

publications

Books/Educational videos/Web-based publications

- 2026 • *Spellbound Essays on Nature from Zygote Quarterly* by Adelheid Fischer, Editors N. Hoeller, Shoshanah Jacobs, and M. Eggermont, ZQ Books, coming soon.
- 2023 • Randall Anway, Kai Costantini, Marjan Eggermont, Margo Farnsworth, PJ McGoey, Curt McNamara P.E., Jacquelyn Nagel PhD, George Studor, Dennis Tuckowski and Alex Wolf, *Natural Systems and the Systems Engineering Process: A Primer*, Natural Systems Working Group of INCOSE, v4.0 dated 20 January 2023. <https://www.incose.org/products-and-publications/naturalsystemsprimer>
- 2022 • Dr. M. Eggermont, Dr. Aloysius F. Hepp, and Dr. Vikram Shyam (editors), *Biomimicry for Materials, Design and Habitats*: ISBN - 978 012 821 053 6, Elsevier publication, February 2022. <https://www.elsevier.com/books/biomimicry-for-materials-design-and-habitats/eggermont/978-0-12-821053-6>
- 2021 • Dr. Vikram Shyam, Dr. Aloysius F. Hepp, and Dr. M. Eggermont (editors), *Biomimicry for Aerospace*: ISBN - 978 012 821 074 1, Elsevier publication, February 2021. <https://www.elsevier.com/books/biomimicry-for-aerospace/shyam/978-0-12-821074-1>
- 2019 • Web-based tool *Biomole* (Marjan Eggermont, Soren Knudsen, Richard Pusch, Sheelagh Carpendale) launch Sept.24, <https://asknature.org/asknature-labs/> and [biomole.asknature.org](https://github.com/sknudsen/biomole) and <https://github.com/sknudsen/biomole> (code), accessed Sept. 24
- 2017 • *Science of Seeing: Essays on Nature from Zygote Quarterly* by Adelheid Fischer, Editors T. McKeag, N. Hoeller and M. Eggermont, ZQ Books, July 2017.
- 2011 • M. Eggermont, *Turbo Mole Biomimicry and bio-inspired drawings by engineering students* Web publication Winter 2011, https://issuu.com/eggermont/docs/bio_drawing_sample
- M. Eggermont, *With a pencil? Concept drawings by engineering students*, Special Snowflake Design Inc. Web publication Summer 2011.
- 2010 • M. Eggermont, *The Magnificent Seven: First year engineering drawings and sketches*, Web publication December 2010, https://issuu.com/eggermont/docs/binder1_engg_drawings_temp
- M. Eggermont, C. McDonald *Technical concept & design sketching videos* Web publication (Vimeo) September 2010.
- 2008 • M. Eggermont, C. McDonald, Philip du Plessix, and Jan Krikke *Basic Sketching* Pearson Publishing September 2008, ISBN 0555012034.

Book chapters/Published Conference Proceedings (book format)

- 2025 • M. Eggermont, "life in a parallel universe" in *Mythologies Of Outer Space*, Edited by Jim Ellis and Noreen Humble, University of Calgary Press, 2025, ISBN 978-1-77385-587-5. <https://ucp.manifoldapp.org/projects/9781773855882>
- 2022 • M. Eggermont, "Nature can inspire the things we make and why it matters," in *Design Praxiology and Phenomenology: Understanding Ways of Knowing through Inventive Practices*, Beaumie Kim & Lynde Tan Editors, Springer, September 2022. https://link.springer.com/chapter/10.1007/978-981-19-2806-2_5
- M. Eggermont, "A Bio-inspired design and space challenges cornerstone project," in *Biomimicry for Aerospace: Technology*

- and Applications, ISBN - 978 012 821 074 1, Elsevier publication, February 2021. <https://www.sciencedirect.com/science/article/pii/B9780128210741000049>
- 2016 • M. Eggermont, "Made in Calgary: An Exploration of Art from the 1960s to the 2000s", Glenbow Museum, pp. 301, <https://www.amazon.ca/Made-Calgary-Exploration-1960s-2000s/dp/1895379644>
- 2010 • R. Fauvel, M. Eggermont "Pedagogy of Science in Engineering" ASME 2010 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference (DETC2010) ISBN 978-0-7918-3881-5
- 2009 • M. Eggermont "The Origin of Thought" (commission for a painting) Advanced Imaging in Biology and Medicine Technology, Software Environments, Applications ISBN 978-3-540-68992-8, Edited by: Christoph Sensen & Benedikt Hallgrimsson, Springer 2009.
- 2008 • M. Eggermont, Colin McDonald and Phil du Plessix "Engineering sketching, gesture drawing and 'how-to' videos to improve visualization" New Perspectives in Design Education ISBN 1-904670-03-2, p. 687, Vol II.
- M. Eggermont "Biomimetics as problem-solving, creativity and innovation tool in a first year Engineering Design and Communication course", Design and Nature IV: Ecology and the Environment ISBN 978-1-84564-120-7, Edited by: C.A. BREBBIA, Wessex Institute of Technology, UK.
- 2006 • "Marjan Eggermont" pp. 112 – 114, Richard Noyce, Printmaking at the Edge: 45 Artists: 16 Countries: a New Perspective London: A & C Black, 2006, <https://www.amazon.ca/Printmaking-Edge-Artists-Countries-Perspective/dp/0713667842>

Journal papers

- 2025 • Shoshanah Jacobs *, Jindong Zhang, Emily Wolf, Elizabeth Porter, Shelby Bohn, Adam Sparks, Marjan Eggermont, Mindi Summers, Claudia I.R. Rivera, Heather Clitheroe, Daniel Gillis, M. Alex Smith, Karina Benessaiah, Andria Jones, Adam Davies, Michael Helms, Dawn Bazely, Mark Lipton, Dave Dowhaniuk, Nyssa van Vierssen Trip, Nikoleta Zampaki, Peggy Karpouzou, Kristina Wanieck (2025). Are ecosystem services replaceable by technology yet? Bio-inspired technologies for ecosystem services: Challenges and opportunities. *Biomimetics*, 10(11), 784; <https://doi.org/10.3390/biomimetics10110784>
- Wanieck, K., Smith, M. A., Porter, E., Zhang, J., Dowhaniuk, D., Jones, A., Gillis, D., Lipton, M., Myrie, M. H., Bazely, D., Eggermont, M., Summers, M., Smylitopoulos, C., Rivera Cárdenas, C.I., Wolf, E., Karpouzou, P., Zampaki, N., Clitheroe, H., Davies, A., Castillo, A.H; Helms, M.; Benessaiah, K.; Jacobs, S.* (2025). A Call for Bio-Inspired Technologies: Promises and Challenges for Ecosystem Service Replacement. *Biomimetics*, 10(9), 578; <https://doi.org/10.3390/biomimetics10090578>
- 2023 • Gatti Junior, W., Marasco, E., Kim, B., Behjat, L., & Eggermont, M. (2023). How ChatGPT can inspire and improve serious board game design. *International Journal of Serious Games*, 10(4), 33–54. <https://doi.org/10.17083/ijsg.v10i4.645>
- 2022 • Jacobs S, Eggermont M, Helms M, Wanieck K. (2022) The Education Pipeline of Biomimetics and Its Challenges. *Biomimetics*; 7(3):93. <https://doi.org/10.3390/biomimetics7030093>
- 2017 • Emily Marasco, Wilian Gatti Junior, Beaumie Kim, Laleh Behjat, Marjan Eggermont. Curious Conversations: Using Game-Based Learning to Develop Creative Culture within Technical Courses. *Papers on Postsecondary Learning and Teaching*, Proceedings of the University of Calgary Conference on Postsecondary Learning and Teaching, Vol

