



CLERK OF THE BOARD DIVISION  
OF THE BOARD OF SUPERVISORS' OFFICE

# COUNTY OF HUMBOLDT

825 FIFTH STREET  
EUREKA, CALIF. 95501-1153

PHONE (707) 476-2384; 445-7299 (FAX)

## APPLICATION TO SERVE ON THE HUMBOLDT COUNTY PLANNING COMMISSION

APPLICANT NAME: Melanie J McCavour

MAILING ADDRESS: Humboldt County, Ca 95503

TELEPHONE: Home: 707-4 Work: 707-

E-MAIL ADDRESS: mccavour@gmail.com

OCCUPATION: Consultant on Environmental Management, CEQA, NEPA , CEEA assessment and planning, Research Associate, and Lecturer in the Departments of Forestry and Wildland Resources, and Environmental Science and Management, College of Natural Resources, and Environmental Science and Management, College of Natural

PERSONAL REFERENCES: Resources, HSU

- (1) Carlos Rodriguez Franco, Senior Forester, USDA Forest Service Research and Development ✓
- (2) David Loya Director, Community Development City of Arcata (1). (2).  
(3).
- (3) Chris Dart, President of Danco
- (4) Elizabeth Burks, LACO Associates 4.

PRIOR ADVISORY BOARD OR BOARD OF DIRECTORS EXPERIENCE? YES

DATE: Dec. 14th, 2018

SIGNATURE: Melanie J McCavour

I declare under penalty of perjury under the laws of the State of California that the above is true and correct

SUBMIT THIS APPLICATION TO:  
HUMBOLDT COUNTY PLANNING COMMISSION, Clerk of the Board, 825 Fifth Street, Suite 111,  
Eureka, CA 95501-1153.

DATE TO SUPERVISOR \_\_\_\_\_ DATE APPROVED \_\_\_\_\_ NOT APPROVED \_\_\_\_\_

3/25/2016

PLEASE WRITE A BRIEF STATEMENT DESCRIBING WHY YOU'RE INTERESTED IN SERVING ON THE PLANNING COMMISSION.

Wanting to help bridge a gap between science and policy was one of the main reasons I decided to focus a large part of my career and community energy on environmental impact assessment. I chose to pursue a Masters degree in environmental impact assessment after having worked in chemistry, forestry, and biology, and seeing first-hand the disconnect, disengagement even, of scientists from policy, and of the public from both science and policy. I was inspired by what I learned in the M.Env., and was fortunate in being able to work on some incredibly engaging projects, including the Turcot interchange project in Quebec (this work was published in a small book), and on two coastal tourism development projects in Jalisco, and a mining project in Belize.

After this, I went on to work as an intern at the USDA Forest Service, Research and Development, on the NEPA EA for ArborGen's proposed project utilizing genetically engineered eucalypts for bioenergy. While at the USDA Forest Service I participated in delivering both analytical work and policy recommendations to senior staff (and was delighted to be the official cake cutter at Smokey the Bear's 65th birthday and non-retirement party!). I appreciate the experiences of having gone with a senior research associate to Congress to testify (bioenergy-switchgrass), and to the Inter-Agency Committee on Global Change, and learned a great deal about how to write and present to diverse and disparate groups, finding common interest and engagement on the issues.

I currently work as an EIA reviewer and consultant on cannabis compliance, CEQA/NEPA/CEAA assessment, as a Research Associate (forest harvest residue and yield; restoration of the Baker Cypress), and as a University Lecturer, where I teach senior undergraduates the basics of State, National, North American (including Tribal joint assessment), and International EIA, and how to write an Environmental Impact Report (semester long lab project). I particularly enjoy writing and reviewing the purpose and need section, ensuring consistency between the purpose and need and proposed alternatives, and crafting an in depth analysis of the no action alternative. These two sections are often overlooked, which is unfortunate, as strong writing and research here can really help showcase positive impacts, as well as promote the economic benefits of the project or action.

I am a proponent of progress, CEQA reform, and densification of towns in order to allow for a greater allocation of land towards resource maintenance and biodiversity corridors, decreased GHG emissions through lessened vehicle miles travelled, increased safety by limiting encroachment into the wildland fire interface, and more efficient provision of services to residents.

