

OLIVER DREON, JR.

EDUCATION

Doctor of Philosophy in Education

Penn State University, University Park, PA

December 2008

Degree in Curriculum and Instruction: Science Education

Dissertation topic: Enacting inquiry pedagogy: The experiences of beginning science teachers

Educational Supervisory Program

Millersville University, Millersville, PA

May 2001

Master of Arts in Teaching - Physics Education

University of Pittsburgh, Pittsburgh, PA

August 1992

Thesis topic: Science Misconceptions of Middle School Students

Bachelor of Science in Physics

University of Pittsburgh, Pittsburgh, PA

May 1991

TEACHING CERTIFICATION

Pennsylvania Supervisory I-Science

June 2001

Pennsylvania Instructional II-Physics

November 1997

PROFESSIONAL EXPERIENCE

9/07 – Present. Professor. Millersville University, Millersville, PA. Duties include teaching instructional technology, assessment, and online pedagogy courses to preservice and inservice teachers and school leaders.

9/95 – 8/07 Physics Teacher. Cumberland Valley High School, Mechanicsburg, PA. Duties included classroom teaching, club advising, and curriculum development. Represented staff on the science curriculum committee, graduation standards committee, and faculty advisory committee.

9/05 – 4/06 Research Assistantship. Penn State University, University Park, PA. Duties included supervising student teachers and developing an online environment to support teaching practice.

1/03 - 5/04 Adjunct Professor. Wilson College, Chambersburg, PA. Duties included teaching classroom methods and technology integration courses.

1/95 - 6/95 Adjunct Professor. Seton Hill College, Greensburg, PA. Duties included teaching undergraduate courses in physics.

6/92 - 7/92 Instructor. CAST Program, Carnegie-Mellon University, Pittsburgh, PA. Duties included supervising gifted high school students attending a science camp.

9/92 – 7/95 Teacher. Franklin Regional Senior High School, Murrysville, PA. Duties included teaching high school physics and middle school gifted courses.

9/91-7/92 Teacher. Falk Laboratory School, University of Pittsburgh, Pittsburgh, PA. Duties included teaching middle school math and science.

PUBLICATIONS

Books

Dreon, O., Shibley, I. & Wilson, T. (2019). *The Power of Blended Learning in the Sciences*. Ann Arbor, MI: Part-Time Press.

Dreon, O. & Polly, D. (2017). *Teacher education for ethical professional practices in the 21st Century*. Hershey, PA: IGI Global.

Marcum-Dietrich, N. & Dreon, O. (2008). *Authentic instruction with technology: A student-centered approach*. Dubuque, IA: Kendall-Hunt.

Book Chapters

Zheng, R., Dreon, O. Wang, Y. & Wang, S. (2018). College students' perceptions on the role of digital technology and personalized learning: an international perspective. In Zheng, R. (Eds.). *Digital Technologies and Instructional Design for Personalized Learning*. Hershey, PA: IGI Publications.

Dreon, O. (2017). Developing professional ethics: A statewide curricular solution. In Dreon, O. & Polly, D. (Eds.), *Teacher education for ethical professional practice in the 21st Century*. Hershey, PA: IGI Global.

Dreon, O. & Szczrybak, G. (2016). Level up: Multiple player professional development. In R. Zheng & M. Gardner (Eds.), *Handbook of research on serious games for educational applications*. Hershey, PA: IGI Global.

Dreon, O., Shettel, J. & Bower, K. (2016). Preparing next generation elementary teachers for the tools of tomorrow. In M. Grassetti & S. Brookby (Eds.), *Advancing Next-Generation Elementary Teacher Education through Digital Tools and Applications*, Hershey, PA: IGI Global.

Dreon, O. (2016). Building teacher presence in online classes. In S. D'Agustino (Ed.), *Creating Teacher Immediacy in Online Learning Environments*. Hershey, PA: IGI Global.

Marcum-Dietrich, N. & Dreon, O. (2013). Preparing beginning teachers to use instructional technology effectively. In A. D. Ritzhaupt & Swapna Kumar (Eds.) *Cases on Educational Technology Implementation for Facilitating Learning*. Hershey, PA: IGI Global.

Dreon, O. & Marcum-Dietrich, N. (2012). Supporting teacher development through social networking In C. Mims, K. Persichitte & D. Polly (Eds.), *Technology in Teacher Education: Key Issues*. Hershey, PA: IGI Global.

McDonald, S., Criswell, B., & Dreon, O. (2008). Inquiry in the chemistry classroom: Perplexity, model testing, and synthesis. In J. Luft, R. Bell & J. Gess-Newsome (Eds.), *Science as Inquiry in the Secondary Setting*. Washington, DC: NSTA Press.

Peer-reviewed Journals

Langran, E., Azevedo, P., Dreon, O, Smith Budhai, S., & Hauth, C. (2025), REPAC: Critical questions to inform EdD programs in an era of generative artificial intelligence, *Impacting Education: Journal of Transforming Professional Practice*.

Ibrahim, A. & Dreon, O. (2022). Exploring technology competencies of field-based teacher educators. *Pennsylvania Teacher Educator*, 21(2), 16-29.

Kennedy, S. and Dreon, O. (2019). CASH: Collaborative activity on the sash of the hood. *Journal of Chemical Education*, 96(3), 508-510.

Shettel, J., Dreon, O., and Kriebel, L. (2015). Flipping out in the literacy classroom. *PA Reads*, 14(1), 14-21.

