt.umich.edu/sites/default/files/resource_files/CRLT_no29.pdf
7. 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
8. 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. [SUBMITTED] Crockett, C. E., & **Finelli, C. J.** (2021, June). *Factors influencing conceptual understanding in a signals and systems course*. Abstract submitted to the 2021 ASEE Annual Conference & Exposition.
2. [SUBMITTED] Marlor, L. K., Carroll, L., & **Finelli, C. J.** (2021, June). *Active learning in online STEM courses*. Abstract submitted to the 2021 ASEE Annual Conference & Exposition.
3. [SUBMITTED] Marlor, L. K., Carroll, L., & **Finelli, C. J.** (2021, June). *Barriers faculty encounter when using active learning in an online classroom setting*. Abstract submitted to the 2021 ASEE Annual Conference & Exposition.
4. [SUBMITTED] Carroll, L., & **Finelli, C. J.** (2021, June). *Work in Progress: College students with ADHD: A framework for studying the role of precollege factors and teaching practices on academic success*. Abstract submitted to the 2021 ASEE Annual Conference & Exposition.
5. Crockett, C. E., Powell, H., & **Finelli, C. J.** (2020, Jun). Work in Progress: A longitudinal study of students' conceptual understanding of signals and systems. *Proceedings of the 2020 ASEE Annual Conference & Exposition* (virtual conference).
6. Marlor, L. K., **Finelli, C. J.**, Andrews, M. E., Bermudez, B., Borrego, M., Carroll, L., Derosia, N. M., Graham, M. C., Husman, J., & Prince, M. J. (2020, Jun). Reducing student resistance to active learning: Applying research results to faculty development. *Proceedings of the 2020 ASEE Annual Conference & Exposition* (virtual conference).
7. Husman, J. E., Graham, M. C., Borrego, M. J., **Finelli, C. J.**, Prince, M. J., & Bermudez, B. (2020, Apr). *Reducing student resistance to active learning: Development and validation of a measure [Roundtable]*. Accepted for presentation at 2020 American Educational Research Association (AERA) Annual Conference, San Francisco, CA (conference cancelled due to COVID-19).
8. **Finelli, C. J.**, & Mondisa, J. L. (2019, Oct). An innovative graduate course in engineering education research: How well does it meet course goals? *Proceedings of the 49th IEEE/ASEE Frontiers in Education Conference*, Cincinnati, OH.
9. **Finelli, C. J.**, Carroll, L., Prince, M. J., & Husman, J. (2019, Jul). Promoting adoption of active learning and use of strategies to reduce student resistance to active learning. *Proceedings of 2019 International Research in Engineering Education Symposium*, Cape Town, South Africa.
10. Johnson, A.W., Swenson, J., Blackburn, M. W.*, & **Finelli, C. J.** (2019, Jun). Instructor use of movable furniture and technology in flexible classroom spaces. *Proceedings of 2019 ASEE Annual Conference & Exposition*, Tampa, FL.
11. Johnson, A.W., Swenson, J., Blackburn, M. W.*, & **Finelli, C. J.** (2019, Jun) Responsive teaching during question-initiated dialogue in undergraduate engineering courses. *Proceedings of 2019 ASEE Annual Conference & Exposition*, Tampa, FL.

12. Brennan-Wydra, E., Henderson, T., Johnson, A. W., Millunchick, J. M., & **Finelli, C. J.** (2019, Jun). The influence of background characteristics on socialization processes in engineering. *Proceedings of 2019 ASEE Annual Conference & Exposition*, Tampa, FL.
13. Wiwel, C.*, Johnson, A.W., Swenson, J., Blackburn, M. W.*, & Finelli, C. J. (2019, Jun). Out-of-class impacts of flexible classroom spaces. *Proceedings of 2019 ASEE Annual Conference & Exposition*, Tampa, FL.
14. Vitali, R., Perkins, N., & **Finelli, C. J.** (2019, Jun). Continued assessment of i-Newton for the engaged learning of engineering dynamics. *Proceedings of 2019 ASEE Annual Conference & Exposition*, Tampa, FL.
15. 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 48th IEEE/ASEE Frontiers in Education Conference*, San Jose, CA.
16. 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 48th IEEE/ASEE Frontiers in Education Conference*, San Jose, CA.
17. Vitali, R., Perkins, N., & **Finelli, C. J.** (2018, Oct). Comparing student performance on low-stakes and high-stakes evaluations of conceptual understanding. *Proceedings of 48th IEEE/ASEE Frontiers in Education Conference*, San Jose, CA.
18. 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.
19. 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.
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115. **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
116. 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.** (2016, Jan). The Teaching Circle: Successfully promoting faculty adoption of evidence-based teaching practices. *Presentation at 2016 National Science Foundation CCLI Grantees Conference*, Arlington, VA.
4. **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.
5. 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.
6. 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.
7. **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.
8. Rust, L. M., Palmer, K. I., & **Finelli, C. J.** (1998, Jun). Electrical escapades. *Presentation at 1998 ASEE Annual Conference & Exposition*, Seattle, WA.
9. Svinarich, K. A., Doty, S. L., **Finelli, C. J.**, Arnold, J. J., & Winkler, B. S. (1997, Oct). An evaluation of the role of aspartate aminotransaminase in rat photoreceptors. *Presentation at Annual Society for Neuroscience Conference*, New Orleans, LA.
10. **Finelli, C. J.**, & Thompson, M. G. (1996, Apr). Integrating biomedical signal processing into the undergraduate curriculum. *Presentation at 1996 ASEE North Central Section Annual Conference*, Big Rapids, MI.
11. **Finelli, C. J.**, & Wicks, M. A. (1996, Apr). Assessment of student achievement and retention of electrical circuit concepts in a cooperative education program. *Presentation at 1996 ASEE North Central Section Annual Conference*, Big Rapids, MI.