As a City of Arcata Planning Commissioner, I conduct CEQA and local ordinance analysis on a bimonthly basis, transparently, to a public audience, and make policy and planning recommendations to council based on these analyses, including those generated in response to public input from local stakeholders such as tribes, NGOs, and resident groups.

As a consultant, I make recommendations regarding impact assessment, natural resource planning, and zoning, and provide links to public participation forums.

Living in a redwood forest just outside of Eureka in our beautiful county, and seeing the need for economic development, and understanding of how to navigate and succeed under our environmental regulations, local ordinances and plans, motivates me to serve as a planning commissioner. I would be honoured to have the opportunity to share knowledge, conserve ecosystem services, and further sustainable development.

Sincerely,  
Melanie McCavour

## Biography and Curriculum Vitae

Melanie McCavour is a local Environmental Impact Assessment professional and biologist with

expertise in: sustainable agriculture (Canada, Mexico, California), genetically engineered trees and crops; pollination ecology and pollinator protection; forest and range soils; biodiversity and bioenergy; impact assessment of development projects (Mexico, Belize, N.B.) and impact assessment of transport projects (the wildlife corridor of the eastern townships and the Turcot exchange of Montreal, Quebec, the latter with a co-authored book chapter). Melanie was born in a small fishing village on the Bay of Fundy in New Brunswick, Canada (where coincidentally, many of the early Humboldt loggers were from), and as an adult moved to Montreal, Quebec where she worked and studied biology (B.Sc Biology), environmental impact assessment (M.Env., Dept. of Geography, Planning, and Environment), and Forest Soils, Biodiversity and Bioenergy (Ph.D., Universite du Quebec a Montreal and Natural Resources Canada). Having worked on impact methods and assessments for transportation projects and wildlife corridors (Quebec), and coastal tourism developments and agriculture (Mexico), she in 2009 completed an internship with the USDA in Washington D.C. on the impact assessment of genetically engineered eucalyptus (NEPA EA), bioenergy (switchgrass, trees) and clean nursery stock (APHIS & Invasive Species Council), and served as international chair at the North American Pollinator Protection Campaign (NAPPC) from 2009-2014, with a focus on pollinator protection under the North American Free Trade Agreement Commission on Environmental Cooperation (NAFTA CEC).

Having partnered with a Northern Californian in 1997 was a decision that eventually brought her to beautiful Humboldt County in 2014, where she currently resides in a redwood forest near Eureka, with said partner and their two boys, 12 and 15. Melanie is a member of the Association of Environmental Professionals of California and is a consultant on Environmental Impact Assessment (EIA) under the California Environmental Quality Act (CEQA), and the National Environmental Policy Act (NEPA). Formerly Part Time Faculty in the department of Sustainability and Diversity of Concordia University in Montreal, Quebec, Melanie has been a Lecturer at Humboldt State University since 2015, where she teaches Environmental Impact Assessment (EIA), and Biodiversity on Earth, holds grants with the ARI and BLM (to restore the Baker Cypress), Green Diamond Resource Company, and with the Schatz Tree Farm Foundation (to determine the spatial and loading effects of forest harvest residue on growth). She, and her students are involved in many local projects, from the update of the HSU Master Plan EIR (MEIR), Humboldt County General Plan, and the Cannabis PEIR under the CDFA, to biomass, dam, road, wind, solar and [tiny] housing projects, and she has built a wide network of planners through engaging with former students, clients, and colleagues in environmental planning positions at local corporations, and governmental agencies throughout the State of California. As a beekeeper, seed collector, cyclist (commuter cyclist, HBBCA planner '14-'15, and TUC event) and local health and wellness proponent (part time Pilates instructor at Healthsport, and volunteer at Zane and Washington schools), Melanie is especially interested in helping our community pursue policies and projects that simultaneously conserve natural resources and promote physical and mental health.

Melanie is currently serving as a Planning Commissioner for the City of Arcata, where she values applying her experience with, and passion for transparency, public participation, rational zoning and community development to local planning decisions.