- Marcum-Dietrich, N., Dreon, O., & Mahoney, T. (2013). Participating in change: Mentor teacher's perceptions of the effectiveness of a science teacher residency program, *Teacher Education and Practice*, 26 (4), 760-778.
- Dreon, O. (2013). Review of The Networked Teacher: How new teachers build social networks for professional support. *Science Education*, 97(6), 973-975.
- Dreon, O. & McDonald, S. (2012). Being in the hot spot: A phenomenological study of two beginning teachers' experiences enacting inquiry science pedagogy. *Teachers and Teaching: Theory and Practice*. 18(3), 297-313.
- Dreon, O., Landis, J. & Kerper R. (2011). Digital storytelling: A tool for teaching and learning in the YouTube Generation. *Middle School Journal*. 42(5), 4-9.
- Dreon, O. & Marcum-Dietrich, N. (2010). Using technology to support collaboration in Professional Development Schools. *PDS Partners*. 6(2), 4-5.
- Dreon, O. & Marcum-Dietrich, N. (2009). Turning lemons into lemonade: Teaching assistive technology through wikis and embedded video. *TechTrends*. 53 (1), 78-80.
- Dreon, O., & McDonald, S. (2006). Using an online community of practice to foster inquiry as pedagogy amongst student teachers. In S. Barab, K. E. Hay & N. Songer (Eds.), *Making A Difference: Volume I and II - The Proceedings of the Seventh International Conference of the Learning Sciences* Bloomington, IN: Lawrence Erlbaum Associates, Inc.
- Dreon, O. (2006) A study of Physics First curricula in Pennsylvania, *The Physics Teacher* 44 (8).

Editor-reviewed Journals:

- Dreon, O. & Petula, J. (2018) Using technology to scaffold conceptual development. *Online Classroom*. 18(1), 1-7.
- Dreon, O. (2017). Taking collaboration seriously. *The Teaching Professor*. 31(7), 1-8.
- Dreon, O. & Szczrybak, G. (2017). Understanding open educational resources. *Online Classroom*. 17(2), 3-7.
- Dreon, O. (2016). Five ways to foster creativity in your online classroom. In *Teaching Strategies for the Online Classroom: A Collection of Articles for Faculty*. Madison, WI: Magna Publications.
- Reprinted from: Dreon, O. (2014). Five ways to foster creativity in your online classroom. *Online Classroom* 11(1), 2-3.
- Dreon, O. (2015). The top tools for learning. *Distance Education Report Newsletter*, 11(20), 1-2.

Online Publications:

- Dreon, O. & Gates, L. (2022, March 1). Building a Comprehensive Faculty Mentoring Program: A Case Study. www.academic-leader.com
- Dreon, O. & Pfannenstiel, A.N. (2020, August 3). Spotlight on Open Educational Resource: Introduction. www.academic-leader.com.

- Dreon, O., Redcay, A., & Delle, J. (2020, August 3). Fostering Innovation with a Hands-Off Approach. www.academic-leader.com.
- Dreon, O., Stieha, C., & Redcay, A. (2020, August 3). Adopting Open: Promoting Faculty Interest. www.academic-leader.com.
- Dreon, O. (2017, April 17). Literacy Levels among College Students. <https://www.facultyfocus.com/articles/teaching-and-learning/literacy-levels-among-college-students/>
- Dreon, O. (2017, August 1). Taking Collaboration Seriously. <https://www.facultyfocus.com/resources/teaching-strategies-techniques/group-work/taking-collaboration-seriously/>
- Dreon, O. (2016, December 1). Discussion board expectations. <https://www.facultyfocus.com/tools/discussion-techniques/discussion-board-expectations/>
- Dreon, O. & Shibley, I. (2016, November 25). Six Steps to an Effective Learning Environment. <https://www.facultyfocus.com/tools/worksheets-and-checklists/flex-learning-worksheet/>
- Dreon, O. (2016, November 1). Course Netiquette Expectations. <https://www.facultyfocus.com/tools/discussion-techniques/course-netiquette-expectations/>
- Dreon, O. (2014, July 23). Formative Assessment: The Secret Sauce of Blended Success. <https://www.facultyfocus.com/articles/blended-flipped-learning/formative-assessment-secret-sauce-blended-success/>
- Dreon, O. (2013, May 23). Tips for Building Social Presence in your Online Class. <https://www.facultyfocus.com/articles/online-education/tips-for-building-social-presence-in-your-online-class/>
- Dreon, O. (2013, February 23). Applying the seven principles for good practice to the online classroom. <https://www.facultyfocus.com/articles/online-education/applying-the-seven-principles-for-good-practice-to-the-online-classroom/>
- Dreon, O. (2013, January 21). Promoting Student Success through Collaboration. <https://www.facultyfocus.com/articles/teaching-and-learning/promoting-student-success-through-collaboration/>
- Dreon, O. (2008). Vandalism or an accidental overwrite: A wiki warning. *techLEARNING.com*. Dec 28.

PRESENTATIONS

National/International Presentations:

- Azevedo, P., Dreon, O., Hauth, C. & Langran, E. (2025). Unpacking REPAC(T): Applying Teaching Practices to an AI Framework to Reimagine, Reshape, and Reflect on Research Activities, Ethics, Programmatic Considerations, Affordances, and Competencies in Education, Presentation at the SITE 2025 Conference, Orlando, FL.
- Dreon, O. & Shettel, J. (2025). Navigating the Possibilities, Policies, and Pitfalls of Generative AI, Preconference Workshop at the Leadership in Higher Education Conference, Online.

