

David N. Awde

Department of Entomology, University of Kentucky
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Education

- PhD** (Biology - Ecology and Evolution) April 2019
Brock University, Ontario, Canada
Thesis: Proximate influence on eusocial caste behaviour
Supervisors: Dr. M.H. Richards and Dr. A. Skandalis
- BSc Honours Specialization** (Biology – Ecology and Evolution) May 2012
University of Western Ontario, Canada
Thesis: A pheromonal test of reproductive homology in the fly vs. bee
Supervisor: Dr. G.J. Thompson
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Professional Experience

- 2019-Present Postdoctoral Scholar, Dr. Nicholas M. Teets
Department of Entomology
University of Kentucky, USA
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Scholarships and Awards

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| 2015-2018 | NSERC Postgraduate Scholarship – Doctoral | \$63 000 |
| 2017 | Brock University Graduate Students' Association Bursary | \$300 |
| 2016 | Ontario Entomological Society AGM, Honourable mention - oral presentation | |
| 2015 | Ontario Paper, Thorold Foundation, Graduate Award | \$2 132.50 |
| 2014 | Canadian Society for Ecology and Evolution Travel Award | \$500 |
| 2013 | Department of Graduate Studies Spring Fellowship | \$3 000 |
| 2012 | Dean of Graduate Studies Entrance Scholarship | \$2 000 |
| 2012 | Best oral presentation Western Biology Department Presentation Day | |
| 2007 | Western University Admission Bursary | \$500 |
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Peer Reviewed Publications

Google Scholar Profile: <https://scholar.google.com/citations?user=L4kSlEwAAAAJ&hl=en&oi=ao>

Awde, D.N. and Richards, M.H. (2018) Investigating queen influence on worker behaviour using comparisons of queenless and queenright workers. *Insectes Sociaux* 65 (3), 367-379

Camiletti, A.L., **Awde, D.N.** and Thompson, G.J. (2014) How flies respond to honey bee pheromone: the role of the *foraging* gene on the reproductive response to queen mandibular pheromone. *Naturwissenschaften*. 101, 25-31

Teaching Experience

Instructor of Record

2018 Genes and Behaviour, Fourth year undergraduate seminar course, Brock University

Teaching Assistant

2014, '15, '17, '18 *Animal Behaviour*, Brock University (Instructors Dr. G. Tattersall and Dr. M.H. Richards)

2014, '15, '17 *Ecology*, Brock University (Instructors: Dr. D. Szuroczki and Dr. L. Vasseur)

2012, '13 *Molecular Ecology*, Brock University (Instructors: Dr. J Vickruck and Dr. M.H. Richards)

2014 *Human Physiology*, Brock University (Instructor: Dr. M. Lukewich)

2013 *Evolution*, Brock University (Instructors: Dr. M. Bidochka and Dr. A. Skandalis)

Student Mentorship Co-Supervision

2016, '17 Raadiyah Zowmi (NSERC USRA Summer undergraduate student)

2016 Sama Hettige (High school mentorship student)

2014 Nick Orrego (High school mentorship student)

Presentations

Invited Talks

Awde, D.N. Bees for newbies. The Niagara Retirees Association monthly luncheon. Niagara on the Lake, Canada. August 2017.

Awde, D.N. Bees for newbies. Landcare Niagara monthly meeting. Vineland, Canada. May 2014.

Guest Lectures

Awde, D.N. Phenotypic traits and gene expression in sweat bee castes. Principles Zoology (3th year). Brock University, March 2017.

Awde, D.N. *Vitellogenin* and reproduction in insects. Genes and Behaviour (4th year). Brock University, December 2017.

Awde, D.N. *Foraging* gene expression in insects Animal Behaviour (3rd year). Brock University, February 2016.

Awde, D.N. *Foraging* gene expression in honeybees, ants, and aphids. Molecular Ecology (3rd year). Brock University, September 2016.

Awde, D.N. Developing molecular markers for molecular ecology. Molecular Ecology (3rd year). Brock University, September 2016.

Awde, D.N. *Vitellogenin* and *foraging* gene expression in sweat bees. Animal Behaviour (3rd year). Brock University, February 2015.

Awde, D.N. *Foraging* gene expression insects. Animal Behaviour (3rd year). Brock University, February 2015.

Awde, D.N. Gene expression patterns in eusocial sweat bees using qRT-PCR. Genes and Behaviour (4th year). Brock University, March 2014.