**Curriculum Vitae**  
**MELANIE J. McCAVOUR**

Home Address: Harris St., Humboldt County, CA 95503  
(707) cell); mccavour@gmail.com; mj1482@humboldt.edu  
Citizenship: United States, Canada  
U.S. Work Authorization: yes.  
Languages: English, French, basic Spanish  
Residency abroad: Bahía de Chamela, Chamela-Cuixmala Biosphere Reserve, State of Jalisco, México (6 months each of the years 2002-2003, 2003-2004, 2006-2007)

**Academic Background**

Ph.D., Biology, Service Canadien du Foret, Ressources Naturelles Canada, Ville du Quebec, Quebec & L'Université du Québec à Montréal, Département des Sciences Biologiques, Montréal, Québec. Bioenergy and Biodiversity. Dissertation: *"The Role of Spatially Aggregated Post-Harvest Woody Residue in Soil Fertility and the Establishment, Growth, and Flowering of Plants"*

*Certificate:* Integrative Short Course in Spatial Analysis: GIS and Spatial Statistics in pollination biology. Dr. Jeremy Kerr. University of Ottawa, July 16-20, 2012.

MEnv. Environmental Impact Assessment, Department of Geography, Planning and Environment, Concordia University, Montreal, Quebec. Internship with the United States Department of Agriculture: *Environmental assessment in the United States of genetically engineered cold tolerant Eucalyptus intended for the biofuel market: science and policy.*

Coursework included: EIA: Concepts, Principles and Practice; Data Collection and Analysis for EIA; Geographical Information Systems for EIA; Environmental Standards; Environmental Auditing (ISO 9001,14001); Global Change and EIA; Environmental Law and Policy, Natural Resource Management and Planning.

B.Sc., Specialization Biology, Department of Biology, Concordia University, Montreal, Quebec.

International Baccalaureate (IB) Program, Saint John High School, Saint John, New Brunswick

**Employment History**

2017- City of Arcata Planning Commissioner

2016- Consultant, Natural Resource Planning and Environmental Impact Assessment: NEPA and CEQA compliance and permitting for transportation, housing, mining, forestry and Cannabis project assessments.

2016- 2020 Field and laboratory management: supervision and training of graduate students and assistants in data collection and analyses for the Ecological Restoration and Management Plan for *Hesperocyparis bakeri* (in conjunction with the BLM)

2017-2019 Lecturer, Department of Environmental Science and Management and Research Associate, Department of Forestry and Wildland Resources, Humboldt State University, College of Natural Resources, 1 Harpst St., Arcata, CA 95521, 707-826-3452 Classes: Environmental Impact Assessment (ESM 425); Biodiversity (ESM 302)

2016-2017 Lecturer, Departments of Environmental Sciences, Management and Protection & Biology, Humboldt State University Environmental Impact Assessment (EMP 425); Plant Ecology (BOT 330); Plant Ecology Laboratory (BOT 330L).

2015-2016 Lecturer, Department of Environmental Sciences, Management and Protection, Humboldt State University. Classes: Environmental Impact Assessment (EMP 425)

2010-2014 Part-Time Faculty, Departments of the Loyola College for Sustainability and Diversity, and Geography, Planning and Environment, Concordia University, Montreal, Quebec. 1455 de Maissonneuve, Montreal, Quebec, Canada, Loyola Campus, AD 500 and SGW 1225

2009-2010 Internship, United States Department of Agriculture: Forest Service, Research and Development, Forest Management Sciences, Conservation Education, and Invasive Species Council (APHIS). Foci: global change, environmental assessment and bioenergy. Department of Agriculture, Rosslyn, Va and Washington, D.C.

2008: Mangrove regeneration research and restoration project (Hurricane Dean), Mahahual, México

2006-2008 Collaborated on the environmental impact assessments and analyses of the Chalillo Dam projects, (Macal River, Belize), and the proposed Bahía de Chamela Marina project (village and ejitos of the Chamela-Cuixmala Biosphere, Jalisco, México)

1999-2011 Biology and Chemistry Laboratory Technician, part time teaching lab instructor, and departmental Lab Manager and Budget Administrator, Marianopolis College, Montreal, Quebec

2002-2004 Research Assistant for the environmental impact and resource assessment of the re-vegetation of old seismic lines on permafrost terrain project; Gwich'in Band, Natural Resources Division, Northwest Territories (summer)

2000 Research Assistant for the study of post-fire regeneration on native traditional use land; Cree Band, Nemaska, Quebec (summer)

1999 Laboratory research technicienne at l'Université du Québec à Montréal:  
Dendrochronological analyses.

1998-1999 Research Assistant at the Engineering firm APS Aviation, Montreal, Quebec: Collection and analyses of time-to-failure data for airplane wing de-icing fluids and time to branch breakage associated with a distribution of freezing rain and fog droplet sizes.