- Langran, E., Dreon, O., & Azevedo, P. (2024). Using the REPAC Framework to Address AI-Assisted Research Ethical Considerations, Presentation at the SITE Interactive 2024 Conference, online.
- Dreon, O. & Gates, L. (2024). *Understanding Advocacy Expectations in Standards for Educator Preparation*, Paper presented at the American Educational Research Association, Philadelphia, PA.
- Freeman, J., Dreon, O. & Kubasko, W. (2024). *Crisis Communication for School-Family Partnerships: A Case Study*, Paper presented at the American Educational Research Association, Philadelphia, PA.
- Ibrahim, A. & Dreon, O. (2024). *The Development and Validation of a Teacher Educator Technology Competencies Survey for Mentor Teachers*, Paper presented at the Annual Society of Information Technology and Teacher Education, Las Vegas, NV.
- Gates, L. & Dreon, O. (2024). *Preparing Educators to Advocate for Equity in Classrooms and School Communities*, Paper presented at the American Association for Colleges of Teacher Education, Denver, CO.
- Dreon, O., McCollum-Clark, K., & Shettel, J. (2023). *Harnessing the Power of Artificial Intelligence in the Middle-Level Classroom*, Presentation at the Association of Middle Level Educators National Conference, Washington, DC.
- Fenton, AM., Crosby, S., & Dreon, O. (2023). *The Model Code of Ethics for Educators: Implementation Stories*, Presentation at the Professional Practices Institute of the National Association of State Directors of Teacher Education and Certification, Providence, RI.
- Mercier, A., Rush, L., Gull, C., & Dreon, O. (2022). *Designing an Intentional Ethics Curriculum for Preservice Teachers*, Presentation at the Association of Teacher Educators Summer Conference, Nashville, TN.
- Gates, L. & Dreon, O. (2022). *Developing a Community of Practice to Support Faculty Mentoring*, Presentation at the International Mentoring Association 2022 Conference, Gainesville, FL.
- Gates, L. & Dreon, O. (2021). *Building a Comprehensive Faculty Mentoring Program from Scratch: Lessons Learned*, Presentation at the annual Leadership in Higher Education Conference, Baltimore, MD.
- Dreon, O., Gates, L., & Mahoney, T. (2020). *Partnering to Build a Shared Understanding of Disposition Assessment*. Presentation at the American Association for Colleges of Teacher Education, Louisville, KY.
- Dreon, O. (2019). *Open Educational Resources: What does the research say?*, Presentation at the annual Leadership in Higher Education Conference, St. Louis, MI.
- Dreon, O. (2019). *Meeting Faculty Where They Are: Promoting Innovative Pedagogy Across Campus*, Presentation at the annual Leadership in Higher Education Conference, St. Louis, MI.
- Dreon, O. (2019). *Humanizing the Online Learning Environment*, Presentation at the annual Distance Teaching & Learning Conference, Madison, WI.
- Dreon, O. (2019). *Collaborating to Foster Collaboration Online*, Presentation at the annual Distance Teaching & Learning Conference, Madison, WI.

- Dreon, O. Mahoney, T. & Ward, J. (2019). *Generative Dispositions: Elaborations on an Educative Approach to Disposition Evaluation in Pre-service Teachers*. Paper presented at the American Association for Colleges of Teacher Education, Louisville, KY.
- Dreon, O. & Smith, J. (2018). *Teaching Digital Citizenship in the Collegiate Snapchat World*, Presentation given at the annual Magna Technology with Technology Conference, St. Louis, MI.
- Dreon, O. (2018). *Engaging and Assessing with Student-Created Videos*, Spotlight presentation at the annual Distance Teaching & Learning Conference, Madison, WI.
- Dreon, O. & Price, C. (2018). *Now What? Advice for New Faculty Developers*, Presentation at the annual Teaching Professor Conference, Atlanta, GA.
- Dreon, O., Ward, J. & Deemer, S. (2018). *Investigating Psychological Constructs in New Contexts: Understanding and Measuring Teacher Efficacy in Online Classrooms*. Paper presented at the American Educational Research Association, New York, NY.
- Deemer, S., Dreon, O. & Ward, J. (2018). *Considering Context: Developing and Validating an Online Teacher Efficacy Scale*. Paper presented at the American Association for Colleges of Teacher Education, Baltimore, MD.
- Dreon, O., Ward, J., & Mahoney, T. (2018). *Development and Implementation of an Educative Approach to Disposition Evaluation*. Paper presented at the American Association for Colleges of Teacher Education, Baltimore, MD.
- Marquez, L. Davis, R., Dreon, O., Spicer, R. & Schreiber, L. (2017). *Assessing General Assessment Across the Curriculum: The Creation, Testing and Implementation of General Education Rubrics at Millersville University*. Presentation given at the Annual Assessment Institute, Indianapolis, IN.
- Josephson, J., Dreon, O. & Murray, S. (2017) *Flipping the Inclusive Classroom: Partnering for Preparation and Innovation*. Presentation given at the annual Council for Learning Disabilities Conference, Baltimore, MD.
- Dreon, O., Shibley, I. & Wilson, T. (2017). *Putting the BLEND in Blended Learning*. Presentation given at the annual Magna Technology with Technology Conference, Baltimore, MD.
- Dreon, O. & Petula, J. (2017). *Using Technology to Scaffold Conceptual Development*. Presentation given at the annual Magna Technology with Technology Conference, Baltimore, MD.
- Dreon, O. & Shettel, J. (2017). *Tools and Strategies that Promote Deep Engagement with Assigned Readings*, Pre-conference workshop given at the annual Teaching Professor Conference, St. Louis, MI.
- Dreon, O. & Shettel, J. (2017). *Instructional Design for TPACK Development in Preservice Teachers*. Paper presented at the American Educational Research Association, San Antonio, TX.
- Deemer, S., Dreon, O. & Ward, J. (2017). *Online Teaching Efficacy: Informing Preparation through Research*. Paper presented at the American Association for Colleges of Teacher Education, Tampa, FL.