- 2 (2017) ISSN: 2560-6050. <https://journalhosting.ucalgary.ca/index.php/pplt/article/view/42653>
- Thomas A. O'Neill, Genevieve C. Hoffart, Matthew M. J. W. McLarnon, Hayden J. Woodley, Marjan Eggermont, William Rosehart, and Robert Brennan. Constructive Controversy and Reflexivity Training Promotes Effective Conflict Profiles and Team Functioning in Student Learning Teams, *Academy of Management Learning & Education* June 2017; Vol. 16, No. 2 ; 16:257-276 doi:10.5465/amle.2015.0183 <http://amle.aom.org/content/16/2/257.abstract>.
- 2016 • M. Eggermont & T. McKeag, *Zygote Quarterly: A Free Online Journal About Biomimicry, Bio-inspired Design, and Engineering, Insight*, Volume 19, Issue 1, April 2016, pp.50-52.
- 2015 • O'Neill, T. A., Deacon, A., Larson, N., Hoffart, G., Brennan, R., Eggermont, M., & Rosehart, W. (R&R1) "Life-long learning, conscientious disposition, and longitudinal measures of academic engagement in engineering design teamwork." *Learning and Individual Differences*.
- 2010 • M. Eggermont, D. Caswell, S. Lockwood & M. Khurshid "A First Year Engineering Affordable Housing Design Project." *Design Principles and Practices: An International Journal*, Volume 5, Issue 3, pp.419-440, ISSN 1833-1874, <http://www.commonground.cgpublisher.com/product/pub.154/prod.601>
- M. Eggermont, R. Brennan, and T. Freiheit "Improving A Capstone Design Course Through Mindmapping" *Advances in Engineering Education*, Spring 2010 Volume 2 Number 1, <http://advances.asee.org/publication/improving-a-capstone-design-course-through-mindmapping/>
- 2009 • M. Eggermont & S. Lockwood "Communicating Design: 750 First Year Engineering Students, A Writer-in-Residence and An Artist-in-Residence" *Design Principles and Practices: An International Journal*, Vol 3, Number 4, ISSN 1833-1874.
- 2004 • C.R. Johnston, D.J. Caswell, M. Eggermont, D. Douglas "Fostering Creative Problem Solving in a Multi-Disciplinary Environment" *Society of Teaching And Learning In Higher Education*. Published as a Monograph.

Web-based Journals and Magazines (*Zygote Quarterly*, *Thirst* & *Journal of Computational Media Design*) edited, designed, and published:

- 2026 • *Zygote Quarterly* (ZQ). Issue 41. Editors: Marjan Eggermont, Shoshanah Jacobs, Norbert Hoeller. August 2026. <http://zqjournal.org/> ISSN 1927-8314.
- *Zygote Quarterly* (ZQ). Issue 40. Editors: Marjan Eggermont, Tom McKeag, Norbert Hoeller. April 2026. <http://zqjournal.org/> ISSN 1927-8314.
- 2025 • *Zygote Quarterly* (ZQ). Issue 39. Editors: Marjan Eggermont, Tom McKeag, Norbert Hoeller. December 2025. <http://zqjournal.org/> ISSN 1927-8314.
- *Zygote Quarterly* (ZQ). Issue 38. Editors: Marjan Eggermont, Tom McKeag, Norbert Hoeller. August 2025. <http://zqjournal.org/> ISSN 1927-8314.
 - *Thirst*. Volume 2, 2025. August 2025. Editors: Kerry Black, Martyn Clark, and Marjan Eggermont. <https://research.ucalgary.ca/research/our-impact/water>
 - *Zygote Quarterly* (ZQ). Issue 37. Editors: Marjan Eggermont, Tom McKeag, Norbert Hoeller. May 2025. <http://zqjournal.org/> ISSN 1927-8314.
- 2024 • *Zygote Quarterly* (ZQ). Issue 36. Editors: Marjan Eggermont, Tom McKeag, Norbert Hoeller. Dec 2024. <http://zqjournal.org/> ISSN 1927-

- 8314.
- Thirst. Volume 1, 2024. Editors: Kerry Black, Martyn Clark, and Marjan Eggermont. <https://research.ucalgary.ca/research/our-impact/water>
 - Zygote Quarterly (ZQ). Issue 35. Editors: Marjan Eggermont, Tom McKeag, Norbert Hoeller. July 2024. <http://zqjournal.org/> ISSN 1927-8314.
- 2023
- Zygote Quarterly (ZQ). Issue 34. Editors: Marjan Eggermont, Tom McKeag, Norbert Hoeller. Dec 2023. <http://zqjournal.org/> ISSN 1927-8314.
 - Zygote Quarterly (ZQ). Issue 33. Editors: Marjan Eggermont, Tom McKeag, Norbert Hoeller. July 2023. <http://zqjournal.org/> ISSN 1927-8314.
- 2022
- Zygote Quarterly (ZQ). Issue 32. Editors: Marjan Eggermont, Tom McKeag, Norbert Hoeller. Dec 2022. <http://zqjournal.org/> ISSN 1927-8314.
 - Zygote Quarterly (ZQ). Issue 31. Editors: Marjan Eggermont, Tom McKeag, Norbert Hoeller. May 2022. <http://zqjournal.org/> ISSN 1927-8314.
- 2021
- Zygote Quarterly (ZQ). Issue 30. Editors: Marjan Eggermont, Tom McKeag, Norbert Hoeller. December 2021. <http://zqjournal.org/> ISSN 1927-8314.
 - Zygote Quarterly (ZQ). Issue 29. Editors: Marjan Eggermont, Tom McKeag, Norbert Hoeller. May 2021. <http://zqjournal.org/> ISSN 1927-8314.
- 2020
- Zygote Quarterly (ZQ). Issue 28. Editors: Marjan Eggermont, Tom McKeag, Norbert Hoeller. September 2020. <http://zqjournal.org/> ISSN 1927-8314.
 - Zygote Quarterly (ZQ). Issue 27. Editors: Marjan Eggermont, Tom McKeag, Norbert Hoeller. March 2020. <http://zqjournal.org/> ISSN 1927-8314.
- 2019
- Zygote Quarterly (ZQ). Issue 26. Editors: Marjan Eggermont, Tom McKeag, Norbert Hoeller. September 2019. <http://zqjournal.org/> ISSN 1927-8314.
 - Zygote Quarterly (ZQ). Issue 25. Editors: Marjan Eggermont, Tom McKeag, Norbert Hoeller. May 2019. <http://zqjournal.org/> ISSN 1927-8314.
- 2018
- Zygote Quarterly (ZQ). Issue 24. Editors: Marjan Eggermont, Tom McKeag, Norbert Hoeller. December 2018. <http://zqjournal.org/> ISSN 1927-8314.
 - Zygote Quarterly (ZQ). Issue 23. Editors: Marjan Eggermont, Tom McKeag, Norbert Hoeller. August 2018. <http://zqjournal.org/> ISSN 1927-8314.
 - Zygote Quarterly (ZQ). Issue 22. Editors: Marjan Eggermont, Tom McKeag, Norbert Hoeller. March 2018. <http://zqjournal.org/> ISSN 1927-8314.
- 2017
- Zygote Quarterly (ZQ). Issue 21. Editors: Marjan Eggermont, Tom McKeag, Norbert Hoeller. November 2017. <http://zqjournal.org/> ISSN 1927-8314.
 - Zygote Quarterly (ZQ). Issue 20. Editors: Marjan Eggermont, Tom McKeag, Norbert Hoeller. June 2017. <http://zqjournal.org/> ISSN 1927-8314.
 - Zygote Quarterly (ZQ). Issue 19. Editors: Marjan Eggermont, Tom McKeag, Norbert Hoeller. February 2017. <http://zqjournal.org/> ISSN 1927-8314.
 - Zygote Quarterly (ZQ). Special Issue 18. Editors: Marjan Eggermont, Tom McKeag, Norbert Hoeller. January 2017. <http://zqjournal.org/> ISSN 1927-8314.
- 2016
- Zygote Quarterly (ZQ) en Español. Issue 15. Editors: Marjan Eggermont, Tom McKeag, Norbert Hoeller, Raul de Villafranca, Acuzena Garca, Carolyn Aguilar. December 2016. <http://zqjournal.org/> ISSN 1927-

8314.

