

November, 2009

CURRICULUM VITAE

Name: John Janovy, Jr.

Title: Paula and D. B. Varner Distinguished Professor of Biological Sciences;
Research Associate, University of Nebraska State Museum

Specialty: Protozoology/Parasitology/Parasite Ecology.

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Education: Classen High School, Oklahoma City, Oklahoma; Diploma, June, 1955.
University of Oklahoma, Norman; B.S. in Math, June, 1959.
University of Oklahoma, Norman; M.S. (Zoology), June, 1962.
University of Oklahoma, Norman; Ph.D. (Zoology), June, 1965
Rutgers, New Brunswick, N.J.; Post-Doctoral, 1965-66.

Military Service: U.S. Army Active Reserve, 1959-1966 (Artillery, Captain)

Professional Experience:

Director, Cedar Point Biological Station, 1993-1999
Interim Director, University of Nebraska State Museum, 1994-1996
Professor of Biological Sciences, University of
Nebraska-Lincoln, August, 1974 - present.
Director, Cedar Point Biological Station, 1979-1986.
Interim Director, University of Nebraska State Museum, 1984-86.
Associate Professor of Zoology, UN-L, 1971-1974.
Assistant Dean, College of Arts and Sciences, UN-L, 1970-1972.
Assistant Professor of Zoology, UN-L, 1966-1971
Post-doctoral trainee, Rutgers, 1965-1966.
Special Instructor, University of Oklahoma, 1965.
Research Assistant, (to J.T. Self), University of Oklahoma, 1963-1965.
Teaching Assistant, University of Oklahoma, 1962-1963.

Professional Societies:

American Society of Parasitologists
American Microscopical Society
Society of Protozoologists
Southwestern Association of Parasitologists
Helminthological Society of Washington
Sigma Xi

Honors and Awards:

University of Nebraska Foundation Award for Distinguished Teaching,
1970 (Foundation medal plus \$1000)
Nebraskaland Foundation Pioneers Award for service to the state, 1983
Bishop Clarkson School of Nursing Loren Eiseley award for writing
relating the sciences and humanities, 1986
University Honors Program Master Lecturer, 1986
American Health magazine book award for 1987 (for *Fields of Friendly
Strife*)
Mayor's (Lincoln) Arts Award, Literary Heritage, 1988
Phi Beta Kappa, 1988
Innocents Society, honorary member
Centennial Educational Program Fellow, 1971-1973
University of Nebraska Burlington Northern Faculty Achievement
Award, 1990 (Foundation medal plus \$3000)
Paula and D. B. Varner Distinguished Professorship, 1991- present
Midland Lutheran College Honorary Doctor of Science, 1991
University of Nebraska Outstanding Research and Creativity Award,
1998 (Foundation medal plus \$3500)
George M. Sutton Lecturer, University of Oklahoma, 1999
The Nature Conservancy, Nebraska Hero recognition, 2000.
UNL Centennial Lecture, *Who's Infected with Whom? The Natural
History of Parasites*, spring, 2000
Nebraska Library Association Mari Sandoz Award, 2002
American Society of Parasitologists Clark P. Read Mentorship Award,
2003
Friends of the UNL Libraries Hartley Burr Alexander Award, 2005
Thomas Cole Lecturer, Wabash College, 2006
UNL Parents Association and Teaching Council Certificate of
Recognition for Contributions to Students (11 years' recognition)

School Committees:

Zoology graduate committee; chair, 1969-71
School of Biological Sciences ad hoc bylaws committee; chair, 1973
School of Biological Sciences Curriculum Committee; elected chair,
1974-1976;1988-1992
School of Biological Sciences Promotion and Tenure Committee;
elected chair, 1974-1976
School of Biological Sciences Executive Committee; Cell Biology and
Genetics Section chair, 1977-78; Organismic Biology Section chair,
1989 -1990
School of Biological Sciences Undergraduate Affairs Committee, 1998
– present
Several faculty position search committees

College Committees:

Arts and Sciences Degrees with Distinction Committee; chair, 1971-
1972
Arts and Sciences Curriculum Committee; secretary, 1970-72
Search Committee for Director, School of Biological Sciences, 1974-75

University Committees:

Ad hoc Environmental Institute Committee; 1971-1972
Nebraska Water Resources Research Institute Executive Board; 1971-
1976
Nebraska Student Union Governing and Advisory Board; 1970-1978
(committee had a student majority)
UN-L Graduate Council; elected 1974-1975 and 1987-1990
UN Press Advisory Board; 1985-1990
Search Committee for Dean, College of Arts and Sciences, 1975
Search Committee for Dean, College of Agriculture; 1988
Search Committee for Dean, College of Arts and Sciences, 1999-2000
Academic Planning Committee (Graduate Council representative);
1988-1990
Ad Hoc program review committees:
Department of Architecture, 1988
Department of Classics, 1989
Trio Programs, 2005
General Education Task Force, 1991-1995
University Honors Program Advisory Committee, 1986-present
Nebraska Bioethics Committee, 1999-present
University of Nebraska Press Director Search Committee, 2001-2002
Thompson Forum Speaker Selection Committee, 2002-present
UN-L General Education Planning Team and Advisory Committee
Chairs, 2005-2007 (see <http://ace.unl.edu>)

Professional Society Positions and Committees:

American Society of Parasitologists: Honorary and Emeritus Members chair; Annual Meetings local arrangements co-chair, 1987 (national meetings were at UN-L in 1987); Vice President, 1990; Student Awards Committee chair, 1991; Secretary-Treasurer (2004-2009).

Secretary-Treasurer of the American Society of Parasitologists – This office is the equivalent of the editorship of a major peer-reviewed journal or management of a small business. I am the chief business officer for an international scientific organization, responsible for budget, membership, endowment investments, annual business meeting records and minutes, records of Council actions and votes, society annual report, and the execution of contracts (e.g. meeting site venues, BioOne, JSTOR, etc.). I work closely with accountants and business managers paid by the society to ensure compliance with Federal and state tax laws.

Southwestern Association of Parasitologists: Program Officer and President-Elect, 1988; President, 1989; Secretary-Treasurer, 1995-2001.

Advising:

Chief Adviser, Integrated Studies, 1971-1972.

Pre-med adviser, 1967 - present (informal but extensive since opening of SBS Advising Center)

Campus Visits – At the request of the Campus Visits office, I meet personally with about 20 families annually—typically with high school seniors applying to the UN-L Honors Program.

Administrative Experience:

College of Arts and Sciences, Assistant Dean, 1970-1972.

Administrative responsibilities included review and college level approval of grant applications, annual update of college bulletin, secretary of curriculum committee, lobbying with state legislature, and miscellaneous advising, appeal cases, recruiting, etc.

School of Biological Sciences, Director, Cedar Point Biological Station, fall, 1979 to fall, 1986, and spring 1993 to fall, 1999.

Responsibilities included budgetary planning, staffing, physical plant maintenance, student recruitment, public relations, research strengthening, and food service for summer field station in western Nebraska, although day to day operations and actual performance of most of these tasks were handled by either a student assistant (1979-1986) or an Associate Director (1993-1999).

Interim Director, UN State Museum, fall, 1984 through summer, 1986, and fall, 1994, through summer, 1996.

Responsibilities included budget preparation and planning, safety planning and safety audit responses, inventory and audit responses, hiring, curator and support staff annual evaluation, public relations, liaison with citizens support organization, salary recommendations, exhibits planning, security, and educational services planning for a natural history museum with about 60 staff members (9 Ph D level curators) in botany, zoology, entomology, parasitology, paleontology, and anthropology, as well as a planetarium program.

Teaching Responsibilities

General Biology (BIOS 101) or General Zoology (BIOS 112) almost every semester since September, 1966. Enrollment in these courses ranged from 140-350 students per semester. I supervised and coordinated laboratory instruction in General Zoology and wrote the lab manual for the years when I was assigned to BIOS 112 (1967 through mid-1990s).