1998 Data analyst, lab technician and field researcher at the Montréal Botanical Gardens: vegetation encroachment management along Hydro-Québec rights-of-way, Jardin Botanique, Montréal, Québec

1997 Field and Laboratory research associate and technician at the Mont St. Hilaire Research Station. (Study of seed dispersal in old growth maple-beech-hemlock forest)

1997 T.A. for the course "Statistical Methods in Geography"

1995-1997: Greenhouse technician and acquisition manager at Warshaw, Boulevard St. Laurent, Montréal, Québec

### **Publications**

2018. McCavour, M.J., Pare, D., Messier, C., Thiffault, N., and Thiffault, E. In prep. The optimal spacing of post-harvest woody residue for enhancing growth of plantation stock.

2018. Avitia, J., Madurapperuma, B., McCavour, M., Herath, W.N. Comparative Review of Environmental Impact Assessment in the United States and Sri Lanka.

2018. McCavour, M.J., Solano, P. In preparation. Trilateral impact assessment in North America. NAFTA CEC.

2018. (Invited submission). McCavour, M.J. In preparation—"Flowering plants for pollinators vs. biofuels: What to do with forest harvest residue?" Edited by Carol Gray, Fulbright Canada; Zed publishing.

2018. McCavour, M.J., Pare, D., Messier, C. Submitted. Optimal loading of harvest residue for small seed survivorship.

2018. McCavour, M.J., Pare, D., Messier, C. Submitted. Assessing the impact of harvest residue removal; growth of hybrid poplar (*Populus*) in relation to distance to slash piles.

2015 Greene, D.F. and McCavour, M.J. Dispersal, diffusion and migration. A chapter in the Encyclopedia of Geography (Wiley-Blackwell/AAG).

2014. (Refereed) McCavour, M.J., Pare, D., Messier, C., Thiffault, N., and Thiffault, E. "The Role of Aggregated Forest Harvest Residue in Soil Fertility, Plant Growth,

and Pollination Services". Soil Science of America Journal Special Issue: *The role of forest soils in sustaining ecosystem services*.

2012 (governmental report) McCavour, M.J., McNair, S., Tittler, R., Gervais, D., Solarik, K., Greene, D.F., Messier, C., Laurin, E., Vernier, L., Aubin, I., and Titus, B. 2011. The effect of



forest harvest residue removal on biodiversity with special reference to northwest Ontario. Ontario Ministry of Natural Resources, Toronto, Ontario. 109 pp.

2009. Ferguson, N.M., Moriarity, R.J., Gagnon F., and McCavour, M.J. 2009. The Health Effects of Road Traffic - A Brief Overview. In: Montréal at the Crossroads: Superhighways, the Turcot and the Environment. Editors: Gauthier, P., Jaeger, J., and Prince, J. Black Rose Books, Montreal, Quebec.

### Conference Presentations

McCavour, M.J., and Greene, D.F. 2017. Facultative Serotiny. Society of American Foresters conference, November 13<sup>th</sup>-18<sup>th</sup>, Albuquerque, N.M.

Greene, D.F., McCavour, M.J., and Kane, J. 2016. Facultative serotiny. Natural Areas Annual Conference, Invited Session on Post-fire Conifer Regeneration in California, Davis, California, October 18-20.

McCavour, M.J., Greene, D.F., and Kane, J. 2016. Ecological restoration plan for the Baker Cypress (*Hesperocyparis bakeri*) in the Upper Burney Creek Baker Cypress Research Natural Area of California. The SERNW Regional Conference on ecological restoration in Portland, Oregon, April 4-8<sup>th</sup>

McCavour, M.J., Pare, D. and Messier, C. 2014. IUFRO Congress: Forest Biomass and Bioenergy. Evaluation of environmental impacts of production and use of wood products and wood energy on soil and ecosystem services: "Trade-offs between utilizing fine woody debris and minimizing rotation time in hybrid poplar plantations" October 24<sup>th</sup>, 2014, Salt Lake City, Utah.