• Zygote Quarterly (ZQ). Issue 17. Editors: Marjan Eggermont, Tom McKeag, Norbert Hoeller. October 2016. <http://zqjournal.org/> ISSN 1927-8314.

• Zygote Quarterly (ZQ). Issue 16. Editors: Marjan Eggermont, Tom McKeag, Norbert Hoeller. June 2016. <http://zqjournal.org/> ISSN 1927-8314.

• Zygote Quarterly (ZQ) en Español. Issue 14. Editors: Marjan Eggermont, Tom McKeag, Norbert Hoeller, Raul de Villafranca, Acuzena Garca, Carolyn Aguilar. May 2016. <http://zqjournal.org/> ISSN 1927-8314.

• Zygote Quarterly (ZQ) en Español. Issue 13. Editors: Marjan Eggermont, Tom McKeag, Norbert Hoeller, Raul de Villafranca, Acuzena Garca, Carolyn Aguilar. March 2016. <http://zqjournal.org/> ISSN 1927-8314.

• Zygote Quarterly (ZQ). Issue 15. Editors: Marjan Eggermont, Tom McKeag, Norbert Hoeller. February 2016. <http://zqjournal.org/> ISSN 1927-8314.

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• Zygote Quarterly (ZQ). Issue 14. Editors: Marjan Eggermont, Tom McKeag, Norbert Hoeller. October 2015. <http://zqjournal.org/> ISSN 1927-8314.

• Zygote Quarterly (ZQ) en Español. Issue 12. Editors: Marjan Eggermont, Tom McKeag, Norbert Hoeller, Raul de Villafranca, Carolyn Aguilar. August 2014. <http://zqjournal.org/> ISSN 1927-8314.

• Zygote Quarterly (ZQ). Issue 13. Editors: Marjan Eggermont, Tom McKeag, Norbert Hoeller. June 2015. <http://zqjournal.org/> ISSN 1927-8314.

• Zygote Quarterly (ZQ). Issue 12. Editors: Marjan Eggermont, Tom McKeag, Norbert Hoeller. March 2015. <http://zqjournal.org/> ISSN 1927-8314.

2014

• Zygote Quarterly (ZQ) en Español. Issue 4. Editors: Marjan Eggermont, Tom McKeag, Norbert Hoeller, Raul de Villafranca, Carolyn Aguilar. December 2014. <http://zqjournal.org/> ISSN 1927-8314.

• Zygote Quarterly (ZQ). Issue 11. Editors: Marjan Eggermont, Tom McKeag, Norbert Hoeller. October 2014. <http://zqjournal.org/> ISSN 1927-8314.

• Zygote Quarterly (ZQ). Issue 10. Editors: Marjan Eggermont, Tom McKeag, Norbert Hoeller. July 2014. <http://zqjournal.org/> ISSN 1927-8314.

• Zygote Quarterly (ZQ) en Español. Issue 3. Editors: Marjan Eggermont, Tom McKeag, Norbert Hoeller, Raul de Villafranca, Carolyn Aguilar. June 2014. <http://zqjournal.org/> ISSN 1927-8314.

• Zygote Quarterly (ZQ). Issue 9. Editors: Marjan Eggermont, Tom McKeag, Norbert Hoeller. April 2014. <http://zqjournal.org/> ISSN 1927-8314.

• Zygote Quarterly (ZQ). Issue 8. Editors: Marjan Eggermont, Tom McKeag, Norbert Hoeller. January 2014. <http://zqjournal.org/> ISSN 1927-8314.

• Zygote Quarterly (ZQ) en Español. Issue 1. Editors: Marjan Eggermont, Tom McKeag, Norbert Hoeller, Raul de Villafranca, Carolyn Aguilar. January 2014. <http://zqjournal.org/> ISSN 1927-8314.

• Zygote Quarterly (ZQ) en Español. Issue 2. Editors: Marjan Eggermont, Tom McKeag, Norbert Hoeller, Raul de Villafranca, Carolyn Aguilar. January 2014. <http://zqjournal.org/> ISSN 1927-8314.

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• Zygote Quarterly (ZQ). Issue 7. Editors: Marjan Eggermont, Tom McKeag, Norbert Hoeller. September 2013. <http://zqjournal.org/> ISSN 1927-8314.

• Zygote Quarterly (ZQ). Issue 6. Editors: Marjan Eggermont, Tom McKeag, Norbert Hoeller. June 2013. <http://zqjournal.org/> ISSN 1927-8314.

• Zygote Quarterly (ZQ). Issue 5. Editors: Marjan Eggermont, Tom McKeag, Norbert Hoeller. March 2013. <http://zqjournal.org/> ISSN

- 2012
- 1927-8314.
 - Zygote Quarterly (ZQ). Issue 4. Editors: Marjan Eggermont, Tom McKeag, Norbert Hoeller. December 2012. <http://zqjournal.org/> ISSN 1927-8314.
 - Journal of Computational Media Design. Issue 5. Flock and Awe Publishing. Editors: Laurel Johannesson + Marjan Eggermont. November 2012. https://issuu.com/eggermont/docs/cmdj05_final_2 ISSN 1925-5691
 - Zygote Quarterly (ZQ). Issue 3. Editors: Marjan Eggermont, Tom McKeag, Norbert Hoeller. September 2012. <http://zqjournal.org/> ISSN 1927-8314.
 - Zygote Quarterly (ZQ). Issue 2. Editors: Marjan Eggermont, Tom McKeag, Norbert Hoeller. June 2012. <http://zqjournal.org/> ISSN 1927-8314.
 - Journal of Computational Media Design. Issue 4. Flock and Awe Publishing. Editors: Laurel Johannesson + Marjan Eggermont. June 2012. <https://issuu.com/eggermont/docs/cmdj04> ISSN 1925-5691
 - Zygote Quarterly (ZQ). Issue 1. Editors: Marjan Eggermont, Tom McKeag, Norbert Hoeller. March 2012. <http://zqjournal.org/> ISSN 1927-8314.
- 2011
- Journal of Computational Media Design. Issue 3. Flock and Awe Publishing. Editors: Laurel Johannesson + Marjan Eggermont. December 2011. https://issuu.com/eggermont/docs/cmdj_issue3 ISSN 1925-5691
 - Journal of Computational Media Design. Issue 2. Flock and Awe Publishing. Editors: Laurel Johannesson + Marjan Eggermont. June 2011. https://issuu.com/eggermont/docs/cmdj_issue2 ISSN 1925-5691
- 2010
- Journal of Computational Media Design. Issue 1. Flock and Awe Publishing. Editors: Laurel Johannesson + Marjan Eggermont. February 2011. https://issuu.com/eggermont/docs/cmdj_issue01a ISSN 1925-5691 2010

Conference papers/posters/workshops (refereed)

