



**Saskatchewan Beekeepers
Development Commission**

WELCOMES

All Participants

to the

2024 SBDC Annual Convention!

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2024 SBDC Convention Program

All Presentation in Michelangelo Ballroom A

Thursday November 14, 2024	
Time	Presentation
8:00	Registration - Coffee Sponsored by: Ridgedale Coop
8:55	Welcome – Nathan Wendell – SBDC President
9:00	Presentation by Western College of Veterinary Medicine, Saskatoon, SK Honey Bee Health Research Lab Moderated by Dr. Sarah Wood & Dr. Elemir Simko
9:00	Surveillance of AFB in Saskatchewan and worldwide. Rosephine Enadeghe and Oleksii Obshta
9:15	Analyzing bottom board debris in honey bee hives: a sensitive diagnostic tool for investigating infectious causes of overwinter mortality M. Fahim Raza and Belarmino Lopes Neto
9:30	Investigation of EFB during blueberry pollination and novel treatments Thanuri Edirithilak and Maria Janser
9:45	Efficacy of oxytetracycline, lincomycin, and tylosin as treatments for a clinical outbreak of EFB in Saskatchewan. Midhun Jose and Harmony Woodrow
10:00	Canola, pesticides, and pollinators. Emilio Tellarini Prieto and Marcelo Camilli
10:15	Enhancing pesticide safety in pollinators: gonadotoxicity in honey bee drones. Marina Bezerra da Silva
10:30	Coffee Break – Sponsored by: Manitoba Cooperative Honey Producers Ltd
11:00	Future directions for varroa research in Saskatchewan. Sarah Wood and Ryan Merkl
11:15	To treat or not to treat: AFB diagnosis and control Elemir Simko
11:30	Insect issues in 2023 and forecasts for 2024 in Saskatchewan - James Tansey – Provincial Specialist -Insect/Pest, Government of Saskatchewan.
12:00	Lunch
Bee Health and Sustainability Session -1 Sponsored by ADF Program & Strategic Funds Projects	
1:00	Before Antibiotics Jerry Hayes, Editor of Bee Culture Magazine, Medina, OH, USA
1:45	Tropilaelaps: An emerging new threat to beekeeping. Maggie Gill, Senior Science Officer, Science Monitoring and Evaluation, Department for Environment, Food and Rural Affairs, UK
2:30	Bee Safe: What Every Beekeeper Should Know About Pesticide Regulations. Amanda Horner, Compliance and Enforcement Advisor with Health Canada’s Pesticide Compliance Program, Pesticide Compliance Program, Health Canada / Government of Canada, Saskatoon, SK
3:15	Coffee Break - Sponsored by: Ridgedale Coop
3:45	Updates on progress towards developing effective miticides for varroa control. Medhat Nasr – Saskatchewan Beekeepers Development Commission (SBDC) Tech- Adaptation Program Lead, Prince Albert, SK
4:30	The Saskatchewan Flower Phenology. Graham Parsons. SK Agriculture, Prince Albert, SK
5:00	Day Session Ends
7:00	(Wine and cheese)