12. **Finelli, C. J.**, DiCarlo, L. A., Jenkins, J. M., & Li, P. (1991, Sep). Increased heart rate and sympathetic tone: Impact on correlation waveform, area of difference, and electrogram amplitude analyses. *Poster at IEEE 1991 Computers in Cardiology Conference*, Venice, Italy.
13. **Finelli, C. J.**, Throne, R. D., Antoniadis, N., Jenkins, J. M., Winston, S. A., & DiCarlo, L. A. (1990, Apr). Impact of increased heart rate alone and heart rate plus contractility upon intraventricular ECG morphology. *Presentation at 15th 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
14. Meliones, J. N., **Mays (Finelli), C. J.**, Dick, M., Jenkins, J. M., Blevins, M.*, & Armstrong, B. (1989, May). Computer analysis of the dynamic relationship between RR and QT interval in infants. *Presentation at 1998 Annual Conference of the American Pediatric Society and the Society for Pediatric Research*, New Orleans, LA.
15. 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.
16. DiCarlo, L. A., Jenkins, J. M., Throne, R. D., **Mays (Finelli), C. J.**, & Lin, D. (1989, Apr). Classification of arrhythmias using atrial and ventricular endocardial electrograms. *Presentation at Engineering Foundation Conference on Computerized Interpretation of the Electrocardiogram XIV*.

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

1. **Finelli, C. J.** (2021, Feb). *Active learning in the STEM classroom: Overcoming barriers and planning for action*. Texas A&M University. 02/26/21.
2. Chambers, T., Finelli, C. J., & Perkins, N. (2021). *Enhancing remote teaching in engineering – Lessons learned from Fall 2020*. Symposium on Engineering Teaching and Learning, University of Michigan. Invited panelist. 01/11/21.
3. Brunhaver, S., Carberry, A., Benson, L. C., Brent, R., Case, J., Felder, R. M., Finelli, C. J., Lord, S. M., Loui, M. C., McKenna, A. F., Newstetter, W., Ohland, M. W., Paretto, M. C., Smith, K. A., Watford, B. A., & Williams, B. (2020). *Meet faculty in the field of engineering education: Virtual community meetup*. Invited panelist. 11/04/20.
4. **Finelli, C. J.** (2020, Oct). *Active learning in the STEM classroom: Overcoming barriers and planning for action*. Worcester Polytechnic Institute. 10/28/20.
5. Bernhard, J., De Laet, T., Edström, K., van den Bogaard, M., Benson, L., Chance, S., **Finelli, C. J.**, Gardner, A., Kolmos, A., Langie, G., Lima, R., Pozzo, M., Strobel, E., Tormey, R., van Petegem, W., & Ventura-Medina, E. (2020, Sep). *SEFI doctoral symposium in engineering education*. Invited “senior EER scholar,” virtual conference. 9/20/20.
6. **Finelli, C. J.** (2020, Mar). *Student resistance to active learning: Insights and opportunities*. KTH Royal Institute of Technology, Stockholm, Sweden. 03/05/20.
7. **Finelli, C. J.** (2020, Feb). *Student resistance to active learning*. Purdue University. 02/17/20.
8. **Finelli, C. J.** (2020, Jan). *Active learning in the STEM classroom: Overcoming barriers and planning for action*. University of California – Irvine. 01/23/20.
9. **Finelli, C. J.**, & Prince, M. J. (2019, May). *Active learning for busy skeptics and true believers*. University of Texas at Austin, TX. 05/31/19.
10. Curzan, A., **Finelli, C. J.**, & Millunchick, J. (2019, May). *Making space for the Scholarship of Teaching and Learning in your portfolio of scholarship* – panel for the Provost’s Seminar on Teaching. University of Michigan, Ann Arbor, MI. 05/15/19.
11. **Finelli, C. J.**, Forrest, S., Mathieu, J., & Norris, T. (2019, May). *Application package (research, teaching, diversity statements* – panel for Preparing for an Academic Career workshop. University of Michigan, Ann Arbor, MI. 05/14/19.
12. Liu, M., & **Finelli, C. J.** (2019, Mar). *Learning to lean in to your career* – panel for International Women’s Day. University of Michigan, Ann Arbor, MI. 03/11/19.