McCavour, M.J. 2014. Flowering plants for bees vs. biofuels: What to do with forest harvest residue? Policy, Science/Technical and Public Dimensions of Soil Change. Soil Change Matters International Workshop, Bendigo, Victoria, Australia. March 24-27<sup>th</sup>, 2014

McCavour, M.J. 2014. Flowering plants and pollinators: promoting biodiversity and food security in urban ecosystems. Urban Biodiversity Symposium: *Cities: Partnerships in Biodiversity*, Concordia University, Montreal, Quebec. Friday, March 7, 2014

McCavour, M.J. 2013. Flowering plants for bees vs. biofuels: What to do with forest harvest residue? Symposium on Sustainability and Human Rights, Fullbright Canada, Concordia University, Nov. 21-22, 2013

McCavour, M.J. 2013. Policy Presentation (s) (3x) as International Taskforce chair at the NAPPC 13<sup>th</sup> Annual meeting, American Farm Bureau, Washington, DC, U.S.A

"Protection of pollinators under environmental assessment and the NAFTA CEC ; the 20 year

anniversary of the NAFTA CEC". Oct. 22nd-25th, 2013

McCavour, M.J., Greene, D.F., and Fissore, G. 2013. Testing a method for differentiating

between the contribution of insects and wind to the fertilization of outcrossing plant species. Annual Meeting of the Association for Tropical Biology Conference (ATBC), San Jose, Costa Rica. June 23<sup>rd</sup>-27<sup>th</sup>, 2013

McCavour, M.J., Paré, D., and Messier, C. 2013. The role of slash piles in hybrid poplar plantations in the maintenance of pollinator abundance and biodiversity in the boreal forest of Quebec. 12th North American Forest Soils Conference (NAFSC), Whitefish, Montana, U.S.A. June 16<sup>th</sup>-20<sup>th</sup>, 2013

McCavour, M.J. 2013 (invited) Legal and regulatory protection of pollinators in North America. The inaugural meeting of the Canadian Pollination Initiative *Canadian Pollinator Conservation 2013: Next Steps* Koffler House, University of Toronto, Canada. April 10<sup>th</sup>, 2013

McCavour, M.J. 2013. Biodiversity and environmental laws in North America. Panel I Canada/U.S. Issues, Annual Siena-Concordia Globalization Conference *The Future We Want: Environmental Sustainability and Social Justice*, Siena College, Loudonville, NY. March 21-22<sup>nd</sup>, 2013

McCavour, M.J. 2012. Tri-Lateral protection of pollinators in North America: A summary of the on-going attempt to use the North American Free Trade Agreement to protect pollinator diversity and abundance. North American Pollinator Protection Campaign (NAPPC) 12th Annual Meeting, U.S. Environmental Protection Agency (US EPA), Arlington, Virginia. October 17<sup>th</sup>-19<sup>th</sup>, 2012

McCavour, M.J. 2012. Effects of the spatial distribution of slash on soil nutrients, plant growth and foliar nutrition, and flowering. Field presentation at St-Pascal de Kamouraska for the St-Lawrence River Biomass Tour "Experimental designs for studying the impact of harvesting forest biomass: where should we go?" Service canadien des forêts and the Centre de foresterie des Laurentides-Canadian Forest Service and Laurentian Forestry Centre. September 20<sup>th</sup>, 2012.

McCavour, M.J. 2012: Land management practices from Rio 92-Rio 2012: From reductionism to complex systems. 7th Annual Concordia-Siena Conference on Globalization *Sustainability: Rio + 20*. March 30-31, 2012.