**2024 SBDC Convention Program
All Presentation in Michelangelo Ballroom A**

Friday November 15, 2024	
Time	Presentation
	Bee Health and Sustainability Session-2 Sponsored by ADF Program & Strategic Funds Projects
9:00	Bee and honey imports statistics. Stephen Page, Sector Specialist – Honey and Beekeeping, Crops and Horticulture Division, Agriculture and Agri Food Canada, Ottawa, Canada.
9:30	“Inert” pesticide ingredients may not be inert for bees. Reed Johnson, Professor, Department of Entomology, Ohio State University, Wooster, OH, USA
10:00	Coffee Break - Sponsored by: Ridgedale Coop
10:30	Asian hornet (<i>Vespa velutina</i>) track and trace in the UK. Maggie Gill, Senior Science Officer, Science Monitoring and Evaluation, Department for Environment, Food and Rural Affairs, UK.
11:00	A Confirmation Bias, Without Facts You Cannot Have Cooperation. Jerry Hayes, Editor of Bee Culture Magazine, Medina, OH, USA
11:30	Managing Multi resistant Mites Geoff Wilson, Provincial Apiculturist, Saskatchewan Agriculture, Prince Albert, SK.
12:15	Lunch
1:15	Improving chemical varroa mite control. Reed Johnson, Professor, Department of Entomology, Ohio State University, Wooster, OH, USA
1:45	Registration to the AGM Coffee Break – Sponsored by: Ridgedale Coop
2:00	Annual General Meeting <ul style="list-style-type: none"> • Financial Presentation • Provincial Apiarist Report- Geoff Wilson – Provincial Specialist in Apiculture, Government of Saskatchewan, Prince Albert, SK • Director’s Report • Election • Election Results
5:00	Day Session Ends
6:30	Cash Bar and Banquet

2024 SBDC Convention Program
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Saturday November 16, 2024 9:00 a.m.	
Time	Topics and speakers
9:00	Biosecurity Course: Geoff Wilson, Graham Parson and Medhat Nasr
10:30	Coffee Break – Sponsored by: Ridgedale Coop
10:45	Keeping Healthy Bees – What Are your challenges to keep healthy bees? – Open Discussion. Geoff, Sarah, Graham, Maggie, Jerry, and Medhat
12:00	Day Session End - Have a Wonderful Winter Break

Speakers Bio

Keynote Speakers:

Mr. Jerry Hayes - Editor Bee Culture, USA



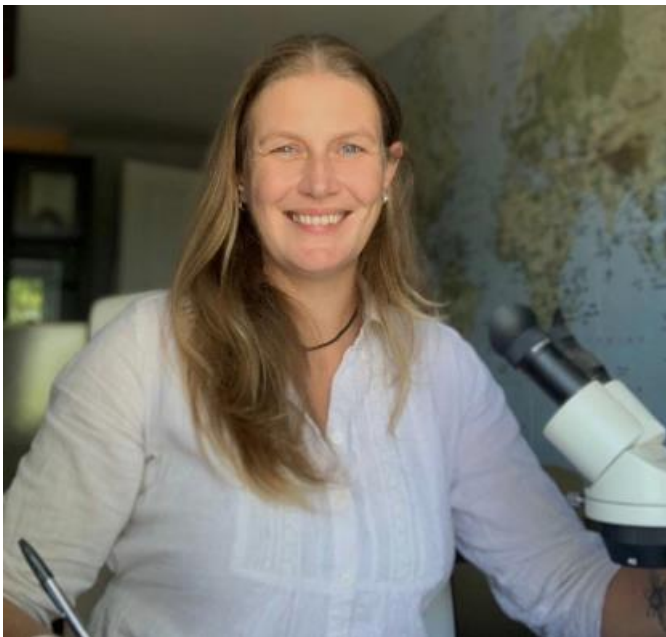
Jerry Hayes started out in life as a High School teacher. He hated it. He went into another business where he worked with a beekeeper. Back many years ago Jerry knew about Honey Bees but nobody actually knew a 'Beekeeper', did they? Jerry asked him questions, picked his brain, became more interested and fascinated and started reading everything he could get his hands on about Honey Bees. He turned into the consummate backyard beekeeper. He did all the fun and crazy things backyard beekeepers do and built and experimented with. He wondered if he could

get into the Beekeeping world and support a young family. So, with the support of his family he went back to school under the tutelage of Dr. Jim Tew, at Ohio State University. "Third Best thing he ever did", Jerry said.

Years later he looks back on his opportunities as a Research Technician at the USDA/ARS Baton Rouge Bee Lab, Dadant and Sons Regional Mgr., Dadant and Sons New Product Dev., and AR Mgr., Chief of the Apiary Section for the Florida Dept. of Agriculture and Consumer Services, Monsanto Honey Bee Health Lead, VP. of Vita Bee health North America and now Editor of Bee Culture magazine with awe and amazement.