13. **Finelli, C. J.**, & Prince, M. J. (2019, Apr). *Active learning for busy skeptics and true believers*. Pennsylvania State University, University Center, PA. 04/30/19.
14. **Finelli, C. J.** (2019, Mar). *Overcoming student resistance to active learning*. Florida International University, Miami, FL. 03/06/19.
15. **Finelli, C. J.** (2019, Jan). *Active learning in the classroom: Overcoming barriers and planning for action*. New Jersey Institute of Technology, Newark, NJ. 01/30/19.
16. **Finelli, C. J.** (2018, Dec). *Reducing student resistance to active learning: Strategies for instructors*. School of Dentistry Engaged Learning Club, University of Michigan, Ann Arbor, MI. 12/19/18.
17. Bernhard, J., Lima, R. M., Benson, L., Chance, S., Kautz, C., van der Veen, J. T., van Petegem, W., **Finelli, C. J.** (2018, Sep). *SEFI doctoral symposium in engineering education*. Invited “senior EER scholar,” Copenhagen, Denmark. 9/19/18.
18. 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, Oct). *Meet the engineering education pioneers*. Panel and Roundtable at 48th IEEE/ASEE Frontiers in Education Conference, San Jose, CA.
19. 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.
20. **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.
21. **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.
22. 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.
23. **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.
24. **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.
25. **Finelli, C. J.** (2016, Nov). *Integrating theory and local data to improve teaching*. REBUILD, University of Michigan, Ann Arbor, MI. 11/01/16.
26. 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.
27. **Finelli, C. J.** (2015, Sep). *Promoting faculty adoption of effective teaching practices*. Iowa State University, Ames, IA. 09/24/15.
28. **Finelli, C. J.** (2015, Mar). *Perspectives and priorities in STEM higher education research*. Plenary Discussion, Uppsala University, Uppsala, Sweden. 03/17/15.
29. **Finelli, C. J.** (2015, Mar). *Promoting faculty adoption of effective teaching practices*. Purdue University, West Lafayette, IN. 03/05/15.
30. 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.
31. **Finelli, C. J.** (2014, Mar). *Factors influencing faculty adoption of effective teaching practices*. Virginia Polytechnic Institute and State University, Blacksburg, VA. 03/28/14.

32. **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
33. **Finelli, C. J.** (2009, Apr). *Educating ethical engineers*. University Lecture Series, Carnegie Mellon University, Pittsburgh, PA. 04/01/09.
34. **Finelli, C. J.** (2007, Oct). *Academic integrity among engineering undergraduates*. University of Texas, Austin, TX. 10/29/07.
35. **Finelli, C. J.** (2004, Jan). *Learning styles and their implications for teaching*. Invited workshop, Lawrence Technological University, Southfield, MI. 01/08/04.
36. **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.
37. 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. Edström, K., Benson, L., Mitchell, J., Bernhard, J., van den Bogaard, M., **Finelli, C. J.**, Kellam, N., Lee, M., Lord, S., Rover, D., Saliyah-Hassane, H., Zappe, S. (2020). *Review unto others as you would have others review unto you*. Workshop at 48th IEEE/ASEE Frontiers in Education Conference, virtual. 10/24/20.
2. Benson, L., Carberry, A., Case, J., Edström, K., **Finelli, C. J.**, LeRoux, K., Swart, J. & van den Bogaard, M. (2019, Jul). *Unpacking the writing and publishing process for engineering education researchers*. Workshop at 2019 International Research in Engineering Education Symposium, Cape Town, South Africa.
3. Edström, K., Bernhard, J., van den Bogaard, M., 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.
4. 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.
5. 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 47th IEEE/ASEE Frontiers in Education Conference, Indianapolis, IN. 10/21/17.
6. 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. 10/31/17.
7. **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.
8. **Finelli, C. J.**, & Rasoulifar, G. (2014, Oct). *Using and disseminating a taxonomy for engineering education research*. Workshop at 44th IEEE/ASEE Frontiers in Education Conference, Madrid, Spain. 10/22/14. DOI: 10.1109/FIE.2014.7043989
9. **Finelli, C. J.** (2013, Oct). *Refining a taxonomy for engineering education research*. Workshop at 43rd IEEE/ASEE Frontiers in Education Conference, Oklahoma City, OK. 10/23/13. DOI: 10.1109/FIE.2013.6684779
10. **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
11. **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
12. **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.