McCavour, M.J. 2011. Invasive Species and the US- Canada International Border. Panel I: Canada/U.S. Issues, Sixth Annual Siena-Concordia Globalization

Conference *Transnational Economic and Environmental Justice*, Siena College,  
Loudonville, NY. March 25th, 2011

McCavour, M.J. 2011. The need for recognition and protection of pollinators within Mexico, the United States and Canada. Invited Statement at the 18th Regular Council Session of the North American Free Trade Agreement Commission on Environmental Cooperation (NAFTA CEC) and the Joint Public Advisory Committee (JPAC). June 18<sup>th</sup>, 2011

McCavour, M.J. 2011. The potential role of the North American Free Trade Agreement in pollinator protection. 10th International Pollination Symposium, Universidad de las Américas Puebla, Cholula, Mexico. June 27-29, 2011

McCavour, M.J. 2011. Tri-Lateral protection of pollinators in North America: A summary of the on-going attempt to use the North American Free Trade Agreement to protect pollinator diversity and abundance. North American Pollinator Protection Campaign (NAPPC) 11<sup>th</sup> Annual Meeting, Smithsonian Institution, United States National Museum of Natural History, Washington D.C. October 25<sup>th</sup>-27<sup>th</sup>, 2011

McCavour, M.J. 2010. Pollinator Protection under the North American Free Trade Agreement. North American Pollinator Protection Campaign (NAPPC) 10<sup>th</sup> Annual Meeting, USDA, Washington D.C. October 20-22<sup>nd</sup>, 2010

McCavour, M.J. 2000. The full stocking criterion as a function of seedling density from natural regeneration in clear-cuts and burns. Workshop on Disturbance Dynamics in Boreal Forests, Kuhmo, Finland. August 21<sup>st</sup>-25<sup>th</sup>, 2000

### **Teaching Experience**

*University Level:* Lecturer at Humboldt State University from 2015-2019 and at Concordia University from 2010-2014. Courses taught include Plant Ecology (BOT 330 and 330L), Environmental Impact Assessment (ESM 425), Biodiversity on Earth (ESM 302 and LOYC 320), Sustainable Forest Management (GEOG 474), Forest Management for EIA (GEOG 674), Plant Ecology (GEOG 374) and Plant Reproductive Ecology (GEOG 372); Environmental Impact Assessment (EMP 425); Plant Ecology (BOT 330), Plant Ecology Laboratory (BOT 330L), and soon, Biodiversity (ESM 302), to be offered in 2017-2018.

Supervision of several honours projects at the Loyola College department for sustainability and diversity, sustainable Concordia, and People's Potato; supervision field training, and soils lab analysis training of three interns from France (field and laboratory research); supervision of an HSU graduate student; training of 5 field assistants in Burney, Ca; supervision of three grade; faculty member of the Fruit Tree campus club, and speaker for Green week (Biomass)

*College-level:* 1999-2011. Laboratory Instruction (practical and theoretical bases) in the Departments of Biology and Chemistry. Courses included General Biology (BIO NYA- Survey course); General Molecular Biology (BIO LCU), Human Physiology (BIO LCV); Biology for Social Scientists (BIO 921); General Chemistry (CHEM NYA); Chemistry II (CHEM NYB-Physical Chemistry; Organic Chemistry I and II (CHEM LCU and LCV).

*Extension:* Maple Physiology, History and Culture. Annually in March of the year, 2010- 2014 Concordia University, Montreal, QC; Bee Health workshop, Concordia University, 2010-2014, annually in October; Bee Health demo for the advanced beekeeping class, HSU 2015.; Pollination Biology and Beekeeping, UC Master Gardener Small Farm Class, Eureka-Arcata, Ca. Annually, in March of the year. 2016-2017.

## Grants and Scholarship

- 2018 Schatz Tree Farm Grant 20 k (1 year)
- 2018 Green Diamond Resource Company Industry Grant 20k (3 years)
- 2017 Agricultural Research Institute (ARI) Matching Funds grant
- 2015 Baker Cypress Management Plan (BLM) \$840 k (10 years)  
<http://now.humboldt.edu/news/for-the-baker-cypress-fire-suppression-could-be-fatal/>
- 2014 Concordia Part-Time Faculty Union (CUPFA) Travel and Research Grant \$4k
- 2014 Fonds québécois de la Recherche sur la Nature et les Technologies (FQRNT) \$12k
- 2010-13 Fonds québécois de la Recherche sur la Nature et les Technologies \$20k/year
- 2013. Centre of Forest Research conference grant. \$1k.
- 2013. Ontario Ministry of Natural Resources conference grant. \$1k.
- 2012. Centre of Forest Research travel support for field visits in Spain. \$ 2k.