Add to the above the Classroom Q&A Column of the American Bee Journal for almost 40 years, the 'Classroom' Book, Author or Co-Author on 23 research papers and a variety of Honey Bee related articles in a variety of publications. Plus, Past President of Apiary Inspectors of America, Heartland Apiculture Assoc., Colony Collapse Working Group, CAPS Science Advisor, PAm Science Advisor, AHPA Science Advisor and many Professional Presentations internationally and media opportunities. And Now Editor of Bee culture magazine. It has been a Great Journey.

Dr. Maggie Gill: Senior Science Officer, UK



Maggie Gill has been involved in beekeeping for 20 years, producing queens and colonies on a small commercial scale and conducting research. As a senior scientist at Defra for the UK government, her focus is on how environmental land management affects pollinators as a part of the Future Farming and Countryside Programme. Additionally, Maggie has spent 10 years working for the National Bee Unit as part of the UK governments bee health monitoring programme.

Driven by her passion for bees and environmental conservation, Maggie has engaged in honey bee research, examining pollinator nutrition, as well as pests and diseases. Her collaborative efforts have spanned universities, government

departments, and research institutes across Europe, North America, and Asia.

Dr. Reed Johnson, Professor and Entomology Graduate Studies Chair, The Ohio State University
Wooster, Ohio, USA



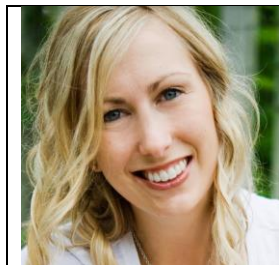
Expertise: Apiculture, Pollinator toxicology, Genomics

Reed's program focuses on understanding the relationship between pollinators and their environment, with an emphasis on the effects of pesticides and understanding the physiological basis of pesticide toxicity.

Research Area:

Insect pollinators are vital for the production of many fruits, nuts and vegetables, including apples, blueberries, almonds, tomatoes and pumpkins. These crops are also vulnerable to pests and diseases, which are often controlled through the use of pesticides. However, pesticides may be toxic to insect pollinators, setting up a conflict between the need for pollination and the need for pest and disease control. In our lab we are seeking to understand how to protect pollinators from the pesticides and other toxins they encounter. The managed European honey

bee, *Apis mellifera*, serves as a model pollinator for toxicological testing. While the honey bee is the most economically important pollinator in the U.S. and serves as an excellent model species, we are also interested in understanding pesticide toxicity in other pollinating insects as well.



Ms. Amanda Horner, is a Compliance and Enforcement Advisor with Health Canada's Pesticide Compliance Program. The program is designed to protect the health and safety of Canadians and the environment. Amanda and her husband have two very active kids in sports. In her spare time, she activity participates in forums to improve stroke care in Saskatchewan, particularly advocating for rehabilitation supports.



Dr. James Tansey, Provincial Specialist, Insect/Pest Management, Production Technology Crops and Irrigation Branch, Saskatchewan Ministry of Agriculture, Regina, SK. He earned both an M.Sc. and Ph.D. from the University of Alberta. His research has included aspects of leafy spurge biological control, mechanisms of cabbage seedpod weevil and cabbage root maggot resistance, and insecticide resistance in, and cultural and chemical control of the Asian citrus psyllid. His doctoral dissertation was nominated for the Governor General Gold Medal Award. He was also a Regulatory Affairs Manager with Dow AgroSciences Canada Inc. in Calgary, Alberta.



Dr. Medhat Nasr, Saskatchewan Bee Tech Adoption Program Lead, Alberta Provincial Apiculturist (Retired). Medhat has spent decades developing alternatives for mite control (formic acid, Oxalic Acid, HopGuard² and Apivar[®]), managing miticide resistance, evaluating integrated pest management (IPM) programs, and breeding quality bees. Medhat was the president of CAPA from 2014-2018. He is a member of the Varroa Resistance and Treatment Team (VRTT) of the Honey Bee Health Coalition-USA. He received numerous awards for his contributions to apiculture in Canada and USA. Medhat earned his B. Sc. and M. Sc. (Entomology) from Cairo University, Egypt. He earned a Ph. D. in Entomology from University of California, Davis, US.