13. **Finelli, C. J.**, & Harding, T. S. (2011, Oct). *Survey of Engineering Ethical Development – Regional Workshop*. Ann Arbor, MI. 10/24/11.
14. 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 41st IEEE/ASEE Frontiers in Education Conference, Rapid City, SD. 10/21/11. DOI: 10.1109/FIE.2011.6142939
15. **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.
16. 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.
17. 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.
18. 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.
19. 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.
20. 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. Brennan-Wydra, E., Henderson, T. S., Johnson, A. W., **Finelli, C. J.**, & Millunchick, J. M. (2019, Mar). *The role of socialization on participation in engineering-based co-curricular activities*. Poster at 2019 U-M CRLT-Engin Teaching Innovation Poster Fair, Ann Arbor, MI.
2. Vitali, R., Perkins, N., & **Finelli, C. J.** (2019, Mar). *Continued assessment of i-Newton for the engaged learning of engineering dynamics*. Poster at 2019 U-M CRLT-Engin Teaching Innovation Poster Fair, Ann Arbor, MI.
3. Johnson, A. W., Swenson, J., Blackburn, M.*, Wiwel, C.*, Hernandez, J., & **Finelli, C. J.** (2019, Mar). *Use of technology and movable furniture in flexible classrooms*. Poster at 2019 U-M CRLT-Engin Teaching Innovation Poster Fair, Ann Arbor, MI.
4. 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.
5. 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.
6. 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.
7. Vitali, R., Perkins, N., & **Finelli, C. J.** (2018, Mar). *Introduction and assessment of i-Newton 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.
8. 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.
9. 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.

10. 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.
11. **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.
12. **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.
13. 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.
14. 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.
15. 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.
16. 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.
17. **Finelli, C. J.** (2012, May). *Consultations on teaching: Benefits for engineering faculty*. Poster at CRLT Gallery of U-M Teaching Innovations, Ann Arbor, MI.
18. **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.
19. 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.
20. 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.
21. 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.
22. 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.
23. **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.
24. 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.
25. 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.

26. 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.
27. 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.
28. **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.
29. 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.
30. 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.
31. **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.
32. 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.
33. 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.
34. **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.
35. 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.
36. **Finelli, C. J.**, Ott, M., Gottfried, A. C., Hershock, C., O'Neal, C., & Kaplan, M. (2008, Sep). *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.
37. Harding, T. S., **Finelli, C. J.**, Carpenter, D. D., & Mayhew, M. J. (2007, Nov). *Factors influencing moral development in professional education*. Roundtable discussion at 33rd Annual Conference of the Association for Moral Education, New York, NY.
38. **Finelli, C. J.**, Harding, T. S., Carpenter, D. D., & Sutkus, J. A. (2007, Sep). *Academic integrity among engineering undergraduates: Seven years of research by the E³ Team*. Poster at National Science Foundation Engineering Education Grantees Conference, Arlington, VA.
39. **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 E³ team*. Poster at 2007 U-M CRLT-Engin Annual Research and Scholarship in Engineering Education Poster Fair. Ann Arbor, MI.
40. **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.
41. 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.

42. 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.
43. **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.** *Academic success of STEM college students with Attention Deficit Hyperactivity Disorder and the role of classroom teaching practices*. National Science Foundation – Improving Undergraduate STEM Education (IUSE). Proposal #2043430, total: \$300,000. 05/01/21 – 04/30/24.
2. Cech, E. A., & **Finelli, C. J.** *Research: Learning to be watchdogs—Advancing engineers’ ability to recognize, strategize about, and act on public welfare issues*. National Science Foundation – Research in the Formation of Engineers (RFE). Proposal #2053046, total \$350,000, Finelli’s share \$168,398. 05/01/21 – 04/30/24.
3. **Finelli, C. J.**, Reeping, D., & Millunchick, J. M. *Understanding and mitigating the effect of COVID-19 on the engineering undergraduate student experience*. University of Michigan College of Engineering COVID-19 Skunkworks Initiative, \$84,809. 03/01/21 – 02/28/22.
4. Bastedo, M., **Finelli, C. J.**, Millunchick, J., & Lattuca, L. *Research: Predicting achievement and improving equity in engineering using contextualized high school performance*. National Science Foundation – Engineering Education Research (EEC). Proposal #1947114, total \$254,381, Finelli’s share: \$5,000, 08/15/20 – 07/31/22.
5. **Finelli, C. J.**, Cech, E. A., & Hofmann, H. *Preparing ECE M.S. students to address ethical dilemmas and societal responsibility*. University of Michigan M-Cubed Program, \$15,000. 04/01/20 – 12/31/21.
6. **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. Award #DUE-1821488, total: \$1,863,365, Finelli’s share: \$676,104. 10/01/18 – 09/30/22.