- 2026
- Anibal Hernan Castillo, Kristina Wanieck, M. Alex Smith, Elizabeth Porter, Jindong Zhang, Dave Dowhaniuk, Andria Jones, Dan Gillis, Mark Lipton, Marsha Hinds Myrie, Dawn Bazely, Marjan Eggermont, Mindi Summers, Christina Smylitopoulos, Claudia I.R. Rivera, Emily Wolf, Peggy Karpouzou, Nikoleta Zampaki, Heather Clitheroe, Adam Davies, Michael Helms, Karina Benessaiah, Shoshanah Jacobs, *Bio-Inspired Manufactured Ecosystems: Transdisciplinary Pathways for Replacing Soil Ecosystem Services (poster)*, 4th Global Soil Biodiversity Conference, Victoria, British Columbia, Canada, April 13.
- 2025
- Chetan Gupta, Nicolas Leo Moreira, Parita Patel, Lynny Sharp, Natalie Zardecki, Celia Lee, Dr. Mindi Summers, and Dr. Marjan Eggermont *The Chickadee Challenge: Enhancing Environmental and Biodiversity Education in Youth to Inspire Biomimetic Design for Biomedical Applications (poster)*, 26th Annual Alberta Biomedical Engineering Conference, Oct. 24 -26 | Canmore, AB.
 - Poornima Jayasinghe, Robyn Paul, Sumaya Nsair, Marjan Eggermont *Integrating Engineering for One Planet Principles in Engineering Design Curriculum* Proceedings of the 2025 ASEE Annual Virtual Conference, June 22-25, Montreal.
- 2024
- Marjan Eggermont *Let's get physical: from data visualization to data physicalization*, Proceedings of the 2024 ASEE Annual Virtual Conference, June 23-26, Portland.
 - Azpeitia García, A. M., Eggermont, M. J., and Rivera Cárdenas, C.

- I.: *Nature-based solutions to capture atmospheric pollutants in urban ecosystems*, EGU General Assembly 2024, Vienna, Austria, 14–19 Apr 2024, EGU24-377, <https://doi.org/10.5194/egusphere-egu24-377>, 2024.
- E. Marasco, L. Behjat, M. Eggermont, W. Gatti, B. Kim (2024). Examining Effective Technology Integration in Experiential Learning. 8th International STEM in Education Conference, International Society for STEM in Education, Canada [Online].
 - Alison McKenny, Raye Isip, Annicia Phu, and Marjan Eggermont, *Visualizing biomimicry strategies (poster)*, Biocene 2023 Transforming Materials, Oct 18 – 20, 2023, Cleveland.
 - Siobhan O'Dell, Rachael Rode, Nicholas Wong, Lawrence Cabatuando, Hannah Kennedy, and Marjan Eggermont, *Visualizing biomimicry strategies 2 (poster)*, Biocene 2023 Transforming Materials, Oct 18 – 20, 2023, Cleveland.
 - Laleh Behjat, Marjan Eggermont, Emily Marasco, University of Calgary, Canada and Wilian Gatti Junior, Ambrose University, Canada, *This is not a Game: The Wicked Sustainability Problem*, 17th European Conference on Games Based Learning ECGBL 2023, 5-6 October 2023, University of Twente, The Netherlands.
 - Laleh Behjat, Marjan Eggermont, Emily Marasco, University of Calgary, Canada and Wilian Gatti Junior, Ambrose University, Canada, *Starting Diversity, Equity and Inclusion Conversations with the Game of Chutes-and-Ladders*, 17th European Conference on Games Based Learning ECGBL 2023, 5-6 October 2023, University of Twente, The Netherlands.
 - W. Gatti Jr., B. Kim., L. Behjat, E. Marasco, M. Eggermont. (2023). Game design as reflective pedagogy in entrepreneurship education. European Conference on Games Based Learning, Enschede, Netherlands.
 - Robyn Paul, Marjan Eggermont and Emily Marasco, *Sustainable Systems Engineering Program: Meeting the needs of all within the means of the planet*, 19th International CDIO Conference, NTNU Norway, June 29-29.
 - Kevin Duclos, Michaela Seal, Rob Alexander, Dr. Sarah Anderson, Arminty Carson, Dr. Marjan Eggermont, Dr. Mindi Summers *Natura ex machina: Digitization as a teaching and learning tool in biology*, Poster, Undergraduate Biology Educators of Alberta (UBEA), May 11.
 - Kevin Duclos, Michaela Seal, Rob Alexander, Dr. Sarah Anderson, Arminty Carson, Dr. Marjan Eggermont, Dr. Mindi Summers *Natura ex machina: Digitization as a teaching and learning tool in biology*, Digital Poster, University of Calgary Conference on Postsecondary Learning and Teaching April 26-28.
- 2022
- Victoria Matthew, Surbhi Godsay Lipkin-Moore, Jeffery M Plumblee, Pedro E. Arce, Andrea Arce-trigatti, Nathalie Lavoine, Lucian Lucia, Emre Selvi, Ron Edelen, Marjan Eggermont, Murat Tiryakioglu, and Justin R. Hall *A Roadmap for the Design and Implementation of Communities of Practice for Faculty Development*, Proceedings of the 2022 ASEE Annual Virtual Conference, Minneapolis, Minnesota, June 26-29.
 - Robyn Paul and Marjan Eggermont, *Sustainable Systems Engineering Course Design: Design for Systems and Society*, Canadian Education Engineering Association (CEEA) proceedings, June 18 - 22, Toronto.
- 2021
- Robyn Paul, Gillian Ayers, Joule Bergerson, Kerry Black, Tanya Brucker, Caroline Dawoud, Marjan Eggermont, Andy Knight, Sean McCoy, Elena Rangelova, David Wood *New Sustainable Systems Engineering Program Proposal – Mindset and Development*, Canadian Education Engineering Association (CEEA) proceedings, June 20-23, Charlottetown, PEI.
 - E. Marasco, W. Gatti Junior, M. Eggermont, L. Behjat, B. Kim *Games*

- as a Pedagogical Tool to Develop Engineering Graduate Attributes (workshop), Canadian Education Engineering Association (CEEA) proceedings, June 20-23, Charlottetown, PEI.
- L. Behjat, E. Marasco, W. Gatti Junior, M. Eggermont, B. Kim *Promoting equity, diversity and inclusion through peer mentorship and game play* Conference on Postsecondary Learning and Teaching Online event, May 5, 2021.
 - R. Paul, L. Behjat, R. Brennan, M. Eggermont *An ecofeminist deconstruction of STEM culture and the effects on STEM mentorship relationships* Conference on Postsecondary Learning and Teaching Online event, May 5, 2021.
- 2020
- Marjan Eggermont *Small Teaching via Bloom's*, Proceedings of the 2020 ASEE Annual Virtual Conference, June.
 - Marjan Eggermont and Robyn Paul, *Developing Holistic Engineering Competencies in a Bio-inspired Design Course*, Canadian Education Engineering Association (CEEA) proceedings, June 18-21.
- 2019
- Marjan Eggermont, Soren Knudsen, Richard Pusch, Sheelagh Carpendale, *Biomole: Visualizing Functional Co-occurrence (poster)*, IEEE VIS 2019, <https://sorenknudsen.com/wp-content/uploads/2019/09/2019-IEEE-VIS-2019-Posters-Eggermont-Knudsen-Pusch-and-Carpendale.-Biomole-Visualizing-Functional-Co-Occurrence.pdf>, Oct 20-25, Vancouver.
 - M. Eggermont, *Zygote Quarterly + Visualization in bio-inspired design (webinar)*, Communities of practice in Natural Systems, INCOSE International Workshop, January 26-29, Torrance, CA
- 2018
- Emily Marasco, William Gatti Junior, Alex Mah, Beaumie Kim, Laleh Behjat, and Marjan Eggermont *Students as co-designers for learning through collaborative game development*, Conference on Postsecondary Learning and Teaching, May 1-2, University of Calgary
- 2017
- M. Eggermont "A Bio-Inspired Design and Space Challenges Cornerstone Project" (presentation), Summit 2017: Nature-Inspired Exploration for Aerospace (NIEA), Oct 3-6, Cleveland, OH.
 - Taylor Wong & M. Eggermont *Biomimicry Project: Nature-inspired Exploration on Earth and in Space (poster)*, Summit 2017: Nature-Inspired Exploration for Aerospace (NIEA), Oct 3-6, Cleveland, OH.
 - Nicholas Wong & M. Eggermont *Water Capturing Material Based on Spider Webs (poster)*, Summit 2017: Nature-Inspired Exploration for Aerospace (NIEA), Oct 3-6, Cleveland, OH.
 - Chantalle Maundy & M. Eggermont *To Mars and Beyond: A Hornet's View of Space (poster)*, Summit 2017: Nature-Inspired Exploration for Aerospace (NIEA), Oct 3-6, Cleveland, OH.
 - Anthony T. Demong & M. Eggermont *How the Pipevine's Quick Healing could Upgrade the Wheel (poster)*, Summit 2017: Nature-Inspired Exploration for Aerospace (NIEA), Oct 3-6, Cleveland, OH.
 - Lawrence Cabatuando & M. Eggermont *The Gecko and The Glove (poster)*, Summit 2017: Nature-Inspired Exploration for Aerospace (NIEA), Oct 3-6, Cleveland, OH.
 - Hannah Kennedy & M. Eggermont *Bio-Inspired Design for a Mars Landing Incorporating Strategies used by Pea Aphids and Flying Frogs (poster)*, Summit 2017: Nature-Inspired Exploration for Aerospace (NIEA), Oct 3-6, Cleveland, OH.
 - Joshua Arpon & M. Eggermont *Biomimicry: Surgical Stability Inspired by Nature's Wonders (poster)*, Summit 2017: Nature-Inspired Exploration for Aerospace (NIEA), Oct 3-6, Cleveland, OH.
 - Maria Hernandez & M. Eggermont *Sand Storm Self-Cleaning System Taking Inspiration from the Common Bumblebee (poster)*, Summit 2017: Nature-Inspired Exploration for Aerospace (NIEA), Oct 3-6, Cleveland, OH.
 - Hojin (Christopher) Kim & M. Eggermont *Flying Forward with New Wings (poster)*, Summit 2017: Nature-Inspired Exploration for