- Dreon, O. & Szczyrbak, G. (2016). *What's up with Open Educational Resources?* Presentation given at the annual Teaching Professor Technology Conference, Atlanta, GA.
- Dreon, O. & Szczyrbak, G. (2016). *Level Up: Including Game Elements in your Online and Face-To-Face Courses*. Pre-conference workshop given at the annual Teaching Professor Technology Conference, Atlanta, GA.
- Penny, C., Dreon, O. & Wilson, J. (2016). *From Classroom Spaces to Learning Spaces*. Panel presentation at the Annual Society of Information Technology and Teacher Education, Savannah, GA.
- Dreon, O. & Penny, C. (2016). *Teacher Preparation for Online Learning: What Should We Be Researching?* Roundtable presentation at the Annual Society of Information Technology and Teacher Education, Savannah, GA.
- Penny, C. & Dreon, O. (2016). *Teach a Better Day - The Apple Watch and watchOS*. Roundtable presentation at the Annual Society of Information Technology and Teacher Education, Savannah, GA.
- Dreon, O. & Shettel, J. (2016). *The Impact of Authentic: How Field Experiences and Authentic Projects Influence TPACK Development*. Paper presented at the Annual Society of Information Technology and Teacher Education, Savannah, GA.
- Dreon, O. & Szczyrbak, G. (2015). *Meeting Faculty Where They Are: Promoting Innovative Pedagogy across Campus*. Presentation given at the annual Teaching Professor Conference, Atlanta, GA.
- Dreon, O. & Marcum-Dietrich, N. (2015). *The Impact of Field Placement Design on Pre-Service Teachers' Self-Efficacy: A Comparative Study*, Paper presented at the annual meeting of the American Educational Research Association, Chicago, IL.
- Dreon, O. & Shettel, J. (2015). *Flipping Out for TPACK*. Paper presented at the American Association for Colleges of Teacher Education, Atlanta, GA.
- Marcum-Dietrich, N., Dreon, O. et al. (2014). *Encouraging And Supporting A Culture Of Scholarly Research In Your PDS Program*, Paper presented at the annual conference of the National Association for Professional Development Schools, Las Vegas, NV.
- Dreon, O. & Marcum-Dietrich, N. (2014). *Self-Efficacy Evolution And Field Placement Design*, Paper presented at the National Association for Professional Development Schools, Las Vegas, NV.
- Griffin, T. & Dreon, O. (2014). *Robust and Effective Technology-Facilitated Course Design*. Invited pre-conference workshop given at the annual Teaching Professor Conference, Denver, CO.
- Dreon, O., Shibley, I. & Wilson, T. (2013) *Technology for Blended Courses*, Pre-conference workshop given at the annual Teaching Professor Conference, New Orleans, LA.
- Dreon, O. & Wilson, T. (2013). *Tools and Tips for the Beginning Screencaster*, Presentation given at the annual Teaching Professor Technology Conference, Atlanta, GA.
- Dreon, O. & Firestone, M. (2013). *Fostering Creativity through Embedded Content*, Presentation given at the FUSION 2013, the annual users conference for Desire2Learn, Boston, MA.
- Firestone, M. & Dreon, O. (2013). *Get Graphic: Increase Higher Order Thinking with Embedded*

- Organizers*, Presentation given at the FUSION 2013, the annual users conference for Desire2Learn, Boston, MA.
- Szczyrbak, G. & Dreon, O. (2013). *Applying Multimedia Principles to Your Online Course*, Presentation given at the FUSION 2013, the annual users conference for Desire2Learn, Boston, MA.
- Dreon, O. & Marcum-Dietrich, N. (2013). *Navigating self-doubt: A PDS journey*, Paper presented at the National Association for Professional Development Schools, New Orleans, LA.
- Marcum-Dietrich, N. & Dreon, O. (2013). *The essential partner: investigating mentors perception of the PDS program*, Paper presented at the annual conference of the National Association for Professional Development Schools, New Orleans, LA.
- Marcum-Dietrich, N., Dreon, O., et al. (2013). *Developing a research community at your institution*, Paper presented at the annual conference of the National Association for Professional Development Schools, New Orleans, LA.
- Marcum-Dietrich, N. & Dreon, O. (2013). *Change through participation: Examining mentor teachers' perceptions of Professional Development Schools*, Paper presented at the annual meeting of the American Educational Research Association, San Francisco, CA.
- Marcum-Dietrich, N. & Dreon, O. (2012). *Participating in change: Mentor-teacher's perceptions of the effectiveness of a science teacher residency program*, Paper presented at the annual meeting of the American Educational Research Association, Vancouver, BC.
- Dreon, O. (2012). *Contemporary STEM teacher education*, Paper panel chaired at the annual meeting of the American Educational Research Association, Vancouver, BC
- Marcum-Dietrich, N. & Dreon, O. (2012). *Implementing a residency-model for science teacher preparation*, Poster presented at the annual conference of the National Association for Research in Science Teaching, Indianapolis, IN.
- Marcum-Dietrich, N. & Dreon, O. (2012). *Supporting teacher development through social networking*, Paper presented at the annual conference of the National Science Teachers Association National Conference, Indianapolis, IN.
- Dreon, O. & Marcum-Dietrich, N. (2012). *Supporting teacher development through social networking*, Paper presented at the annual meeting of the American Association of Colleges for Teacher Education, Chicago, IL.
- Dreon, O. Labant, J. & Schaeffer, S. (2011). *Developing global awareness in young learners through dance*, Paper presented at the annual conference of the National Council for the Social Studies, Washington, DC.
- Marcum-Dietrich, N. & Dreon, O. (2011). *Improving K-12 teacher education: Using a medical school model of learning through apprenticeship*, Poster presented at the annual meeting of the American Association for the Advancement of Science, Washington, DC.
- Dreon, O. & Marcum-Dietrich, N. (2011). *Fostering a unified learning community across a geographically-distributed secondary PDS*, Paper presented at the annual conference of the National Association for Professional Development Schools, New Orleans, LA.
- Bray, J., Dreon, O., Keefer, J., Longenecker, V., & McCarthy, J. (2011). *Evaluating the impact of the*

iPad in the collegiate learning community, Paper presented at the annual conference of the Educause Educator Learning Initiative, Washington, DC.