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

1. Lattuca, L. R., & **Finelli, C. J.** *Students’ perceptions of instruction in engineering: A view from the margins*. National Science Foundation – Improving Undergraduate STEM Education (IUSE). Proposal #2120282, total: \$300,000, Finelli’s share \$106,577. 09/01/21 – 08/31/24. Proposal submitted 01/28/21.
2. **Finelli, C. J.**, & Nadakuditi, R. R. *Using an interactive learning platform to expand computational thinking in engineering education*. National Science Foundation – Improving Undergraduate STEM Education (IUSE). Proposal #2120258, total: \$300,000, Finelli’s share \$267,824. 09/01/21 – 08/31/24. Proposal submitted 01/28/21.
3. **Finelli, C. J.** *Research Initiation: Are engineering students quantitatively literate?* Loyola University of Maryland subaward, National Science Foundation – Professional Formation of Engineers, Research Initiation in Engineering Formation (RIEF). Proposal #2106236, total: \$178,564, Finelli’s share \$39,730. 06/01/21 – 05/31/23. Proposal submitted 11/09/20.
4. **Finelli, C. J.** *Increasing faculty adoption of active learning: An international comparison*. Fulbright U.S. Scholar Award proposal. 12/01/21 – 05/31/22. Proposal submitted 09/15/20.

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

1. 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 – 08/31/20.

2. **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 – 10/31/19.
3. **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. 06/01/17 – 05/31/20. This video was produced as part of the project: <https://www.youtube.com/watch?v=Lfnf5s16fcs>
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.
5. 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.
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.** *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.
8. **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.
9. 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.
10. 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.
11. **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.
12. **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.
13. **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.
14. **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.
15. **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.
16. **Finelli, C. J.** *Evaluating methods to improve teaching in engineering*. Rigorous Research in Engineering Education Minigrant Program, \$3,000. 10/15/05.
17. 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.
18. 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.

19. 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.
20. 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.
21. **Finelli, C. J.**, Svinarich, K. A., & Doty, S. L. *Time-course analysis of the electroretinogram*. Kettering University Rodes Professorship Award, \$5000. 05/01/98.
22. **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.
23. **Finelli, C. J.** Kettering University Teaching Improvement Grant, \$1,000. 06/01/97.
24. 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.
25. **Finelli, C. J.** GMI Engineering & Management Institute Teaching Improvement Grant, \$1,000. 04/01/95.
26. **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.
27. **Finelli, C. J.**, & Jenkins, J. M. *Adaptive filtering techniques applied to arrhythmia analysis*. The University of Michigan Rackham Research Partnership Fellowship, \$22,000. 1991.
28. **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. *Journal of Engineering Education*.
 - Advisory Board Member, 07/01/20 – 06/30/23.
 - Deputy Editor, 07/01/17 – 6/30/20.
2. Associate Editor, *IEEE Transactions on Education*. Two, three-year terms, 07/01/14 – 06/30/20.
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 *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.
 - *European Journal of Engineering Education*. 2020 – 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. American Association of Universities workshop, *Essential Questions and Measures - Assessing Institutional Transformation of Undergraduate STEM Education*. Washington, DC. 02/06/19 – 02/07/19.
2. American Association for the Advancement of Science workshop, *Levers for Change*. Bethesda, MD. 05/07/18 – 05/08/18.
3. National Science Foundation workshop, *Impact Framework for Engineering Education Research & Innovations (IFEERI) Workshop*. Mesa, AZ. 02/05/18 – 02/06/18.
4. *ASCN Summer Leadership Institutes Planning Meeting*. Austin, TX. 06/21/16 – 06/23/16.
5. 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.
6. 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.
7. *Denise Denice Denton Emerging Leaders Workshop*. Madison, WI. 06/03/16.
8. 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.
9. 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.
10. National Science Foundation workshop, *Creating engineering education opportunities: Why and how?* Washington, DC. 03/06/09.
11. National Science Foundation workshop, *Rigorous research in engineering education*. Golden, CO. 08/01/07 – 08/03/07.
12. *Engineering Education Research Colloquy 2*. Indianapolis, IN. 10/18/05 – 10/19/05.
13. National Science Foundation workshop, *Rigorous research in engineering education*. Golden, CO. 08/01/05 – 08/05/05.
14. National Science Foundation workshop, *Digital Signal Processing and Applications*. Bristol, RI. 08/12/96 – 08/16/96.
15. *IEEE/EMBS International Summer School on Biomedical Signal Processing*, Siena, Italy. 07/23/95 – 07/30/95.
16. *National Effective Teaching Institute*, Champaign-Urbana IL. 06/24/93 – 06/26/93.

Advisory boards

1. *Research and Innovation in STEM Education*, Michigan Technological University (www.mtu.edu/rise/about/), 09/01/18 – 08/30/21.
2. *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.
3. *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.
4. *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.
5. *Investigating entrepreneurship education as a means to developing the 21st century engineer*. National Science

Foundation – Improving Undergraduate STEM Education (IUSE). PI: Aileen Huang-Saad, University of Michigan. 06/15/15 – 05/31/17.