Mr. Stephen Page. Steve is a sector Specialist Beekeeping, Pollination, and Ornamental Horticulture · Agriculture and Agri-Food Canada. Steve works with industry, associations and other governments departments and agencies to ensure industry concerns and challenges are understood by governments. Undertake economic analyses of industries and firms to estimate impacts of changing conditions, policies and programs.



Mr. Graham Parsons. Graham has been with Saskatchewan Agriculture since January 2016. He originally started as an Apiculture Intern and now is Saskatchewan’s Pollinator Biosecurity Specialist. He deals with support of the honey bee industry through regulation, education and extension. As well he supports the alfalfa leafcutter beekeepers of the province. Other aspects of his work include pollination support for crop producers and habitat and management recommendations in support of managed and wild pollinators. Graham was the Lead Researcher for the SBDC from 2011 to 2015, as well as completing his Masters of Science in Entomology studying honey bee disease and overwintering at the University of Manitoba. Graham lives with his wife and two kids near Prince Albert Saskatchewan where he keeps a few honey bee colonies of his own.



Mr. Geoff Wilson. Geoff is the Provincial Specialist, Apiculture in Saskatchewan and is based in Prince Albert. His primary roll is to help enhance the beekeeping industry in the province. A combination of working closely with beekeepers, and the rolls of regulation, extension and some research gives Geoff a unique insight to beekeeping issues in the province. Geoff earned his B. Sc. (Agriculture) and M. Sc. (Environmental Biology) from University of Guelph, Ontario

WCVM Honey Bee Health Research Lab



Dr. Sarah Wood, MSc, DVM, PhD, DACVP, Research Chair in Pollinator Health, Associate Professor, Department of Veterinary Pathology, Western College of Veterinary Medicine, University of Saskatchewan. Sarah is a co-foundress of the WCVM Honey Bee Health Research Lab. Sarah has worked as a small animal veterinarian and a diagnostic veterinary pathologist, and she is now thrilled to serve Saskatchewan beekeepers as the WCVM Research Chair in Pollinator Health. Her research interests include infectious disease and toxicology of honey bees and the role of pollinators in






sustainable agriculture.



Dr. Elemir Simko, DVM, DVSc, DACVP, Professor, Department of Veterinary Pathology, Western College of Veterinary Medicine, University of Saskatchewan

Elemir is a co-founder of the WCVM Honey Bee Health Research Lab. Over the past few years, Elemir’s research interests have included comparative pathology, innate immunity, pathogenesis of infectious diseases and evidence-based diagnostic pathology. He has expanded his research into honey bee health and sustainability of agriculture.