- Aerospace (NIEA), Oct 3-6, Cleveland, OH.
- Siobhan O'Dell & M. Eggermont *Slime Mold Leading The Way in Deep Space Navigation (poster)*, Summit 2017: Nature-Inspired Exploration for Aerospace (NIEA), Oct 3-6, Cleveland, OH.
 - M. Eggermont, A. F. Hepp, V. Shyam "Pigs in Space: A Bio-Inspired Design and Space Challenges Cornerstone Project", Proceedings of the 2017 ASEE Annual Conference, Columbus, OH, June 25-28.
 - M. Eggermont, A. F. Hepp, V. Shyam "Pigs in Space – The workshop: Doing Biomimicry", Proceedings of the 2017 ASEE Annual Conference, Columbus, OH, June 25-28.
 - M. Eggermont and C. McDonald "I miss my pencil III" Advanced workshop, CDIO Calgary, June 18-23.
 - M. Eggermont "Biomimicry and resilience", Canadian Institute of Planners *Building Resilience*, June 17-20, Calgary Hyatt.
 - N. Larson, G. C. Hoffart, T. A. O'Neill, M. Eggermont, & R. Rosehart *Building and Tracking Interpersonal and Teamwork Skills in Engineering Students (workshop)*, Canadian Education Engineering Association (CEEAA), June 4-7.
 - Emily Marasco, Wilian Gatti Jr., Laleh Behjat, Beaumie Kim, Marjan Eggermont "Curious Conversations: Using game-based learning to develop creative culture within technical courses" Conference on Postsecondary Learning and Teaching, May 2-3, University of Calgary.
 - Bon Adriel Aseniero, Charles Perin, Marjan Eggermont, Sheelagh Carpendale *Fireflies: Biomimicry-Inspired InfoVis for Exploring Public Opinion about an Infectious Disease (poster)* (InfoVis Honorable Mention), IEEE VIS 2016, Oct 23-28, Baltimore, MD.
 - Bon Adriel Aseniero, Charles Perin, Marjan Eggermont, Sheelagh Carpendale. *Fireflies: Expressive Infovis Inspired by Biomimicry*. In Demo, IEEE VIS 2016 Arts Program (VISAP'16 Metamorphoses). IEEE, 2016.
 - Marjan Eggermont, Charles Perin, Bon Adriel Aseniero, Roxane Fallah, and Sheelagh Carpendale "Leveraging Biological Inspiration in an Information Visualization Class" | *Pedagogy of Data Visualization Workshop*, IEEE VIS 2016, Oct 23, Baltimore, MD.
 - Patrick Ma, Austin Thomas, Amanda Mackey, Joel Neumann, Craig Martis, Zafeer Kara, Mustafa Hasan Shehadeh, and Marjan Eggermont *Issus coleoptratus insect gears: Bio-inspired design for biomedical application (poster)*, 17th Annual Alberta Biomedical Engineering Conference, Oct 22, Banff, AB.
 - E. Marasco, M. Eggermont, M. Moshirpour, L. Behjat, R. Hugo, W. Rosehart *Using Gamification Tools for Engagement in Electrical and Computer Engineering Classrooms* 2016 Frontiers in Education (FIE) conference, Erie, PA, Oct 12 - 15.
 - Eggermont, M. *Zygote Quarterly: An open-source bio-inspired design journal* Biomimicry Summit and Education Forum (BSEF) for Aerospace in collaboration with NASA, Aug 2-4.
 - Larson, N. L., Hoffart, G. C., O'Neill, T. A., Eggermont, M., & Rosehart, W. *Team Learning Behaviors: Supporting Team-Based Learning in a First-Year Design and Communications Course* Proceedings of the 2016 ASEE conference, New Orleans, June 26-29.
 - L. Vathje, K. Davies, R. Brennan, & M. Eggermont *Assessing the Efficacy of Supplemental Online Lecture Modules in a Core Mechanical Engineering Undergraduate Course* Proceedings of the 2016 ASEE conference, New Orleans, June 26-29.
 - Eggermont, M. "Duct tape is magic and should be worshipped": *Fiction in a first year design and communication class* Proceedings of the 2016 ASEE conference, New Orleans, June 26-29.
 - Eggermont, M. & Onen, D. *What flies like a dragonfly and swims like an eel? Bio-inspired design cornerstone projects* Proceedings of the 2016 ASEE conference, New Orleans, June 26-29.