6. *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.
7. *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.
8. *Investigating global engineering work practices to prepare 21st century engineers*. National Science Foundation CAREER award. PI: Lisa McNair, Virginia Polytechnic Institute and State University. 01/01/10 – 12/31/14.
9. Center for Excellence in Teaching and Learning, Kettering University. Sep 2011 – Dec 2013.
10. *Strengthening the Performance of Engineering and Technology Educators across Disciplines (SPEED)*. American Society of Engineering Education. Oct 2009 – Jul 2010.

Professional societies

1. American Society for Engineering Education. 1994 – present.
 - Campus Representative, University of Michigan. Jun 2013 – May 2017.
 - Chair, Educational Research and Methods Division. Jul 2007 – Jun 2009.
 - Program Co-chair, *2006 ASEE Annual Conference & Exposition*. Jul 2004 – Jun 2006.
 - Program Co-chair, *33rd IEEE/ASEE Frontiers in Education Conference*. Jul 2002 – Nov 2003.
 - Director. Jul 2000 – Jun 2002.
 - New Engineering Educators Liaison. Jul 1999 – Jun 2001.
2. American Educational Research Association. 2005 – 2010.
3. Engineering Education Chairs and Heads Association, ASEE. Chair, 2017 – present.
4. European Society for Engineering Education. 2018 – present.
5. IEEE/ASEE Frontiers in Education Steering Committee
 - Jul 2009 – Jun 2012; Nov 2018 – Oct 2021.
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.
7. Professional and Organizational Development in Higher Education (POD) Network. 2001 – 2009.
8. Research in Engineering Education Network
 - Governing Board, 2020 – 2023.

National/international committees and task forces

1. Task Force on Faculty Teaching Excellence, American Society of Engineering Education. May 20 – Apr 22.

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

1. Graduate Admissions GRE Policy Committee, College of Engineering. Feb 2021 – present.
2. Search Committee, Engineering Education Research Faculty, College of Engineering. Chair, Sep 2020 – present.
3. Faculty Race and Equity Training Steering Committee, College of Engineering. Sep 2020 – present.
4. Honors and Awards Committee, College of Engineering. Sep 2019 – Aug 2021.
5. Rackham Research Agenda – Faculty Advisory Committee, University of Michigan. Jan 2019 – present.

6. Dean's Advisory Committee for Female Faculty (DACFF), College of Engineering.
 - o Member, Sep 2018 – Aug 2020.
 - o Co-Chair, Sep 2020 – Aug 2021.
7. Reappointment Committee
 - o Joi Mondisa. College of Engineering. Sep 2018 – Aug 2019.
 - o Ginger Shultz, Chemistry, LSA. Jan 2018 – Aug 2019.
8. ADVANCE Launch Committee
 - o Lu Wang (convener), College of Engineering. Sep 2020 – May 2021.
 - o Barbara Ericson, School of Information. Sep 2018 – May 2019.
 - o Joi Mondisa. College of Engineering. Sep 2016 – May 2018.
9. The Big Idea Working Group, Office of Academic Innovation, University of Michigan. Sep 2018 – May 2019.
10. Foundational Course Initiative – Faculty Advisory Board, University of Michigan. Sep 2018 – Aug 2021.
11. Michigan Institute for Computational Discovery & Engineering (MICDE) – Education Committee, University of Michigan. Jun 2016 – June 2020.
12. Information Technology – Faculty Council, College of Engineering. Jan 2015 – Aug 2021.
13. Faculty Steering Committee, Rackham Certificate in Engineering Education. Mar 2009 – present.
14. Search Committee, Engineering Education Research Faculty, College of Engineering. Chair, Sep 2015 – Oct 2017.
15. Higher Learning Commission Accreditation Working Group, University of Michigan. May 2017 – Aug 2017.
16. Engineering Education Research Graduate Program Development Committee, College of Engineering. Chair, Oct 2015 – Jun 2017.
17. Research Advisory Committee, School of Education. Feb 2014 – Dec 2016.
18. Faculty Advisory Board, Center for Research on Learning and Teaching in Engineering, College of Engineering. Jan 2010 – Aug 2016.
19. Search Committee, Director of Center for Research on Learning and Teaching in Engineering, College of Engineering. Feb 2016 – Jun 2016.
20. Academic Reporting Toolkit (ART) Steering Group, University of Michigan. Feb 2015 – Sep 2015.
21. Search Committee, Director of Center for Research on Learning and Teaching, University of Michigan. Jan 2015 – Jun 2015.
22. Collaborative Domain Group, University of Michigan. Oct 2012 – May 2013.
23. Faculty Advisory Committee, Center for Engineering Diversity and Outreach, College of Engineering. Jul 2010 – Dec 2012.
24. Engineering Teaching Academy, College of Engineering. May 2003 – Dec 2010.
25. Responsible Conduct of Research Task Force, University of Michigan. Sep 2009 – Dec 2010.
26. Diversity and Outreach Council, College of Engineering. Jul 2005 – Jun 2010.
 - o Diversity in the Curriculum subcommittee, Chair. Jul 2006 – Jun 2007.
27. Academic Practices for a Positive Learning Environment, College of Engineering. Jan 2008 – May 2008.
28. Ethics in Public Life Task Force. University of Michigan. Sep 2006 – Jul 2007.
29. Strategic Planning Implementation Committee, College of Engineering. Nov 2003 – Dec 2004.