	<p>Thanuri Edirithilake, BVSc, M.Phil, MSc student, Department of Veterinary Pathology, Western College of Veterinary Medicine, University of Saskatchewan.</p> <p>Thanuri obtained her BVSc and M.Phil from University of Peradeniya (Sri Lanka) in 2023. Her MSc is focused on European foulbrood disease, specifically antimicrobial sensitivity, and genetic diversity of <i>Melissococcus plutonius</i>.</p>
	<p>Emilio Enrique Tellarini Prieto, Agri.Eng., MSc Student, Department of Veterinary Pathology, Western College of Veterinary Medicine, University of Saskatchewan.</p> <p>Emilio obtained his Agricultural Engineering degree from National University of Comahue (Argentina) in 2022. Also, he worked in the research area of a company dedicated to beekeeping in 2019-2021. During his MSc he is investigating the control of <i>Varroa</i> with oxalic acid as well as pollen diet and wild pollinator abundance in intensive agricultural landscapes of Saskatchewan.</p>
	<p>Marina Bezerra da Silva, DVM, Ph.D. Student, Department of Veterinary Pathology, Western College of Veterinary Medicine, University of Saskatchewan.</p> <p>Marina obtained her DVM from the University Federal of Uberlandia (Brazil) in 2020. She did a residency in veterinary anatomic pathology at the University of Paulista (UNESP) – Brazil in 2020 - 2021. Her Ph.D. is focused on reproductive toxicology of honey bee drones.</p>
	<p>Oleksii Obshta, DVM, MSc Student, Department of Veterinary Pathology, Western College of Veterinary Medicine, University of Saskatchewan.</p> <p>Oleksii obtained his DVM from the Bila Tserkva National Agrarian University (Ukraine) in 2020. His MSc is focused on American foulbrood, specifically antimicrobial resistance. His research includes whole genome analysis of <i>Paenibacillus larvae</i> and molecular epidemiology.</p>
	<p>Dr. Marcelo Polizel Camilli, MSc, PhD, Postdoctoral Fellow, Department of Veterinary Pathology, Western College of Veterinary Medicine, University of Saskatchewan.</p> <p>Marcelo obtained his MSc and PhD in Animal Sciences at São Paulo State University where he studied Africanized honey bee nutrition. Currently, his research focuses on pesticides, honey bee health and surveillance of wild pollinator diversity.</p>
	<p>Dr. Midhun Sebastian Jose, MSc, PhD, Postdoctoral Fellow, Department of Veterinary Pathology, Western College of Veterinary Medicine, University of Saskatchewan.</p> <p>Midhun obtained his MSc from the Central University of Kerala, India, and Ph.D. from Mahatma Gandhi University, India. Midhun's research expertise is in Microbiology, Probiotics, and bacterial diseases. His current research is focused on the persistent pathogenesis, and prevention of European Foulbrood caused by <i>Melissococcus plutonius</i>.</p>
	<p>Dr. Muhammad Fahim Raza, PhD, Postdoctoral fellow, Department of Veterinary Pathology, Western College of Veterinary Medicine, University of Saskatchewan.</p> <p>Fahim received his PhD degree (2020) in entomology from Huazhong Agricultural University, Wuhan, China. His research expertise includes the role of gut symbionts in insect reproduction mechanisms, sterile insect technique, and bacteriology. He joined the honey bee research lab in December 2021. His current research focuses on diagnosis of overwintering colony mortality based on bottom board debris analysis.</p>

	<p>Dr. Belarmino Eugenio Lopes Neto, DVM, PhD, postdoctoral fellow, Department of Veterinary Pathology, Western College of Veterinary Medicine, University of Saskatchewan.</p> <p>His current research focuses on American foulbrood and Nosema.</p>
	<p>Dr. Rosephine Enadeghe, PhD, postdoctoral fellow, Department of Veterinary Pathology, Western College of Veterinary Medicine, University of Saskatchewan.</p> <p>Rosephine holds her PhD in Biochemistry with a huge passion for scientific research. She is engaged in multidisciplinary research that focuses on innovative studies on metabolic and infectious diseases outbreaks particularly in areas related to bee health. Rosephine's research focuses on the detection and quantification of <i>Paenibacillus larvae</i> spore, the causative agent of American foulbrood disease (AFB), and evaluating the sensitivity of <i>larvae</i> to approved antibiotics. Her goal is to develop novel methodologies to enhance beekeeping practices. Rosephine is also committed to advancing scientific understanding by applying innovative solutions to problems. Outside the laboratory, Rosephine is a parent of two, balancing a fulfilling family life with a career in research.</p>
	<p>Maria Janser, Maria is a fourth-year undergraduate biomedical science student at the University of Saskatchewan who worked as a summer student with the honey bee health lab in summer 2024. She is currently completing an honours project with the lab, focusing on the effect of blueberry pollination on the health of honeybee colonies in British Columbia.</p>
	<p>Harmony Woodrow, BSc., Harmony worked as a summer student in the WCVL honey bee health lab in 2024 where she investigated a clinical outbreak of EFB in Saskatchewan. Harmony also has several summers of experience working for a commercial beekeeper.</p>
	<p>Ryan Merkl, Ryan is a technician with the honey bee health lab at the University of Saskatchewan. His main responsibilities are colony maintenance and assisting with research projects.</p>

