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Education

- 1993 Ph.D. in Biology, Section of Neurobiology and Behavior, Cornell University
- 1978 M.D., Harvard Medical School. Harvard - Massachusetts Institute of Technology Program in Health Sciences and Technology.
- 1974 A.B in Biology, Harvard College (*Summa Cum Laude*)

Institutional Affiliations, Appointments, Positions and Work History

- 6/2018 - present Physician and owner, Addiction Solutions, State College, PA
- 2/2012 - 6/2018 Locum tenens physician
- 1/1999- 2/2012 Medical Staff, Altoona Hospital, Altoona, PA
- 6/1995 - 6/2002 Assistant Professor, Penn State University
- 1/1997-12/1998 Medical Staff, Jersey Shore Hospital, Jersey Shore, PA
- 6/1995-6/1997 Medical Staff, Lock Haven Hospital, Lock Haven, PA
- 1/1989-6/1995 Medical Staff, Tompkins Community Hospital, Ithaca, NY
- 6/1980-6/1991 Medical Staff, St. Joseph's Hospital, Elmira, NY
- 6/1993-6/1994 Fellow, Institute for Advanced Studies, Berlin
- 6/1992 - 6/1993 NSF Predoctoral Fellow, Cornell University
- 6/1989 - 6/1990 Senior Visitor, Centre for Mathematical Biology, Oxford University
- 6/1989 - 6/1992 Olin Fellow, Cornell University
- 6/1983- 6/1987 Research Associate, Department of Entomology, Cornell University
- 6/1980-6/1983 Research Associate , Cornell University

6/1979 -6/ 1980 Surgical Intern, University of California at San Diego

6/1978 - 6/1979 Research Fellow, Department of Neurobiology, Harvard
Medical School

Academic Distinctions, Honors and Awards

1993 Fellow, Institute for Advanced Studies, Berlin

1989 NSF Graduate Fellowship

1989 Olin Fellowship (Outstanding Cornell graduate student)

1988 Cornell Graduate Tuition Fellowship

1974 Phi Beta Kappa, Harvard University

1972-1974 Harvard College Scholarship

PUBLICATIONS

Books

Camazine S, Deneubourg JL, Franks N, Sneyd J, Bonabeau E, Theraulaz G.
(2001) Self-Organization in Biological Systems. Princeton University
Press

Camazine S (1991) Velvet Mites and Silken Webs. John Wiley and Sons, New
York.

Camazine S (1987) The Naturalist's Year. John Wiley and Sons, New York.

Scientific Publications (Medical)

Camazine B, Camazine A, Camazine S (2005) Notes From the Field. Back to Ibo
Land: Surgery in Nigeria. Federal Practitioner 22(2): 42, 49-50.

Camazine S, Trainor S (2001) Skin Lesions and Pulmonary Infection. Federal
Practitioner 18(6): 38, 41.

Vetter, RS, Camazine S, Visscher PK (2000) Multiple bee and wasp stings: What
you need to know. Emergency Medicine 32(8): 63-70.

Vetter, RS, Visscher PK, Camazine S (1999) Mass envenomations by honey bees and wasps. *Western Journal of Medicine* 170: 223-227.

Visscher, P. K., R. S. Vetter, S. Camazine. 1996. Removing bee stings. *The Lancet*. 348: 301-302.

Camazine S (1988) Hymenopteran stings: Reactions, mechanisms, and medical treatment. *Bull. Ent. Soc. Amer.* 34: 17-21

Camazine S (1987) Stings! Reactions to bee and wasp stings. *Eastern Apicultural Society Journal* 15: 4-5

Camazine S (1986) Zuni Indian medicine: folklore or pharmacology, science or sorcery? In, *Folk Medicine and Its Scientific Basis* (R. Steiner, ed.). Washington, DC: American Chemical Society

Camazine S, Bye RA (1980) A study of the medical ethnobotany of the Zuni Indians of New Mexico. *J Ethnopharmacology* 2: 365 - 388

Camazine S (1980) Traditional and western health care among the Zuni Indians of New Mexico. *Social Science and Medicine* 14B: 73 - 80

Camazine S, Ryan GB, Unanue ER, Karnovsky, MJ (1976) Isolation of phagocytic cells from the rat renal glomerulus. *Lab Invest* 35: 315 - 326

Publications (Other)

Scientific Publications (refereed journals and book chapters)

Ostiguy N, Sammataro D, Camazine S (1999) A simplified sampling technique for counting varroa on hive bottom boards. *Apidologie*, submitted.