2015

- Eggermont, M., Onen, D., Lichti, D., & Petovello, M. "Not all those who wander are lost": route finding in first year engineering design (poster) Proceedings of the 2016 ASEE conference, New Orleans, June 26-29.
- Lauren Jatana, Robert Brennan, Marjan Eggermont *Slicing and dicing Community Engaged Learning in Engineering Education*, CEEA16, Dalhousie University; June 19 – 22.
- M. Eggermont *Information Visualization with a Focus on Biomimetic Visualization (lightening talk)*, Information+, Emily Carr University of Art + Design, Vancouver, June 16-18, <https://vimeo.com/179990441>.
- L. Jatana, & M. Eggermont *A Message Encrypted in a 3D Printed Snowflake (workshop)*, 12th International CDIO Conference, Turku, Finland, June 12-16.
- G. C. Hoffart, T. A. O'Neill, N. Larson, M. Eggermont, & R. Rosehart *Enhancing Teamwork Skills: Empirical Evidence for Training Program and Demo (workshop)*, 12th International CDIO Conference, Turku, Finland, June 12-16.
- Tom O'Neill, Robert Brennan, Marjan Eggermont, Denis Onen, Houston Peschl, Justin Weinhardt, *Creative Designs and Tools that Enhance the Learning Experience II*, 2016 University of Calgary Conference on Postsecondary Learning and Teaching/Exploring Creativity in Post Secondary Teaching and Learning, May 10 - 11.
- Lauren Vathje, Elena Rangelova, Marjan Eggermont and Robert Brennan (Canada) *Understanding Impacts and Professional Obligations to Society: Preparing Geomatics Engineers for the 21st Century*, FIG Working Week 2016, Christchurch, New Zealand, May 2-6.
- Larson, N. L., Hoffart, G. C., O'Neill, T. A., Eggermont, M., & Rosehart, W. *The Temporal Transition of Team Exploratory and Exploitative Learning*. Presented at the annual meeting of the Society for Industrial and Organizational Psychology, Anaheim, CA., April 14-16.
- Eggermont, M., Smith, C., & Hooker, G. *Tools to Bridge Science, Design and Discovery (panel)*, SXSW Eco, Austin, Oct 5-7.
- Eggermont, M., & Fischer, A. *Beyond the Lesson Plan: Adventures in Biomimicry Publishing*, Biomimicry Education Summit, Austin, Oct 4.
- Deacon, A., O'Neill, T. A., Larson, N., Eggermont, M., & Rosehart, W. D. Implementation of community-based experiential learning: Challenges, opportunities and insights. In C. Willness (Chair), *Student perceptions of service learning and non-service learning in engineering team projects*. Symposium to be presented at the annual meeting of Academy of Management, Vancouver, BC, Aug 7-11.
- Hoffart, G., Larson, N., O'Neill, T. A., McLarnon, M., Eggermont, M., Brennan, R., & Rosehart, W. *Evaluating a communication framework for team effectiveness in a first-year design and communication course*. Proceedings of the 2015 ASEE conference, Seattle, WA, June 26-29.
- Larson, N. L., Hoffart, G., O'Neill, T. A., Eggermont, M. Rosehart, W. & Brennan, R. *Team CARE model: Assessing team dynamics in first-year engineering student teams*. Proceedings of the 2015 ASEE conference, Seattle, WA, June 26-29.
- O'Neill, T. A., Park, S., Larson, N., Deacon, A., Hoffart, G., Brennan, R., Eggermont, M., & Rosehart, W. *Peer ratings and intentions to change: Adopting the CATME to explore outcomes of peer ratings*. Proceedings of the 2015 ASEE conference, Seattle, WA, June 26-29.
- Vathje, L., Eggermont, M., & Brennan, R. *MAKER: CAD + 3d Printing + Mold-Making: How to Create Custom Sterling Silver Pendants*, Proceedings of the 2015 ASEE conference, Seattle, WA, June 26-29.
- Eggermont, M., Brennan, R., & O'Neill, T.A. (2015, June). *The impact of project-based learning on self-directed learning readiness*. Paper at the annual meeting of the Conference on Engineering Education for Sustainable Development, Vancouver, CA, June 9-12.
- Thomas O'Neill, Robert Brennan, Marjan Eggermont, Houston Peschl, and Justin Weinhardt "Creative Designs and Tools that Enhance the

- Learning Experience*", Design for Learning University of Calgary Conference on Postsecondary Learning and Teaching, May 12-13.
- Lauren Jatana Vathje, Marjan Eggermont, Robert Brennan *Homes of Hope: Visualizing Social Responsibility*, CEEA15, McMaster University, May 31 – June 3.
 - Brennan, R.W. et al. *Diversity in Engineering Undergraduate Education: A Case for Noncognitive Variables in Engineering Admissions*. Proceedings of the Canadian Engineering Education Association, [S.l.], aug. 2015. ISSN 2371-5243. Available at: <<https://ojs.library.queensu.ca/index.php/PCEEA/article/view/5847>>. Date accessed: 23 oct. 2017. doi: <https://doi.org/10.24908/pceea.v0i0.5847>.
 - Tolman, Matt; Eggermont, Marjan; Hugo, Ron. *Introduction of Gamification in Common Core Engineering*. Proceedings of the Canadian Engineering Education Association, [S.l.], aug. 2015. ISSN 2371-5243. Available at: <<https://ojs.library.queensu.ca/index.php/PCEEA/article/view/5768>>. Date accessed: 23 oct. 2017. doi: <https://doi.org/10.24908/pceea.v0i0.5768>.
- 2014
- O'Neill, T. A., Hoffart, G., McLarnon, M. J. W., Eggermont, M., Rosehart, W., & Brennan, R. (2014, June). "*Constructive conflict team training: Empirical evidence and demo*". Workshop presented at the annual meeting of the Canadian Education Engineering Association, Canmore, AB.
 - Emily Marasco, Laleh Behjat, Marjan Eggermont "*Engaging first year students through crossdisciplinary design projects*", Paper presented at the annual meeting of the Canadian Education Engineering Association, Proceedings of the 2014 CEEA Conference, Canmore, June 8-11.
 - R.W. Brennan and M. Eggermont "*Student attitudes towards program placement after first year common core at the Schulich School of Engineering*", Paper presented at the annual meeting of the Canadian Education Engineering Association, Proceedings of the 2014 CEEA Conference, Canmore, June 8-11.
 - Brennan, R., Eggermont, M., Deacon, A., Larson, N., & O'Neill, T. A. (2014, June). "*Assessing life-long learning in a first-year design and communication course*". Paper presented at the annual meeting of the Canadian Education Engineering Association, Proceedings of the 2014 CEEA Conference, Canmore, AB, June 8-11.
 - A. K. Deacon, N. Larson, T. A. O'Neill, R.W. Brennan, M. Eggermont, & W. Rosehart "*The Self-Directed Learning Readiness Scale, Conscientiousness, and the Prediction of Engineering Student Learning Outcomes*", Paper presented at the annual meeting of the Canadian Education Engineering Association, Proceedings of the 2014 CEEA Conference, Canmore, June 8-11.
- 2013
- Jacquelyn Nagel, Robert Nagel, M. Eggermont "*Teaching Biomimicry with an Engineering-to-Biology Thesaurus*", (IDETC/CIE 2013) ASME, Portland, USA, Aug. 4-7.
 - M. Eggermont "*Information Graphics and Engineering Design*", Proceedings of the 2013 ASEE conference, Atlanta, June 23 - 26.
 - M. Eggermont, Jacquelyn Nagel, Curt McNamara "*Can biomimicry enhance engineering education?*", Proceedings of the 7th Annual Biomimicry Education Summit and 1st Biomimicry 3.8 Global Conference, Boston, June 21-23.
 - M. Eggermont "*Biotechnik and the Bauhaus*" (paper and poster), Proceedings of the 7th Annual Biomimicry Education Summit and 1st Biomimicry 3.8 Global Conference, Boston, June 21-23.
- 2012
- W. Rosehart and M. Eggermont "*Integration of Desired Learning Outcomes in a First Year Design Course*", CEEA 2012 Conference Proceedings ISBN 978-1-927697-00-9, June 17-20.
 - D. Filip, M. Eggermont, J. Nagel, C. Andrews, O. Yahid Pecht, M. Mintchev "*Self-stabilizing lab-on-chip for capsule-based colonic*

