Short Biography of Dr. Athyna N. Cambouris

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North American Representative Vision Statement

My journey in precision agriculture began in 1996 when I attended my first Precision Agriculture conference in Minneapolis, MN. Since then, I've actively contributed to the field, serving as both vice-leader and leader of the Precision Nitrogen Management Community from 2018 to 2022. Beginning in 2020 until 2022, I held the position of secretary on the executive board. Currently, I manage the ISPA LinkedIn page and I'm a Canada reps. My desire to make a greater impact has led me to run for this position of North American Representative. Representing all North American members would be an honor, and I'm committed to listening and defending the different challenges raised by you to the board, while achieving tangible results. **I have innovative ideas and I'm excited to present them to the executive board, always with the goal of enhancing our esteemed scientific society. Among other things, I would like to ensure that our talented student members become more involved in our various communities and on their boards.** Moreover, I'm absolutely thrilled about the upcoming 16th International Conference on Precision Agriculture! I can't wait to meet you in person this summer in Manhattan, Kansas.

Short Biography

Dr. Cambouris is currently responsible for numerous national research projects dealing with variable rate N management using soil and crop sensor systems, remote sensing, geomatics and geostatistics at the Quebec research and Development Centre of AAFC. She conducts research on the delineation of management zones based on the multifusion data encompassing soil and crop sensor systems for potato, corn, switchgrass and forage productions. Her expertise with sensors to study the spatial variability of soil properties is also well known. Dr. Cambouris is an adjunct professor at Laval University and at the *Institut National de recherche – Eau – terre – Environnement de Québec*. She has supervised or co-supervised eight M.Sc., four Ph.D. students and one postdoc. She currently manages in her laboratory three research assistants, two M.Sc. and two Ph.D. students.

Dr. Cambouris was the main investigator of the Potato Cluster project entitled "Enhancement of Canadian Potato Industry through Smart Farming" involving all Eastern Canada provinces (2018-2023). She is actively involved in the (2019-2027) Livinlab Initiatives program of AAFC in two Eastern Canada provinces where she implemented precise N management using the approach of PA (management zone, variable rate applications and UAV imagery) under potato production and studied the spatial-temporal variability of the health soil properties under corn production with intercropping and cover crops. Since 2007, Dr. Cambouris is President of the *Commission de géomatique agricole et agriculture de précision* (GAAP*)* which is the official expert committee for Precision Agriculture in the province of Quebec, Canada. Dr. Cambouris is one of the instigators within the *GAAP* Commission of a 3-day training in Precision agriculture and geomatics in the province of Quebec. This 3-day training is offered periodically all– year round since 2018. Dr. Cambouris has organized and chaired four Conferences on Precision Agriculture for the *GAAP* Commission. She is also a member of the: American Society of Agronomy, Soil Science Society of America, and the *Association Québécoise des Spécialistes en Sciences du Sol*.

Selected papers (Names underlined are under the supervision of Dr. Cambouris)

Nze Memiaghe, J. D., **Cambouris, A. N.**, Ziadi, N., & Karam, A. (2022). Tillage Management Impacts on Soil Phosphorus Variability under Maize–Soybean Rotation in Eastern Canada. *Soil Systems*, *6*(2), 45.

Lajili, A., **Cambouris, A. N.**, Chokmani, K., Duchemin, M., Perron, I., Zebarth, B. J., ... & Adamchuk, V. I. (2021). Analysis of Four Delineation Methods to Identify Potential Management Zones in a Commercial Potato Field in Eastern Canada. Agronomy, 11(3), 432.

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Coulibali, Z., Cambouris, A. N., & Parent, S. É. (2020). Cultivar-specific nutritional status of potato (Solanum tuberosum L.) crops. *Plos One*, *15*(3), e0230458.

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Bélanger, G., **Cambouris**, **A.N.,** G. Parent, D. Mongrain, N. Ziadi, I. Perron. 2017. Biomass yield from an old grass field as affected by sources of nitrogen fertilization and management zones in northern areas. Canadian Journal of Plant Science 97(1): 53-64.

Cambouris, A.N., Ziadi, N., Perron, I., Alotaibi, K.D., St. Luce, M., and Tremblay. N. 2016. Corn yield components response to nitrogen fertilizer as a function of soil texture. Canadian Journal Soil Science 96: 386–399 (2016) dx.doi.org/10.1139/cjss-2015-0134.

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