Visscher PK, Shepardson J, McCart L, Camazine S (1999) Vibration signal modulates the behavior of house-hunting honey bees. In Press, *Ethology*

Camazine S, Harrison JF, Marden JH, Kirkton SD, Rozo A, Yang X (1999) Mite not make it home: effects of tracheal mites on the flight metabolic capacity of honey bees. Submitted to *J. Exp. Biology*.

Camazine S, Visscher PK, Finley J, Vetter RS (1999) House-hunting by honey bee swarms: collective decisions and individual behaviors. *Insectes Sociaux*, in press

Visscher PK, Camazine S (1999) Collective decisions and cognition in bees. *Nature* 397: 400.

Visscher PK, Camazine S (1999) The mystery of swarming honey bees: from individual behaviors to collective decisions. In: C. Detrain, J.L. Deneubourg and J.M. Pasteels (eds.) Information Processing in Social Insects, Birkhäuser, Basel.

Schneider SS, Visscher PK, Camazine S (1998) Vibration signal behavior of waggle-dancers in swarms of the honey bee, *Apis mellifera* (Hymenoptera: Apidae). *Ethology* 104: 963-972.

Camazine S, Crailsheim K, Hrassnigg N, Robinson GE, Leonhard B, Kroppniunigg H (1998) Protein trophallaxis and the regulation of pollen foraging by honey bees. *Apidologie* 29: 113-126

Camazine S, Cakmak I, Cramp K, Finley J, Fisher J, Frazier M, Rozo A (1998) How healthy are commercially-produced U.S. honey bee queens. *American Bee Journal* 138(9): 677-680

Camazine S, Liu TP (1998) Virus-like particles associated with the mite, *Varroa jacobsoni*. *Journal of Invertebrate Pathology* 71: 177-178.

Bonabeau E, Theraulaz G, Deneubourg J-L, Aron S, Camazine S (1997) Self-organization in social insects. *Trends in Ecology and Evolution* 12: 188-193.

Kloppenborg P, Camazine S, Sun XJ, Randolph P and Hildebrand J (1997) Organization of the antennal motor system in the sphinx moth *Manduca sexta*. *Cell and Tissue Research* 287: 425-433.

Finley J, Camazine S, and Frazier M (1996) The epidemic of honey bee colony losses during the 1995-1996 season. *American Bee Journal* 136: 805-808

Watmough J, Camazine S (1995) Self-organized thermoregulation of honey bee clusters. *Journal of Theoretical Biology* 176: 391-402

Camazine S (1994) Order from disorder: Cellular automata as models of self-organization in insect societies. In: Deutsch, A (ed) *Muster des Lebendigen*. Verlag Vieweg, Wiesbaden.