Platinum Sponsors:



From Hives to Honey Beekeeping (Formally Tony Lalonde Sales PRT) has been providing the beekeeping community with equipment that is essential for a beekeeper's success for nearly 20 years. We are dealers for Cowen Equipment, Hummerbee forklifts, Amish woodenware and Mahurangi frames, and we are a broker for Canadian honey. Whether a beekeeper has one hive or 5,000

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Gold Sponsors:



Bartel Bee Co Limited...a new name but not a new company!

You'll know us from Bartel Honey Farms Inc. and possibly the short stint as BHF Sales Ltd. which was supposed to be a side gig till we added the bee sales to it and now it just makes sense to go back to our heritage with the Bartel name. Bartel Honey Farms Inc. is still running strong under Tim's guidance. We simply split the two sides of the farm/bee sales into two businesses and neither of us will be offended if you mix them up.

Bartel Bee Co. Limited still imports bees and queens from Arataki in New Zealand as well as from Tenuta Ritiro in Italy, Strong Box Bees from Chile and our newest addition, Cooperativa Sur Andina also in Chile. We do experimental beekeeping, and we are also the North American representative for EZYLoader.

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Manitoba Cooperative Honey Producers Ltd. The Bee Maid Bee Supply stores in Winnipeg and Tisdale have been in operation for over 50 years.

Our goal is to provide quality beekeeping supplies to all beekeepers, commercial and hobbyist. We handle everything from hive tools, medicine, mite control, frames and supers, live package bees, queens plus much more.

Bee Maid Bee Supplies take pride in ensuring our customer's satisfaction and we are committed to providing you with the highest level of service simply because our customers deserve the very best.

Gold Sponsors Continue:



Ridgedale

Ridgedale Co-op was founded in 1940 and is a different kind of business – we're truly local. Your local Co-op was built by you and built for you. Each Co-op in Western Canada is independent, so it offers the products and services needed by the communities it serves."



offer the greatest quality on the market and propose to North America the evolved science of beekeeping. Day after day, our team at Propolis-etc... dedicates in manufacturing woodenware and distributes more than 1500 items. We are now manufacturing and shipping from Winnipeg. Grateful and proud to be part of the 2024 SBDC Convention, we are looking forward meeting you at our booth. Come and see us, we'll be thrilled to serve you.



Vita Bee Health (Canada) is a mite control and honeybee health specialist. It is the world's largest dedicated supplier of honey bee health products to the honey and pollination industries.

With a rigorous and ethical approach to research and development into honeybee health, Vita has no commercial interests in crop pesticides or crop breeding that may be harmful to honeybees.

With headquarters in the UK, offices in Italy, Canada, USA and Russia, partners across the globe, Vita researches, develops, and manufactures a range of honeybee health products. These products are marketed internationally through a network of 60 distributors in 50 countries

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Joan's Beeswax Candles is located on my farm 2 km north of downtown Hague, SK. I have worked with beeswax since 2010. I apprenticed with a former beeswax candle maker for one year before buying the business July, 2011. I am a juried member of the Saskatchewan Craft Council. I am proud to say I purchase only Saskatchewan beeswax, directly from the beekeeper. - Gwen Fehr. (Gwen supplies the gift baskets for the SBDC convention presenters and fills the air with that heavenly beeswax aroma in the display area!)

Joe's Wax Works



is a full service wax rendering company. We render all types from cappings to frames and slumgum. We will also buy wax at competitive prices.

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SolutionBee delivers the highest quality beehive monitoring systems in the industry. Our reliable user-friendly solutions enables both hobbyist and commercial beekeepers alike to optimize beekeeping operations. Our dedicated support team stands ready to assist in the set-up, maintenance, and use of the system to ensure you realize the maximum value from your investment.

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