Department committees and task forces (University of Michigan)

1. Lecturer's Major Review Committee, ECE Division. 2021.

2. Executive Committee, ECE Division. Sep 2018 – Aug 2020.
3. ECE Education Research Technical Area Group, ECE Division. Director, Dec 2016 – present.
4. ECE Integrated Lab Development (2xx/3xx) committee. Sep 2018 – May 2019.
5. Committee for an Inclusive Department, ECE Division. Sep 2016 – present.
6. Undergraduate Academics Committee, ECE Division. Sep 2015 – Aug 2018.

Institute committees and task forces (Kettering University)

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

Department committees (Kettering University)

1. ECE Curriculum Committee. Jan 1994 – Dec 2000.
 - 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. Nov 1997 – Jul 1998.
 3. ECE Faculty Search Committee. Nov 1996 – Dec 1997.
 4. Biomedical Engineering Minor Committee. Jan 1999 – Jul 1999.
 5. ECE Graduate Curriculum Committee.
 - Jan 1993 – Dec 1997.
 - Chair, Jan 1993 – Dec 1995.

TEACHING

University courses (University of Michigan)

1. EECS 215. *Introduction to Electric Circuits* (3 credits). Winter 2016, Fall 2016, Winter 2017, Fall 2017, Fall 2019 (2 sections).
2. EECS 216: *Introduction to Signals & Systems* (3 credits). Winter 2018.
3. EER 598: *Engineering Education Research Seminar* (1 credit). Fall 2019.
4. EER 601: *Foundations of Engineering Education Research* (3 credits). Fall 2018, Winter 2020.
5. ENGR 580. *Teaching Engineering* (3 credits, co-taught with S. Montgomery, CHE). Fall 2020, 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. *Preparing to teach lecture-style courses*. 4-session course for engineering faculty to plan their Fall 2020 teaching in light of the remote/hybrid teaching expectations during the pandemic.
 - Summer 2020 (co-created and co-taught with Tershia Pinder-Grover, CRLT-Engin)
2. *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).
3. *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.
4. *Works-in-progress. Networking and data sharing for engineering education researchers*

- Winter 2014, seven sessions.
 - May 2012, five sessions.
5. *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* 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: <i>Fundamentals of Problem Solving</i>	ECE 321: <i>Electronics I Lab</i>
ECE 210: <i>Circuits I</i>	ECE 322: <i>Electronics II Lab</i>
ECE 211: <i>Circuits I Lab</i>	ECE 330: <i>Digital Signal Processing</i>
ECE 230: <i>Signals and Systems</i>	ECE 340: <i>Electromagnetic Fields I</i>
ECE 303: <i>Electrical Engineering II Lab</i>	ECE 440: <i>Electromagnetic Fields II</i>
ECE 310: <i>Circuits II</i>	ECE 612: <i>Graduate Digital Signal Processing</i>

ADVISING FOR STUDENTS AND POSTDOCTORAL FELLOWS

Thesis chair/co-chair (listed in reverse chronological order)

1. Carroll, Laura – Ph.D. candidate, Engineering Education Research. Doctoral dissertation committee chair, Expected graduation: Dec 2022.
2. Crockett, Caroline – Ph.D. candidate, Electrical and Computer Engineering, University of Michigan. *Conceptual understanding of signals and systems*. Doctoral dissertation committee co-chair, Expected graduation: May 2022.
3. Vitali, Rachel – Ph.D. completed, Mechanical Engineering, University of Michigan. *Advancing inertial measurement unit technology for human biomechanics and engineering education*. Doctoral dissertation committee co-chair, Graduation: Aug 2019. *Rachel was awarded the ASME Graduate Teaching Fellowship for 2018-2019.*
4. DeMonbrun, Matthew – Ph.D. completed, Higher Education. University of Michigan. *“Will they revolt?”: An*

examination of student response to types of instruction in the engineering discipline. Doctoral dissertation committee chair, Graduation: Nov 2018.