- Fries I, Camazine S, Sneyd J (1994) Population dynamics of the honey bee mite, *Varroa jacobsoni*: a model and a review. *Bee World* 75(1): 5-28.
- Camazine S (1993) The regulation of pollen foraging by honey bees: how foragers assess the colony's need for pollen. *Behavioral Ecology and Sociobiology* 32: 265-272
- Jenkins M, Sneyd J, Camazine S, Murray JD (1992) On a simplified model for pattern formation in honey bee colonies. *Journal of Mathematical Biology* 30: 281-306
- Camazine S, Sneyd J (1991) A model of collective nectar source selection by honey bees: self-organization through simple rules. *Journal of Theoretical Biology* 149: 547-571
- Seeley TD, Camazine S, Sneyd J (1991) Collective decision-making in honey bees: how colonies choose among nectar sources. *Behavioral Ecology and Sociobiology* 28:277-290
- Camazine S (1991) Self-organizing pattern formation on the combs of honey bee colonies. *Behavioral Ecology and Sociobiology* 28: 61-76
- Camazine S, Sneyd J, Jenkins MJ, Murray JD (1990) A mathematical model of self-organizing pattern formation on the combs of honeybee colonies. *Journal of Theoretical Biology* 147: 553-571
- Morse RA, Camazine S, Ferracane M, Minacci P, Nowogrodzki R, Ratnieks FLW, Spielholz J, Underwood BA (1990) The population density of feral colonies of honey bees (Hymenoptera: Apidae) in a city in upstate New York. *Journal of Economic Entomology* 83: 81-83
- Camazine S (1989) Beekeeping in South Korea. *Bee World* 70: 66-74
- Camazine S, Morse RA (1988) The Africanized honeybee. *American Scientist* 76: 464-471
- Camazine S (1988) Factors influencing the severity of *Varroa jacobsoni* infestations on European and Africanized honey bees. In: *Africanized Honey Bees and Bee Mites* (GR Needham, RE Page, Jr, M Delfinado-Baker, CE Bowman, eds) Ellis Horwood
- Camazine S (1988) Hymenopteran stings: Reactions, mechanisms, and medical treatment. *Bulletin of the Entomological Society of America* 34: 17-21

- Camazine S (1986) Differential reproduction of the mite, *Varroa jacobsoni*, on Africanized and European honey bees. *Annals of the Entomological Society of America* 79: 801-803
- Camazine S (1986) Zuni Indian medicine: folklore or pharmacology, science or sorcery? In, *Folk Medicine and Its Scientific Basis* (R. Steiner, ed.). Washington, DC: American Chemical Society
- Camazine S (1986) Leaping locomotion in *Mycetophila cingulum* (Diptera: Mycetophilidae): a prepupation dispersal mechanism. *Annals of the Entomological Society of America* 79: 140-145
- Camazine S (1985) Olfactory aposematism: Association of food toxicity with a naturally-occurring odor. *Journal of Chemical Ecology* 11: 1289-1295
- Conner J, Camazine S, Aneshansely D, Eisner T (1985) Mammalian breath: trigger of defensive chemical response in a tenebrionid beetle (*Bolitotherus cornutus*). *Behavioral Ecology and Sociobiology* 16: 115 - 118
- Camazine S, Niklas, KJ (1984) Aerobiology of *Symplocarpus foetidus*: interactions between the spathe and spadix. *American Journal of Botany* 71: 843 - 850
- Camazine S, Lupo AT Jr (1984) Labile toxic compounds of the Lactarii: the role of the laticiferous hyphae as a storage depot for precursors of pungent dialdehydes. *Mycologia* 76: 355 - 358
- Eisner T, Camazine S (1983) Spider leg autotomy induced by prey venom injection: An adaptive response to "pain"? *Proceedings of the National Academy of Sciences* 80: 3382 - 3385
- Camazine S (1983) Mushroom chemical defense: food aversion learning induced by the hallucinogenic toxin, muscimol. *Journal of Chemical Ecology* 9: 1473 - 1481
- Camazine S, Resch J, Meinwald J (1983) Mushroom chemical defense: pungent sesquiterpenoid dialdehyde antifeedant to opossums. *Journal of Chemical Ecology* 9: 1439-1447
- Hildebrand JG, Matsumoto S, Tolbert L, Schneiderman A, Camazine S (1982) Post-embryonic development of the antennal lobe in the moth *Manduca sexta*. In, *Neuronal Development: Cellular Approaches in Invertebrates* (CS Goodman, KG Pearson, eds). *Neurosciences Research Progress Bulletin* 20: 891 - 900

Eisner T, Hill D, Goetz M, Jain S, Alsop, D, Camazine S, Meinwald J.
Antifeedant action of z-dihydromatricaria acid from soldier beetles
(*Chauliognathus spp.*). *Journal of Chemical Ecology* 7: 1149 - 1157