Dreon, O. & Marcum-Dietrich, N. (2010). *The first-year teacher experience: Stories of triumph and challenges*, Paper presented at the annual conference of the National Science Teachers Association National Conference, Philadelphia, PA.

Dreon, O. & Marcum-Dietrich, N. (2010). *Classroom Symposium: A model of scientific talk*, Paper presented at the annual conference of the National Science Teachers Association National Conference, Philadelphia, PA.

Dreon, O. & Marcum-Dietrich, N. (2010). *The Ning is the thing: Supporting interns through social networking*, Paper presented at the annual conference of the National Association for Professional Development Schools, Orlando, FL.

Marcum-Dietrich, N., Dreon, O. & Long, E. (2010). *From theory to action: Year one of a professional development school*, Paper presented at the annual conference of the National Association for Professional Development Schools, Orlando, FL.

Dreon, O. & McDonald, S. (2010). *New science teachers' descriptions of inquiry enactment*, Paper presented at the annual conference of the American Educational Research Association, Denver, CO.

Dreon, O. & McDonald, S. (2010). *Being in the hot spot: How beginning teachers' describe their experiences enacting inquiry within the culture of schools?* Paper presented at the annual conference of the National Association for Research in Science Teaching, Philadelphia, PA.

McDonald, S., Criswell, B., Dreon, O., et al. (2009). *Technology symposium: The impact of video analysis on the development of professional vision in preservice and practicing teachers*, Symposium presented at the annual conference of the National Association for Research in Science Teaching, Orange County, CA.

Marcum-Dietrich, N., Dreon, O. & Ross, P. (2009). *The first-year teacher experience: Stories of triumph and challenges*, Paper presented at the annual conference of the National Science Teachers Association, New Orleans, LA.

Dreon, O., Marcum-Dietrich, N., et al. (2009). *Using technology to enhance communication in Professional Development Schools*, Paper presented at the annual conference of the National Association for Professional Development Schools, Daytona Beach, FL.

Dreon, O. and McDonald, S. (2008). *The development of professional identity through participation in a community of practice*, Paper presented at the annual conference of the National Association for Research in Science Teaching, Baltimore, MD.

Regional/State Presentations:

Dreon, O. (2024). *Exploring the Power, Pitfalls, and Possibilities of Generative AI*, Presentation at the 2024 PASSHE Summit, October 2024.

Dreon, O., Criswell, B., Licon, P., & McDonald, S. (2024). *Building a Statewide Community of Practice for Science Teacher Education*, Presentation at the Pennsylvania Association of Colleges and Teacher Educators Fall Conference, Harrisburg, PA.

Dreon, O. & Gates, L. (2024). *Preparing Teachers as Advocates: What Do the Standards Say?*

- Presentation at the Pennsylvania Association of Colleges and Teacher Educators Fall Conference, Harrisburg, PA.
- Dreon, O., Shettel, J. & Willox, L. (2024). *Preparing Teacher Candidates for an AI World*, Presentation at the Pennsylvania Association of Colleges and Teacher Educators Fall Conference, Harrisburg, PA.
- Gates, L. & Dreon, O. (2024), *Advocacy in Increasingly Polarized Contexts: Responsibilities and Opportunities for Art Educators*. Presentation at the Pennsylvania Art Education Association Annual Conference, Hershey, PA.
- Dreon, O. & Shettel, J. (2024). *Navigating the GenAI Landmines in Education*. Presentation at the CAIU AI Summit: Unleashing the Power of Artificial Intelligence, Harrisburg, PA.
- Shettel, J., Dreon, O. & McCollum-Clark, K. (2024). *Harnessing the Power of Artificial Intelligence (AI) in the Middle-Level Classroom*. Presentation at the annual conference of the Pennsylvania Association For Middle Level Education, King of Prussia, PA.
- Ward, J. & Dreon, O. (2023). *Exploring the Role of the Model Code of Ethics for Educators in Teacher Education*. Presentation at the annual conference of the Pennsylvania Association of Colleges and Teacher Educators Teacher Education Assembly, Harrisburg, PA.
- Ibrahim, A. & Dreon, O. (2021). *The Value of Partnerships: Assessing Cooperating Teachers' Technology Competencies*. Presentation at the annual teacher education assembly of the Pennsylvania Association of Colleges and Teacher Educators, Hershey, PA.
- Rush, L., Gull, C., Mercier, A. & Dreon, O. (2021) *Infusing Ethics into UW Preservice Teacher Education: An Intentional Curricular Approach*. Presentation at the Wyoming Education Summit, Laramie, WY.
- Dreon, O. (2021). *What YouTube Can Teach Us About Educator Ethics*, Invited presentation at 2021 Summer Law, Leadership, and Ethics Conference, University of Wyoming, Laramie, WY.
- Dreon, O. & Shettel, J. (2018). *Turning the Corner with 360-Degree Feedback*, Presentation at Lancaster Learns, Lancaster, PA.
- Shettel, J. & Dreon, O. (2017). *Close Reading in the Collegiate Classroom*, Presentation at Lancaster Learns, Lancaster, PA.
- Dreon, O. & Szczyrbak, G. (2017). *Are You OK with OER?* Presentation given at the annual PASSHE Virtual Conference, Harrisburg, PA.
- Dreon, O, Wright, T, Brooks, S. & Ward, J. (2016). *Peers, Predators and the Open Seas: Helping Doctoral Students Navigate the Waters of Scholarly Literature*. Presentation at the PASSHE Doctoral Summer Symposium, Millersville, PA.
- Dreon, O. (2016). *Principles of Good Instruction: Applying Chickering and Gamson Online*. Presentation at Lancaster Learns, Lancaster, PA.
- Dreon, O., Macaulay, L, Edgell, L. & Mulnix, A. (2015). *Lancaster Learns: Collaborating for Professional Development*, Presentation given at Innovations in Faculty Development Symposium, Shippensburg, PA.