- biopsy*", BioSensors 2012, Mexico, May 15-18.
- S. L. Sanders, J. D. McMullen, M. Eggermont, A. Wolkowski, N. Neto, and W. Kung "*Bio-inspiration from a warm, westerly wind*", Proceedings of the WASET Zurich Conference, Jan. 15-17.
 - D. Filip, M. Eggermont, J. Nagel, C. Andrews, O. Yahid Pecht, M. Mintchev "*Electronic Stool (e-Stool): A Novel Self-stabilizing Video Capsule Endoscope for Reliable Non-invasive Colonic Imaging*" (IMECE2011-62714) ASME 2011 International Mechanical Engineering Congress IMECE 2011 [Nature-analogue implants, Medical applications and Biomimicking plants], Denver, USA, Nov. 11-17.
 - T. Veltman, W. Rosehart, M. Eggermont and D. Onen "*Evaluation and Analysis of Freshman Design Courses in Engineering*", Proceedings of the 2011 ASEE conference, Vancouver, June 26 - 29.
 - Eggermont, Marjan; McDonald, Colin. Scholarly Design?. Proceedings of the Canadian Engineering Education Association, [S.I.], aug. 2011. ISSN 2371-5243. Available at: <<https://ojs.library.queensu.ca/index.php/PCEEA/article/view/3770>>. Date accessed: 23 oct. 2017. doi: <https://doi.org/10.24908/pceea.v0i0.3770>.
 - M. Eggermont "*Engineering reasoning and visualization as analysis tools for BOP design*" Technical presentation, CDIO Copenhagen, June 20 - 23.
 - M. Eggermont and C. McDonald "*Waste = Food: Drawing with sustainable engineering principles in mind*" Advanced workshop CDIO Copenhagen, June 20 - 23.
- 2010
- R. Fauvel, M. Eggermont, D. Caswell, C. Johnston and C. McDonald "*Pedagogy of Science in Engineering*" Proceedings of the ASME 2010 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference IDETC/CIE 2010 Montreal Aug 15-18.
 - M. Eggermont and C. McDonald "*I miss my pencil II*" Advanced workshop, CDIO Montreal, June 15 - 18.
 - S. Lockwood, M. Eggermont , D. Caswell "*The challenge of consistent grading in real world, open ended design with multiple and multi-disciplinary instruction*", Proceedings of the 2010 ASEE conference, Louisville, June 20 - 23.
 - S. Lockwood, M. Eggermont , D. Caswell "*Communications instruction in first year engineering: the glue*", Proceedings of the 2010 ASEE conference, Louisville, June 20 - 23.
- 2009
- Deb Welliver , Madiha Khurshid, Marjan Eggermont "*Affordable Housing Design: A hands-on workshop for change-makers*" Engage Youth, Oct 1, 2009, workshop.
 - D. Caswell & team "*Bringing Youth, Community and Academia Together for Change: A Collaborative Engineering Teaching Model and an Affordable Housing Project*" Engage Now Oct 1, 2009.
 - M. Eggermont, D. Zegarac (U of C), J. Yen, M. Helms (Georgia Tech), C. Gould, C. Wong, C. Hastrich, B. Hinds (OCAD), S. Gibbons (U of Montana) "*What has fins like a whale, skin like a lizard, and eyes like a moth? The future of engineering*" Proceedings of the 2009 ASEE conference. Austin, Jun 14 – 17, 2009.
 - M. Eggermont, D.J. Caswell & M. Khurshid "*A First Year Engineering Affordable Housing Design Project*" Proceedings of the ASEE 2009 conference. Austin, Jun 14 – 17, 2009.
 - M. Eggermont & C. McDonald "*This is not Times New Roman: Engineering design lessons via typeface design*" Proceedings of the 2009 ASEE conference. Austin, Jun 14 – 17, 2009.
 - M. Eggermont & M. Armstrong "*Engineering sketching refinement: gesture drawing and 'how-to' videos to improve visualization*" Proceedings of the 2009 ASEE conference. Austin, Jun 14 – 17, 2009.
 - R. Brennan, M. Eggermont, W. Rosehart "*First Year Design and Communication: Challenges and Opportunities*", Proceedings of the

- CDIO2009 Conference, Singapore, June 7 – 10, 2009.
- D.J. Caswell, M. Eggermont, D. Douglas *“Including Inclusivity: The Inclusive Design Toolkit and 700 Engineers”* Include 2009 (Inclusive design conference @ The Royal College of Art, London, UK) Apr 5 – 8, 2009.
 - D.J. Caswell, M. Eggermont, D. Douglas *“Talking to the Experts: Using the Inclusive Design Toolkit in the Design Lab”* Include 2009 (Inclusive design conference @ The Royal College of Art, London, UK) Apr 5 – 8, 2009.
 - M. Eggermont & Madiha Khurshid *“Engineering Design Project on Homelessness and Affordable Housing for 750 first-years”* Growing home: housing and homelessness in Canada conference, Feb 18 – 20, Calgary.
 - M. Eggermont & Madiha Khurshid *“Root Causes of Homelessness in Canada: Consciousness-building workshop”* Growing home: housing and homelessness in Canada conference, Feb 18 – 20, Calgary.
 - M. Eggermont & S. Lockwood *“Communicating Design: 750 First Year Engineering Students, A Writer-in-Residence and An Artist-in-Residence”* Design ‘09 Symposium, Berlin, Germany, Feb 15 – 17, 2009, <https://www.youtube.com/watch?v=iSLImI94y0c>
- 2008
- M. Eggermont, Colin McDonald and Phil du Plessix *“Engineering sketching”* The 10th International Conference on Engineering and Product Design Education, Barcelona, Sep 4 – 5, 2008.
 - M. Eggermont *“Biomimetics as problem-solving, creativity and innovation tool in a first year Engineering Design and Communication course”* Design and Nature 2008, Algarve, Portugal, Jun 24 – 26, 2008.
 - M. Eggermont *“10,000 drawings a year: The performance of drawing en masse”* Advanced workshop, CDIO Ghent 2008, Ghent, Belgium, Jun 16 – 19, 2008.
- 2007
- M. Eggermont *“Biomimetics as Problem-Solving, Creativity and Innovation Tool”* CDEN/C2E2 2007 conference proceedings, Jul 22 – 24, 2007.
 - M. Eggermont, T. Freiheit, R. Brennan *“Experience and reflection on an inquiry and blended learning module for senior engineering design”* Proceedings of the 2007 ASEE conference, Honolulu, Jun 24 – 27, 2007.
 - K. Chomistek , P. du Plessix , G. Armitage, D. Douglas , C. Johnston , M. Eggermont , D. Caswell, M. Nazir , B. Knecht *“Aids for Assisted living Projects Benefit Both the Engineering Design Classroom and the Disabled Community”* Proceedings of the 2007 ASEE conference, Honolulu, Jun 24 – 27, 2007.
 - G. Armitage, K. Chomistek , P. du Plessix, D. Douglas , C. Johnston , M. Eggermont , D. Caswell , M. Nazir , B. Knecht *“Curriculum enhancement to Promote Environmental Awareness Among Engineers”* Proceedings of the 2007 ASEE conference, Honolulu, Jun 24 – 27, 2007.
 - P. du Plessix ,G. Armitage, K. Chomistek ,D. Douglas , C. Johnston , M. Eggermont, D. Caswell , M. Nazir , B. Knecht *“Tool and Safety Training as part of Engineering Design Education”* Proceedings of the 2007 ASEE conference, Honolulu, Jun 24 – 27, 2007.
 - M. Eggermont, R. Brennan, T. Freiheit *“Improving a Capstone Design Course through Blended Learning”* Capstone Design conference, Boulder, Colorado, Jun 13 – 15, 2007.
 - Caswell, D., Eggermont, M., Johnston, C.R. and Douglas, D., *“Engineering Disabilities Awareness,”* Canadian Disabilities Studies Conference, Saskatoon, Canada, May 2007.
 - M. Eggermont and R. Brennan, Second International Blended Learning Conference *“Improving a capstone design course through blended learning”* Hertsfordshire, UK, May 2007.
 - Douglas D., Johnston C.R., Caswell D.J., K. Chomistek, and