Hildebrand J G, Matsumoto S, Camazine S, Tolbert LP, Blank S, Ferguson H,
Ecker, V (1980) Organization and physiology of antennal centers in the
brain of the moth *Manduca sexta*. In, *Insect Neurobiology and
Pesticide Action (Neurotox 79)*. London: Society for Chemical Industry

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Indians of New Mexico. *Journal of Ethnopharmacology* 2: 365 - 388

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of New Mexico. *Social Science and Medicine* 14B: 73 - 80

Jenkins FA Jr, Camazine S (1977) Hip structure and locomotion in ambulatory
and cursorial carnivores. *Journal of Zoology, London* 181: 351 - 370

Camazine S, Ryan GB, Unanue ER, Karnovsky, MJ (1976) Isolation of
phagocytic cells from the rat renal glomerulus. *Laboratory
Investigation* 35: 315 - 326

Popular and Extension Articles (not refereed)

Bell DA Jr, Gloor S, Camazine S (1999) Biochemical mechanisms of fluvalinate
resistance in *Varroa jacobsoni* mites. Abstract from the Proceedings of
the American Bee Research Conference. *Am Bee Journal* 139(4):
308-309

Finley J, Sammataro D, Camazine S (1999) Queens in transit: spying on the post
office. Abstract from the Proceedings of the American Bee Research
Conference. *Am Bee Journal* 139(4): 308-309

Camazine S (1995) Collective intelligence in insect colonies by means of self-
organization. In, *Yearbook 1993/94: Institute for Advanced Study*.
Berlin: Nicolaische Verlagsbuchhandlung.

Camazine S (1993) Biodiversity: What's in it for us? *Cornell Magazine* 96(4):
38-41

Camazine S (1993) Designed by nature. *World & I* 8(3): 202-207

Camazine S (1987) Stings! Reactions to bee and wasp stings. *Eastern Apicultural
Society Journal* 15: 4-5

- Camazine S (1987) Spider watch. *Finger Lakes Magazine* 3: 27-31
- Camazine S, Visscher PK (1987) Swarms at sunset: The case of the European chafer. *Gleanings in Bee Culture* 115: 413-414
- Camazine S (1987) Glimpses of the white-tailed deer. *Appalachia* 53: 18-23
- Camazine S (1986) Macro nature photography. *The Outdoor Communicator* 17: 12-17
- Camazine S (1986) Skunk cabbage: a warm-blooded plant of the swamps. *The Outdoor Communicator* 17: 2-5
- Camazine S (1986) Queen rearing in São Paulo State, Brazil: A Beekeeper's Experience of Over 20 Years. *American Bee Journal* 126: 414-416
- Camazine S (1986) The intrigue of webs. *Appalachia* 52: 10-12
- Camazine S (1986) Honey bee swarms. *Appalachia* 52: 10-13
- Camazine S (1985) Tracheal floatation: a rapid method for the detection of honey bee acarine disease. *American Bee Journal* 125: 104 - 105
- Camazine S (1985) Catch a falling snowflake. *Appalachia* 51: 13-17
- Camazine S (1984) The salamander migration. *Conservationist* 38: 32 - 33
- Camazine S (1983) Opossums as mushroom tasters. *McIlvainea* 6: 9 - 12
- Camazine S (1982) Edible mushrooms in Cornell Plantations. *Cornell Plantations Quarterly* 38: 38 - 39

Microcomputer Publications (not refereed)

- Camazine S (1986) Turtle biology: finding one's way with Logo. *Classroom Computer Learning* 6: 58-60
- Camazine S (1985) A computerized filing system for medical literature. *Resident and Staff Physician* 31(11): 77-79
- Camazine S (1985) Graphing and analyzing data on a personal computer. *Resident and Staff Physician* 31(1): 85 - 90

Camazine S (1984) Prescription for a medical malaise. PC Magazine 3(4): 289 - 291

Camazine S (1984) Graphing medical statistics. PC Magazine 3(6): 293 - 294

Camazine S, Dain FW (1983) Computer-generated stereoscopic images. PC Tech Journal 1: 57 - 60

revised June 2019

A handwritten signature in black ink that reads "Jeff Camazine". The signature is written in a cursive, flowing style with a large initial "J" and "C".