- Dreon, O. & Szczyrbak, G. (2015). *Game On: Faculty Development through Gaming*, Presentation given at Innovations in Faculty Development Symposium, Shippensburg, PA.
- Dreon, O. & Szczyrbak, G. (2015). *Applying Multimedia Principles to Online Learning Objects*, Presentation given at Lancaster Learns, Lancaster, PA.
- Szczyrbak, G., Dreon, O. & Davis, L. (2014). *Supporting Multimedia Learning in Library Spaces with Peer Tutors and Communities of Practice*. Presentation given at the Annual Conference of the Pennsylvania Library Association, Lancaster, PA.
- Ward, J., Hanich, L., Dreon, O. & Wright, T. (2014). *Teacher Reflection after No Child Left Behind – What Has Changed? What Can We Do?* Presentation at the annual teacher education assembly of the Pennsylvania Association of Colleges and Teacher Educators, Hershey, PA.
- Dreon, O. (2014). *Examining Teacher Efficacy in Online Learning Environments*. Presentation at the Pennsylvania Association for Supervision and Curriculum Development Annual Conference, Hershey, PA.
- Marcum-Dietrich, N. & Dreon, O. (2014). *FLIP not Flop: A How-To-Session for Successfully Flipping Your Classroom*, Pennsylvania Science Teachers Association State Conference, State College, PA
- Marcum-Dietrich, N. & Dreon, O. (2014). *Get OUTSIDE: Encouraging "digital natives" to explore nature using technology as a field-based tool*, Pennsylvania Science Teachers Association State Conference, State College, PA
- Dreon, O. & Shettel, J. (2014). *Flipping for TPACK*, Presentation given at the Pennsylvania Educational Technology Expo & Conference, Hershey, PA.
- Dreon, O., Shettel, J., Hallock, V., Rissinger, C., Gwynn, D., Transue, M., ... Kriebel, L. (2014). *A Flipped Classroom Partnership Model*, Presentation given at the Pennsylvania Educational Technology Expo & Conference, Hershey, PA.
- Kriebel, L., Shettel, J., Dreon, O., Lurie, J. & Morning, D. (2014). *Flipping Out in the College Classroom*, Presentation given at the Pennsylvania Educational Technology Expo & Conference, Hershey, PA.
- Dreon, O. & Firestone, M. (2013). *Fostering Creativity through Embedded Content*, Presentation given at the IGNITE 2013, the regional users conference for Desire2Learn, Lancaster, PA.
- Dreon, O. & Marcum-Dietrich, N. (2013). *iPad Apps for the science classroom*, Pennsylvania Science Teachers Association State Conference, State College, PA
- Marcum-Dietrich, N. & Dreon, O. (2013). *Inquiry Science Teaching: There's an App for That*, Pennsylvania Science Teachers Association State Conference, State College, PA
- Dreon, O. & Marcum-Dietrich, N. (2012). *iPad apps for the science classroom*, Pennsylvania Science Teachers Association State Conference, Hershey, PA
- Marcum-Dietrich, N. & Dreon, O. (2012). *Science Demonstrations*, Pennsylvania Science Teachers Association State Conference, Hershey, PA

- Ward, J., Richardson, S., Wright, T. & Dreon, O. (2012). *The PDE Teacher Evaluation Project and student teaching*, Paper presented at the annual teacher education assembly of the Pennsylvania Association of Colleges and Teacher Educators, Hershey, PA.
- Dreon, O., Angelo, C. & Sheppard, S. (2011). *An introduction to the PA Educator Ethics and Conduct Curriculum*, Paper presented at the annual teacher education assembly of the Pennsylvania Association of Colleges and Teacher Educators, Hershey, PA.
- Dreon, O., Angelo, C. & Sheppard, S. (2011). *Developing professional ethics: A statewide curricular solution*. Paper presented at the annual conference of the Pennsylvania Association of Colleges and Teacher Educators Teacher Education Assembly, State College, PA.
- Steffy, H., Arp, K., Ahrens, P. & Dreon, O. (2011) *Pennsylvania Professors of Middle Level Education*, Panel discussion organized at the annual professional development institute of the Pennsylvania Middle Schools Association, Lancaster, PA.
- Dreon, O. & Marcum-Dietrich, N. (2010). *Engaging digital natives in an inquiry science classroom*, National Science Teachers Association Regional Conference, Baltimore, MD.
- Dreon, O. & Marcum-Dietrich, N. (2010). *Teaching science in a Web 2.0 world*, National Science Teachers Association Regional Conference, Baltimore MD.
- Dreon, O., McDowell, L., et al. (2010). *Using video to support student teacher reflection and development*, The Pennsylvania Association of Colleges and Teacher Educators Teacher Education Assembly, Hershey, PA.
- Steffy, H., Dreon, O. et al. (2010). *Meeting the needs of the middle*, The Pennsylvania Association of Colleges and Teacher Educators Teacher Education Assembly, Hershey, PA.
- Dreon, O. & Marcum-Dietrich, N. (2010). *Supporting student teacher development through social networking*, The Pennsylvania Association of Colleges and Teacher Educators Teacher Education Assembly, Hershey, PA.
- Marcum-Dietrich, N. & Dreon, O. (2009). *Classroom symposium: A model of scientific talk*, STEM Academy for Educators, Manheim Township, PA.
- Dreon, O., Zembal-Saul, C, and McDonald, S. (2009). *Teaching Science in a Web 2.0 World*. One-to-One Computing Conference, Penn State University, State College, PA.
- Dreon, O. & Marcum-Dietrich, N. (2008). *The first-year experience panel discussion*, Pennsylvania Science Teachers Association State Conference, Hershey, PA.
- Marcum-Dietrich, N. & Dreon, O. (2008). *Science demonstrations: A presentation by Millersville University students*, Pennsylvania Science Teachers Association State Conference, Hershey, PA.
- Dreon, O. & Criswell, B (2007). *Mentoring new inquiry-minded science teachers: Lessons from ICISS*, How Students Learn: The Implications of Learning Research for Science Education, Franklin & Marshall College, Lancaster, PA.