- Eggermont M *“Community Collaboration: Using inclusive design to develop a first year engineering design curriculum”* Include 2007 (Inclusive design conference @ The Royal College of Art, London, UK), Apr 1 – 4, 2007.
- M. Eggermont and R. Brennan *“Energizing design with mindmaps”* Synergize and Energize: Exploring the Dynamics of Teaching and Learning, Feb 22.
 - S. Hoenle and M. Eggermont *“Concept mapping for deeper learning”* Synergize and Energize: Exploring the Dynamics of Teaching and Learning, Feb 23.
- 2006
- M. Eggermont, T. Freiheit, R. Brennan *“An Inquiry and Blended Learning Module for Senior Engineering Design”* Proceedings of the CDEN conference, Toronto, Jul 2006.
 - Eggermont M.J., Douglas D.M., Caswell D.J., Johnston C.R. *“Engineering sketching as visualization, idea generation and communication tool”* Proceedings of the 2006 ASEE conference, Chicago, Jun 2006 (nominated for best paper in division).
 - D. Caswell, C. Johnston, M. Eggermont, O. Fauvel, D. Douglas *“A Multi-Disciplinary Approach to Design and Creative Problem Solving”* Proceedings of the 2006 ASME International Engineering education Conference, Beijing, China, Apr 2006. (Invited paper and presentation)
- 2005
- Daryl Caswell, Clifton Johnston, Rod Fauvel, Diane Douglas, Marjan Eggermont, *“Engineering Design Coaches: Faculty or Grad Students?”*, Proceedings of the 2nd CDEN conference, Kananaskis, Jul 2005.
 - R.W. Brennan, M. Eggermont, M. Shams. *“Towards Engineering Design Courseware”*, Proceedings of the 2nd CDEN conference, Kananaskis, Jul 2005.
 - Eggermont M.J., Douglas D.M., Caswell D.J., Fauvel, O.R., Johnston C.R. *“Engineering sketching as a visualization tool—Part Deux: Visualizing Engineering Concepts”*, Proceedings of the 2nd CDEN conference, Kananaskis, Jul 2005 (Referenced in "Parallels in Teaching Visual Arts and Engineering Design" by Jason Salonga, U of T for ASEE ETPL 2007).
- 2004
- Johnston C.R., Caswell D.J., Douglas D. and Eggermont M. *“Competency-Based Student-Centered Assessment Model for Engineering Design”* Proceedings of the CDEN conference, Montreal, Jul 2004.
 - Douglas D., Johnston C.R., Caswell D.J. and Eggermont M. *“Writing in the Engineering Design Lab: Integrating Communication Skills into the Engineering Curriculum”* Proceedings of the CDEN conference, Montreal, Jul 2004.
 - Caswell D.J., Johnston C.R., Douglas D., Eggermont M.J. *“Familiarization: Fostering Creative Problem Solving in Engineering Design Education”* Proceedings of the CDEN conference, Montreal, Jul 2004.
 - Eggermont M.J., Douglas D.M., Caswell D.J., Johnston C.R. *“Back to the Future: Engineering sketching as visualization, idea generation and communication tool”* Proceedings of the CDEN conference, Montreal, Jul 2004.
 - Caswell, D., Johnston, C., Fauvel, O.R., Douglas, D., Eggermont, M. *“Fundamentals of a First-Year Engineering Design and Communication Course: Familiarization, Functionality and Testing”* Proceedings of the 2004 ASEE conference, Jun 2004.
 - Caswell D.J., Johnston C.R., Douglas D., Eggermont M.J., Howard D. *“ENGG 251/253: Fostering creative problem solving in a multi-disciplinary environment”*, monograph for the 2004 Alan Blizzard Award STLHE conference.

Other Papers/Presentations/Workshops

- 2026
 - *Is the National AI strategy Sustainable?* (Cao, Behjat, Eggermont)
Presenter: Dr. Christine Cao, National AI Summit, AI Adoption, Aug. 10
 - M. Eggermont, *Artistic Corrosion workshop*, Corrosion Summer Institute 2026, NSERC CREATE Correct, June 12.
- 2024
 - Shoshanah Jacobs, Elizabeth Porter, Dave Dowhaniuk, Mark Lipton, Dawn Bazely, M. Alex Smith, Nikoleta Zampaki, Peggy Karpouzou, Marjan Eggermont, Michael Helms, Mindi Summers, Andria Jones, Christina Smylitopoulos, Heather Clitheroe, Adam Davies, Marsha Hinds Myrie, Daniel Gillis, Claudia Rivera, Karina Benessaiah and Kristina Wanieck. "Can Manufactured Ecosystems fully replace ecosystem services?" *Zygote Quarterly* 35.1 (2024): 40-53.
- 2020
 - Virtual Biocene Workshop 2020, Oct. 8-10: Education Panel moderator, Oct. 8, Vine Education cluster session "Matching learning outcomes with learning goals; BID in higher education" co-presentation with Dr. Shoshanah Jacobs, and Ideas for teaching Biom* Lightning session moderator, Oct. 9, Vine Education cluster session BID Education: Open-source education resources working session, Oct. 10.
 - Panelist for Bee-Coming a Bee Campus Webinar (Zoom), May 27, 01:00 02:00 PM.
 - M. Eggermont *Circular design and the circular economy*, workshop for ILS ENEL 300, Feb 13.
 - M. Eggermont *Inspired by Nature Engineering for Humanity* event series https://go.ucalgary.ca/Engineering-for-Humanity_LP-Engineering-for-Humanity.html, Jan. 24 and Feb. 14.
- 2019
 - M. Eggermont *ZQ and visualization in bio-inspired design*, Webinar for NASA interns, Dr. H. Schilling, and Dr. V. Shyam (NASA Glenn), Feb. 4.
- 2016
 - M. Eggermont *Bio-inspired Information Visualization (lightening talk)*, Computational Media Design Demo Day, Taylor Institute of Teaching and Learning, U of C, Oct 19.
 - M. Eggermont, *Genius of Place* workshop presented at the second Biomimicry Alberta meeting (BA02), Barrier Lake Station, Kananaskis, Oct 1.
 - M. Eggermont *Bio-inspired Information Visualization (lightening talk)*, Innovis Demo Day, Department of Computer Science, U of C, May 25.
 - M. Eggermont & C. Fiorentino. *Genius of Place Strategic Planning workshop*, Biomimicry Alberta, Banff, April 22-23.
 - Gerecke, B. & Eggermont, M. *DRAW ME A SHEEP. BUILD ME A MOON.*, Beakerhead Inflatable Art and Design Workshop, Theatre Calgary, Scenery Shop, Jan 9.
- 2015
 - M. Eggermont, webinar presentation *Zygote Quarterly Overview*. The International Council on Systems Engineering | IW2015—The INCOSE International Workshop, Natural Systems Working Group, Jan. 25.
- 2014
 - M. Eggermont, workshop presented at the first Biomimicry Alberta meeting (BA01), Barrier Lake Station, Kananaskis, Oct 4 - 5.
- 2007
 - Biomimicry Education Workshop—presented "*Biomimicry in 1st year design and communication*" University of Montana Biological Station on Flathead Lake, Jul 9 – 13, 2007.
- 2005
 - Julie N. Stromer, Gerald T. Quon, Paul M.K. Gordon, Andrei L. Turinsky, and Christoph W. Sensen "*Jabiru: Harnessing Java 3D Behaviors for Device and Display Portability*", Mar/Apr 2005 Published by the IEEE Computer Society, pp.7 – 8 (artwork discussed in paper).
- 2002
 - *Vital Illusion/The Reality of Artifice* Curatorial catalogue written for Triangle Gallery of Calgary: Times Press Ltd., 2002.
- 1999
 - *The Sky Is Falling/Remnants of the Apocalypse* Catalogue written for solo show at TNG (The New Gallery), Calgary.
Calgary: Times Press Ltd., 1999.
- 1998
 - *Notes On The Body* U of C Masters' Thesis, 1998.