## Media

M.J. McCavour. Environmental Impact Assessment of Housing Projects, analysis of related recent changes to the California Environmental Quality Act guidelines and regulations, and applicability to rural areas. Humboldt County Planners' Association Meeting. September, 2018

P. Solano, M.J. McCavour, and R. Moyer. The SEM process and environmental impact assessment under the North American Free Trade Agreement Commission on Environmental Cooperation (NAFTA CEC). International webinar/webcast, HSU, Toronto, and Montreal, Quebec. April, 2018.

M.J. McCavour. The sustainability and benefit to using forest timber processing biomass residue to supply local energy: "What's the deal with Biomass?" Zero Waste Conference, HSU February 2018

P. Solano, M.J. McCavour, and R. Moyer. The SEM process and environmental impact assessment under the NAFTA CEC. November 2017. Webinar/webcast, HSU and Montreal, Quebec.

M.J. McCavour. Agroforestry: An un-tapped opportunity. HSU Forestry and Wildland Resources April 2017

M.J. McCavour. Presentation of current research projects for Research Recruitment Night, Goodwin Forum HSU. November 2016

M.J. McCavour, D.F. Greene, and J. Kane. Interview with Humboldt State Now, October 2015: For the Baker Cypress, Fire Suppression Could be Fatal

M.J. McCavour. Audio Interview: Creating green space diversity and connectivity. The Montreal Gazette & National Post Media Works. April 2015

M.J. McCavour. CBC Radio Canada (french) Audio Interview: Recent problems facing pollinators, particularly honeybees, and what people can do to help. April 10, 2013

M.J. McCavour. What does NAFTA have to do with pollinators? Audio Interview with

Clement Kent of the Pollinator Gardens Project, Toronto, Ontario. February, 2012, Montreal, Quebec

M.J. McCavour. The Canadian Press (English) The value of pollinators in North America. Audio Interview, Carmen Marie Fabio, Canadian Press. July, 2011

M.J. McCavour. Radio –Canada. Audio Interview: La valeur de la pollinisation. R.C. Science July, 2011

M.J. McCavour. NAFTA Commission on Environmental Cooperation (CEC) webcast. Presentation to the federal environment ministers of Mexico, United States (EPA) and Canada “The importance of tri-lateral action to protect pollinators in North America” CECweb July, 2011,

David Greene & Melanie McCavour “Forests will shrug off Ice Storm” The Ottawa Citizen, p A13 March 2nd, 1998

### **Organizational**

Autumn 2015, 2016, Spring 2017: Apple Ecology and pollination success. Myrtle town, Humboldt County. Invited guests included the UC extension Master Gardener class, local residents, and HSU students.

Spring 2016, 2017, 2018: UC Master Gardener class on pollination biology, pollinator health and management, and fruit yield.

June 7<sup>th</sup>-8<sup>th</sup>, 2014. Organized bilateral participation to the workshop “Diagnosing, treating, and preventing honey bee diseases” by NY Bee Wellness. Stony Kill Farms, Wappingers Falls, NY

March 6<sup>th</sup>, 2014. Presentation at the Sucrerie Ste Adele, Quebec, Canada “History, Economics, Physiology and Ecology of Maple Syrup Production”

January 31<sup>st</sup>, 2014. Cooking with the Prof: “sustainability, food and health”. Held at my house where students prepare a supper and discuss food security & sustainability.

Nov. 23<sup>rd</sup>, 2013. Biodome Field trip. Animated tour of Biomes, Biodiversity, Earth’s history, Conservation. Also given in 2013; 2012; 2011; 2010

Nov. 8<sup>th</sup>, 2013: Invasivore Event: Invasive species & Biodiversity presentation, introduction to the culinary inclusion and preparation of invasive species, and potluck/tasting table.

Oct. 24<sup>th</sup>, 2013: Introduction to the Greenhouse visit, SGW campus (vermicomposting; People’s Potato, greenhouse community projects). Also given in 2012, 2011 and 2010.

October 5<sup>th</sup>, 2013: Field Trip to a Laurentian Sustainable Forest Plantation. Forest products (mushrooms; pellets; timber; pulp) Also given in 2012.

Sept. 28<sup>th</sup>, 2013: Field trip to Mont St. Hilaire: Temperate Broadleaf Forest Biome and Biodiversity; Old growth Forest; Soils; Apple orchards; sustainability and health. Also given in 2012, 2011 and 2010.