Invited Presentations

- Dreon, O. *Generative AI: Hero or Villian?* Capital Area Intermediate Unit Fall Leadership Conference, Bethlehem, PA. October 2024.

- Dreon, O. *Engaging and assessing with student-created videos*. Spotlight presentation at the Distance Teaching & Learning Conference, Madison, WI. August 2018.
- Dreon, O. *Working to do the “right thing:” A Discussion on Educator Ethics*. Keynote presented at the Education Summit at Clarion University of PA, Clarion, PA. August 2017.
- Dreon, O. *Changing space, Changing culture, Changing practice*. Keynote presented at the Annual SoTL Conference at University of Findlay, Findlay, OH. May 2016.
- Dreon, O. *Changing space, Changing culture, Changing practice*. Keynote presented at the Annual Faculty Technology Showcase at Bloomfield College, Bloomfield, NJ. January 2016.
- Dreon, O. *Changing space, Changing practice, Changing culture*. Keynote presentation at Teaching Professor Technology Conference, New Orleans, LA. October 2014.
- Dreon, O. *Web 2.0: New opportunities for learning through collaboration*. Summer Gifted Workshop, Millersville University, Millersville, PA. June 2010.
- Dreon, O. *Being in the hot spot: The experiences of beginning teachers enacting inquiry pedagogy*. Science Education Colloquium, Pennsylvania State University, State College, PA. September 2008.
- Dreon, O. & Beabout, B. *Navigating the dissertation process*. Qualitative Research symposium, Pennsylvania State University, State College, PA. April 2008.
- Dreon, O. *Structured inquiry in the elementary science classroom*. Guest lecture - ELED 361, Millersville University, March 2008.

COURSES TAUGHT

Undergraduate Courses:

EDFN 320: Instructional Technology in Elementary Education
 ELED 361: Teaching Science in Elementary Schools
 EDFN 330: Instructional Technology Design and Assessment
 EDSE 321: Current Issues in Secondary Education

Graduate Courses:

EDFN 520: Instructional Technology in Elementary Education
 EDFN 530: Instructional Technology Design and Assessment
 ACTE 630: Current Technology for Online Instruction
 ACTE 632: Online Learning Environments
 ACTE 635: Instructional and Curricular Design for Online Teaching
 ACTE 699: Inquiry for Teaching and Learning

Doctoral Courses:

ELPP 828: Emergent Technologies and Instructional Practices

UNIVERSITY SERVICE

University:

Meet and Discuss committee, represents APSCUF-MU to negotiate with administration about policy changes, January 2021- present.

General Education Reform Taskforce, developed revised General Education curricular requirements and learning objectives for university. August 2021 – present.

General Education Review Committee, reviews curriculum and policies related to General Education. August 2021 – present.

Online Learning Advisory Council, advises university on state of online programs. August 2016 – August 2020.

Advisory Council for Technology, advise the University Cabinet regarding Information Technology issues, determine university technology priorities. August 2016 – May 2019.

Academic Council for Technology, recommend policies and procedures related to support of IT services, provide a campus wide perspective for technology issue resolution. August 2016 – May 2019.

Graduate Course and Program Review Committee, examines and approves graduate courses on campus. October 2015 – Present.

Undergraduate Course and Program Review Committee, examines and approves undergraduate courses on campus. September 2012 – May 2021. Positions held: UCPRC Chair: 2015- Present. FYI Sub-committee Chair: 2013-2015.

Education Librarian Search Committee, represented department on university-wide search committee. October 2015- May 2016.

Digital Media Writing Search Committee, acted as an external member of the English department search. October 2015- May 2016.

Director of Online Learning Search Committee, served on university-wide search for new administrative position. September 2014- April 2015.

Academic Outcomes and Assessment Committee, guides assessment of university coursework to fine-tune instructional delivery and service performance. September 2011 – May 2020.

Academic Standards Committee, serves as court of appeals for undergraduate students dismissed due to failure to meet academic standards. September 2011- August 2017.

Community of Digital Innovators committee, plans professional development sessions to help faculty learn digital skills. January 2011- August 2013.

University Honors College Committee, oversees Honors College procedures and approve Honors College courses. September 2010 – May 2013.

Common Reading Committee, selects text for freshman reading program and plan associated events. March 2010 – May 2013.

College of Education and Human Services:

College of Education & Human Service assessment committee, collaborates to inform on-going accreditation and certification requirements, Spring 2019 – Present.

Educator Shortage Taskforce, works to address the structural and systemic issues that contribute to the educator shortages within the commonwealth, January 2022 – present.