Conference Presentations

Awde, D.N., Skandalis A. and Richards, M.H. 2018. Environmental and genetic influences on caste behaviour of a eusocial sweat bee, *Lasioglossum laevissimum*. Southern Ontario Bee Researchers Symposium, Toronto, Ontario, Canada (Oral presentation)

Awde, D.N., Skandalis A. and Richards, M.H. 2017. Gene expression and phenotypic variation of a sweat bee sheds light on social caste evolution. Animal Behavior Society, Toronto, Ontario, Canada (Poster Presentation)

Awde, D.N., and Richards, M.H. 2017. How did egg-laying and work behaviours decouple from solitary ancestors to eusocial castes? Canadian Society for Ecology and Evolution, Victoria, British Columbia, Canada (Oral presentation)

Awde, D.N., and Richards, M.H. 2017. Investigating queen influence on worker behaviour: comparisons of queenless and queenright workers. Ontario Entomological Society, Guelph, Ontario, Canada (Oral presentation)

Awde, D.N., Skandalis A. and Richards, M.H. 2017. *Foraging* expression in castes of a primitively eusocial sweat bee. Southern Ontario Bee Researchers Symposium, Toronto, Ontario, Canada (Oral presentation)

Awde, D.N., Skandalis, A. and Richards, M.H. 2016. Phenotype and gene expression variation in castes of a primitively eusocial sweat bee. Ontario Entomological Society, Sault Ste. Marie, Ontario, Canada (Oral presentation)

Awde, D.N. 2016. Ovarian development and *vitellogenin* gene expression in a eusocial sweat bee, *Lasioglossum laevissimum*. Southern Ontario Bee Researchers Symposium, Toronto, Ontario, Canada (Oral presentation)

Awde, D.N., and Richards, M.H. 2016. Queen-sized workers or worker-sized queens? Ontario Ecology, Ethology and Evolution Colloquium, Toronto, Ontario, Canada (Oral presentation)

Awde, D.N., Skandalis, A. and Richards, M.H. 2015. *Vitellogenin* alternative splicing in a primitively eusocial sweat bee. Biology and Genomics of Social Insects, Cold Spring Harbour Laboratory, New York, USA (Poster presentation)

Awde, D.N., and Richards, M.H. 2015. Geographic variation in social organization in sweat bees. Southern Ontario Bee Researchers Symposium, Toronto, Ontario, Canada (Oral presentation)

Awde, D.N., Skandalis, A. and Richards, M.H. 2015. *Vitellogenin* alternative splicing in a eusocial sweat bee. Ontario Ecology, Ethology and Evolution Colloquium, Toronto, Ontario, Canada (Oral presentation)

Awde, D.N., Skandalis, A. and Richards, M.H.* 2014. *Foraging* and *Vitellogenin* gene expression patterns in eusocial sweat bees using RT-qPCR. International Union for the Study of Social Insects, Cairns, Australia (Oral presentation; MH Richards presenter)

Awde, D.N., Skandalis, A. and Richards, M.H. 2014. *Foraging* and *Vitellogenin* gene expression patterns in eusocial sweat bees using RT-qPCR. Canadian Society for Ecology and Evolution, Montreal, Québec, Canada (Oral presentation)

Awde, D.N., Skandalis, A. and Richards, M.H. 2014. *Foraging* and *Vitellogenin* gene expression patterns in eusocial sweat bees using RT-qPCR. Ontario Ecology, Ethology and Evolution Colloquium, Guelph, Ontario, Canada (Oral presentation)

Awde, D.N., and Richards, M.H. 2014. Colony structure and provisioning phenology of a weakly eusocial sweat bee in St. Catharines, Ontario. Ontario Entomological Society Annual Meeting, Toronto, Ontario, Canada (Oral presentation)

Awde, D.N., Skandalis, A. and Richards, M.H. 2014. *Foraging* and *Vitellogenin* gene expression patterns in eusocial sweat bees using RT-qPCR. Southern Ontario Bee Researchers Symposium, Toronto, Ontario, Canada (Oral presentation)

Awde, D.N. 2013. From solitary to eusocial: The ovarian ground plan hypothesis in the primitively eusocial sweat bee, *Lasioglossum laevisissimum*. Ontario Ecology, Ethology and Evolution Colloquium, London, Ontario, Canada (Oral presentation)

Awde, D.N. 2012. From solitary to eusocial: Testing the ovarian ground plan hypothesis in the primitively eusocial sweat bee *Lasioglossum laevisissimum*. Southern Ontario Bee Researchers Symposium, Toronto, Ontario, Canada (Oral presentation)

Awde, D.N. 2012. A pheromonal test of reproductive homology in the fly vs. bee. Western Biology Department Presentation Day, London, Ontario, Canada (Oral presentation)

Service and Outreach

Department and Society service

2015 Ecology Project Leader - Scientifically Yours (Brock University)
STEM program for high school students

2013 Better with Bees Exhibit (Balls Falls Conservation Area, Vineland, Ontario)
Taught bee identification to the community

Professional Memberships

Entomological Society of Ontario	2012-2018
Canadian Society for Ecology and Evolution	2012-Present
Animal Behavior Society	2017-2019
Entomological Society of America	2019-Present

Journal Referee

Insectes Sociaux (4)