September 24<sup>th</sup>, 2013. Presentation and soils demonstration at the Mont-Royal Cemetery Arboretum, Montreal, Quebec, Canada " History and Biodiversity of Mont-Royal and the Environmental Impact of cemeteries on soil and diversity " Also given in 2012.

March 28<sup>th</sup>, 2013. Presentation at the Sucrierie Ste. Adele, Quebec, Canada "History, Economics, Physiology and Ecology of Maple Syrup Production"

November 2<sup>nd</sup>, 2012 1:45 pm: Invasivore Potluck –open invitation to Sustainable Concordia and the Concordia Community

November 2, 2012 12:30 pm: "Forest bioenergy: a green lie or sustainable energy source?" Talk by Steven Cumming, Professor et chercheur scientifique/research scientist, Laval University, Quebec, Quebec.

February 17<sup>th</sup>, 2012 14:30: "Pollinator Gardens- a talk with Clement Kent. Come learn about how and why Pollinator Gardens are made as well as the socio-political issues surrounding them" The Concordia Greenhouse, SGW Campus

December 1<sup>st</sup>, 2011: Open House, 'Biologiste d'un jour' UQAM Biology, Laboratoire de Dr. Messier. Presentation and demonstration on soil sampling.

October 22<sup>nd</sup>, 2011 Concordia University Open House Mini Lecture Series, Loyola International College "*Invasive species and pollinator diversity*"

May 2012-July 2012 Supervised and trained two interns from France, for 3 weeks each, in field methods and technical skills at the CFS (Quebec, Quebec) and in the Haute Mauricie

September 2009. Watershed Cleanup and educational workshop: Chesapeake Watershed Action Group, Department of the Interior, and Conservation Education, USDA FS.

August 2009. Conference Organization: Payment for Ecosystem Services, USDA FS

October 2009. Rapportrice for the workshop on pollinator protection under the aegis of NAFTA at the Canadian Embassy in Washington D.C.

### **Professional Affiliations**

City of Arcata

Association of Environmental Professionals (AEP) California American  
Planning Association (APA)

American Institute of Certified Planners (AICP-in application)

ECO Canada



Centre for Forest Research (CFR/CEF), Quebec, Canada  
NAFTA CEC (North American Free trade Agreement Commission on Environmental Cooperation  
International Association for Impact Assessment (IAIA)  
Association des biologistes du Québec (ABQ) - Quebec Association of Biologists- Soil  
Science Society of America (SSSA)  
International Commission for Plant-Pollinator Relationships (ICPBR) The  
Loyola Sustainability Research Centre (LSRC)  
Association of American Geographers (AAG)  
North American Pollinator Protection Campaign (NAPPC) Pollinator and  
Canadian Pollinator Partnership (P2)  
NY Bee Wellness Organization International  
Tap Association (ITA) Body Harmonics  
Pilates  
The American Council on Exercise (ACE) Barre  
Above™

### **Community**

CEQA regulations and guidelines for Housing Projects, GHD, August  
2018  
Provided a Workshop on Honeybee health, HCBA, May, 2015  
Member of the Humboldt County Beekeepers Association 2015-  
Member of the Humboldt Bay Bicycle Commuters Association 2015- Member and  
Performer (Nutcracker) with North Coast Dance 2014-15 Member of the ECS parent  
teacher association 2014-  
Member of the Sequoia Zoo 2014-  
Member of the Boys and Girls Club of the Redwoods 2015- Yoga and  
Pilates instructor at Healthsport 2015-  
Yoga and Pilates instructor at Le Gym, Concordia University (2013-2014) Stand-  
Up Paddleboard Guide, Level I (ACE)  
Tap Dance: Performances at Place des Arts with Klaxson, and Louise LaPierre (latter for charities):  
Pink Floyd, Tap on through, Tap&Soul, Disco Tap; Broadway; Singin' in the Rain 2002; 2004;  
2010; 2012; 2013.  
Adirondack Park Agency (APA) land owners' association  
Member of Lorneville and Seaview Cemeteries Inc.  
Member of Sustainable Concordia Member of  
Co-op Maison Vert Member of Mountain  
Equipment Coop  
Member of le Versailles Community garden  
Member of the Tyndale St. Georges Community Center; tap instructor for the ASP