Education on Location: National Issues at Home committee, organized week-long event that partners the College of Education & Human Services with local groups to discuss national issues. April 2011-May 2019.

College of Education & Human Services curriculum committee, oversaw the development and approval of courses with the College of Education & Human Services. August 2008 – May 2012.

Professional Development School committee, coordinated with local school districts on creation of PDS initiative. September 2008 – August 2015.

Act 49-2 Middle Level Committee, collaborated with university faculty in the development of middle level teacher preparation program. April 2008 – August 2009.

Educational Foundations:

Graduate Coordinator, Master of Education in Assessment, Curriculum and Teaching, August 2015 – Present.

Search committee, part of department team leading new faculty hiring. September 2010 – May 2011. September 2013 – May 2014.

Special individual assignments:

Assistant to the Dean, assisted dean with programmatic assessments within the College of Education and Human Services. 2017-2018 Academic Year

Director, Center for Academic Excellence, facilitated resources and programs to assist faculty with their professional development as educators. Fall 2012 – May 2020.

Coordinator, Digital Learning Studio, provided support for student and faculty creating technology-rich classroom projects. Fall 2009 – Spring 2017.

Assistant to the Dean, assisted dean with Instructional Technology innovations within the School of Education. 2009-2010 Academic Year

Millersville Self-Study, participated in focus group assess campus climate. February 2009.

School of Science and Mathematics Dean search committee, represented College of Education & Human Services and interviewed dean candidates. Spring 2008.

PROFESSIONAL SERVICE

Advisory Board, Leadership in Higher Education Conference, 2019 – Present. Oversees planning and organization of an international higher education conference.

Conference Advisor, Magna Teaching with Technology Conference, 2017-2018. Advised planning and organization of an international teaching and learning conference..

Conference Chair, Magna Teaching with Technology Conference, 2016-2017. Supported the planning and organization of an international teaching and learning conference.

Advisory Board, Teaching Professor Technology Conference, 2013 – 2016. Oversaw planning and organization of an international technology conference.

ETS Educator Ethics Advisory Panel, October 2016. Inform work in the dissemination of ideas, development of innovative resources, and conducting substantive research in the field of educator ethics

Planning Committee, Lancaster Learns Conference, 2014- May 2020. Organizee and planned local teaching and learning conference.

Treasurer, Pennsylvania Professors of Middle Level Education. May 2010 – Spring 2012. Managed finances and membership information for statewide organization.

Praxis question editor, Educational Testing Services, Spring 2009. Developed and assessed science content questions for national teacher exam.

Judge, Wireless Broadband Education Competition, Fall 2008 – Spring 2011. Assessed quality of submissions in a national competition where Pre-K -16 educators developed wireless broadband projects for use in classroom settings.

Educator Advisory Board, TeachersFirst.com. Fall 2007 – Spring 2012. Advised not-for-profit learning technologies corporation in providing online resources to K-12 classroom teachers.

Reviewer, National Association for Research in Science Teaching 2008, Baltimore, MD. Fall 2007. Critiqued conference proposals.

Article Reviewer, The Physics Teacher, Spring 2006 - present. Critiqued submissions for publication.

Article Reviewer, Science Education, Fall 2005 - present. Critiqued submissions for publication.

Article Reviewer, International Conference of the Learning Sciences, Bloomington, IN. Fall 2005. Critiqued conference proposals.

Beyond Einstein Focus Group, NASA, State College, PA. March 2004. Evaluated curriculum materials developed by space agency.

Cooperating Teacher, Shippensburg University. Spring 1997, Spring 2005. Assisted in the development of student teachers in physics

Christa McAuliffe Professional Development Program, Washington DC. December 2002-2003. Served on national oversight committee that awarded \$250,000 to five state education agencies to develop professional development programs

Praxis revision committee, Educational Testing Services, Harrisburg, PA. March 1999. Served on committee of teachers who helped to revise content area exam in physics

Inservice Instructor, Cumberland Valley School District. Summer 2002-Present. Taught staff members numerous software applications during summer workshops including PowerPoint, Excel, etc.

Curriculum Specialist, Penn State University-Harrisburg, Harrisburg, PA. Summer 1997. Studied secondary science curriculum from schools within the Capital Area Intermediate Unit and developed computer database to assist schools in curriculum development

GRANTS & AWARDS

Marine Science Consortium grant,

Principal investigator on \$135,000 state grant supporting residential science research experiences for secondary students.

Christa McAuliffe Fellowship – Pennsylvania 2001

Awarded \$40,000 fellowship by the Pennsylvania Department of Education to develop curriculum which integrated technology into science classroom

Whitaker Foundation Grant-August 1999

Member of district team that was awarded \$100,000 grant to develop program incorporating computer-interfaced learning into science classes

HONORS

Intel Innovation Odyssey - August 2002

Recognized by Intel corporation for developing innovative lessons that utilize technology.
www97.intel.com/education/odyssey/day_132/day_132.htm

Eagle Foundation Star, Cumberland Valley School District – 1999-2000 School Year

Recognized by district for outstanding teaching and service to community

PROFESSIONAL DEVELOPMENT

Middle Level Symposium, National Professors of Middle Level Education, Appalachian State University, Boone, NC. May 2010

Adopt-an-Anchor workshop, Pennsylvania Department of Education, Harrisburg, PA, October 2004

Governor's Institute for Physical Science Educators Carnegie Mellon University, Pittsburgh, PA - July 2004

PROFESSIONAL ORGANIZATIONS

American Educational Research Association

National Association for Professional Development Schools

National Science Teachers Association

National Association for Research in Science Teaching

National Professor of Middle Level Education

Pennsylvania Professors of Middle Level Education

Pennsylvania Science Teachers Association