Thesis committees (listed in reverse chronological order)

1. Draughon, Gabriel – Ph.D. candidate, Civil and Environmental Engineering, University of Michigan.
2. Beverly, Selyna – Ph.D. pre-candidate, Higher Education, University of Michigan. *Classroom climate in engineering.* Doctoral dissertation committee Expected graduation: Aug 2021.
3. Kelly, Jandi – Ph. D. candidate, Higher Education, University of Michigan. *Learning the work of teaching as a Graduate Student Instructor.* Doctoral dissertation committee Expected graduation: Aug 2020.
4. Henderson, Trevion – Ph.D. candidate, Higher Education, University of Michigan. *Eurocentrism in engineering: Consequences for teamwork in engineering design.* Doctoral dissertation committee Expected graduation: Aug 2020.
5. Soledad, Michelle M. – Ph.D. completed, Engineering Education, Virginia Tech University. *Understanding the learning experience in fundamental engineering courses.* Doctoral dissertation committee Graduation: May 2019.
6. Fowler, Robin R. – Ph.D. completed, Educational Technology, Michigan State University. *Talk in teams: Participation in and characteristics of team conversations face-to-face and in synchronous chat.* Doctoral dissertation committee Graduation: May 2014.
7. Phillips, William – M.S., Design Science, University of Michigan. *The development of a grounded theory of learning in the interdisciplinary creative teams – An investigation of SmartSurfaces.* Dissertation committee co-chair, Graduation: 2011.
8. Sutkus, Janel A. – Ph.D. completed, Higher Education, University of Michigan. *An assessment of admissions strategy effects and self-selection issues in an enrollment study of Kettering University.* Doctoral dissertation committee Graduation: Jun 2008.
9. Veenstra, Cynthia P. – Ph.D. completed, Industrial and Operations Engineering, University of Michigan. *Modeling engineering freshman success.* Doctoral dissertation committee Graduation: Dec 2007.

Faculty mentorship

1. Coso-Strong, Alex – Assistant Professor, Olin College. ASEE Apprentice Faculty Grant mentor. Jun 2015 – Aug 2018.
2. ECE new faculty. Monthly meetings, Aug 2016 – Aug 2017.
3. ECE women faculty. Monthly meetings, May 2016 – Aug 2017.

Postdoctoral fellow mentorship (listed in reverse chronological order)

1. Reeping, David. Nov 2020 – Aug 2021.
2. Swenson, Jessica. Aug 2018 – Aug 2019.
3. Johnson, Aaron W. Jun 2016 – Aug 2019.
4. Hirshfield, Laura J. Oct 2014 – Sep 2016.
5. Vernon, Julianne. Sep 2014 – Jun 2015.
6. Rasoulifar, Golnoosh. Feb 2014 – Dec 2014.
7. Daly, Shanna R. Jan 2009 – Aug 2010.

Graduate student research assistants (listed in reverse chronological order)

1. Marlor, Lea – Ph.D. student, Engineering Education Research, Sep 2019 – present.
2. Carroll, Laura – Ph.D. student, Engineering Education Research, Sep 2018 – present.

3. Sakri, Shivani – Master’s student, Aerospace Engineering, Sep 2019 – Dec 2019.
4. Hernandez, Jessica – Master’s student, Higher Education, May 2019 – Dec 2019.
5. Crockett, Caroline – Ph.D. student, Electrical Engineering and Computer Science. Sep 2017 – present.
6. Henderson, Trevion – Ph.D. student, Higher Education, Mar 2017 – present.
7. Vitali, Rachel – Ph.D. student, Mechanical Engineering, Sep 2016 – Aug 2019.
8. Brennan-Wydra, Emma – Master’s student, School of Information, Dec 2017 – Aug 2019.
9. DeMonbrun, Matthew – Ph.D. student, Higher Education, Dec 2013 – Dec 2018.
10. Bork, Sarah – Ph.D. student, Electrical Engineering and Computer Science, Sep 2017 – Aug 2018.
11. Cañas, Jessica – Master’s student, Higher Education, May 2015 – Sep 2016.
12. Holsapple, Matthew A. – Ph.D. student, Higher Education, May 2008 – May 2012.
13. Burt, Brian A. – Ph.D. student, Higher Education, Jul 2010 – Dec 2012.
14. Bielby, Robert M. – Master’s student, Higher Education, Mar 2010 – May 2012.
15. Ra, Eunjong – Ph.D. student, Higher Education, Sep 2010 – Dec 2011.
16. Eagle, W. Ethan – Ph.D. student, Aerospace Engineering, Apr 2011 – Sep 2011.
17. Walczak, Kelly – Ph.D. student, Higher Education, May 2009 – Dec 2010.
18. Sutkus, Janel A. – Ph.D. student, Higher Education, Jun 2007 – Jun 2008.
19. Passow, Honor J. – Ph.D. student, Higher Education, May 2003 – Jun 2005.
20. 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). Sep 2017 – Aug 2018.
2. Blackburn, Max – Electrical Engineering and Computer Science (SURE and Independent Study). Jun 2017 – Mar 2019.
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.