Biodiversity (BIOS 204) was started as one of the new core majors' curriculum courses in 1996-97. This course enrolled ~100 students and was my responsibility in the spring semesters through spring, 2005. I wrote one of the texts used some semesters, designed the labs, and wrote the laboratory manual for this course although we now use a different text and different lab exercises. I also instructed and supervised the TAs in this course during the semesters assigned to it. BIOS 204 was changed to BIOS 103, Organismic Biology, effective 2004-05AY.

Intermediate level course in Invertebrate Zoology (BIOS 381) taught regularly in fall semesters. I design the laboratories for this course and train the TA.

Intermediate level course in Parasitology (BIOS 385). BIOS 385 is my responsibility in the spring semesters, beginning with 2006. I design the laboratories and train the TAs in this course.

Advanced courses include a senior/graduate course in Protozoology and graduate-only Advanced Invertebrate Zoology offered periodically upon request.

Field Parasitology (BIOS 487/887) is a summer field course taught at the Cedar Point Biological Station (CPBS). I have written the text/lab manual and am co-author on the statistical package for this course. BIOS 487/887 has been taught continuously at CPBS since 1976.

Graduate seminar in parasitology (BIOS 915P) is my responsibility alternate semesters.

Centennial Educational Program (Centennial College) was an experimental undergraduate residential college emphasizing independent, cross-disciplinary, project oriented, study. I participated 1/3 time in spring semesters, 1971 and 1973, in Centennial College.

Honors undergraduates: Since 1968, numerous undergraduates have done honors projects in my laboratory. Of these students, five have been Degree with Distinction candidates with required theses based on the honors research and one has been awarded a Fulbright Scholarship to study in Mexico.

University Honors Program: This campus-wide program was initiated in 1986. I was selected to deliver the first series of Master Lectures and teach a 2cr freshman seminar. The Master Lectures consisted of 14 lectures on the subject: *Perceptions of the Universe*. In the spring of 1989 and following years, I taught a junior level University Honors Program seminar (topics included Global Ecological Problems; Science and Society; The Future, The Evolution of Ideas, etc.), and beginning with the 1994-95 year, taught a sophomore honors seminar entitled Research Methods in the Sciences for the next three years.

Writing About Nature (English 453/852): I taught this course once (spring, 2004) with 17 students ranging from undergraduate to doctoral level English majors.

Reviewer:

Numerous grant proposals (NSF, WHO, Nebraska and North Dakota state agencies) and manuscripts (Journal of Parasitology, Transactions of the American Microscopical Society, Comparative Parasitology, Journal of Eukaryotic Microbiology, Journal of Protozoology, Canadian Journal of Zoology, Acta Protozoologica, American Zoologist).

Research and Creative Activities:

Funding:

UN-L Research Council, approximately \$13,000 since 1966 for equipment, visiting scholars, research assistants, summer fellowships and supplies.

Department of Army, \$60,400 in Research and Development contracts between 1969 and 1975 for support of studies of comparative metabolism of *Leishmania* species (Protozoa).

National Science Foundation, \$43,100 from April, 1976-1978, for studies of virulence and metabolism in *Leishmania donovani*.

World Health Organization, \$50,000 from 1978-1981 for studies of agar plate culture of Trypanosomatidae (Protozoa).

Nebraska Water Resources Research Center, \$6600 from 1980-1983, for studies on fish parasite species assemblages as indicator systems for use in developing surface water management schemes.

UN-L Teaching Council, \$700, 1976, to develop non-majors freshman teaching materials from Cedar Point Biological Station settings.

Graduate Students Supervised:

Masters Students:

M.I. Moslih, MS, June 1968 (PhD UNMC)

E.C. Greiner, MS, June, 1969 (stayed for PhD at UNL)

P.M. Daggett, MS, 1972 (stayed for PhD at UNL)

S.A. Knight, MS, June, 1976 (now with US Dept Agriculture, Washington, D. C.)

Ann Marie Adams, MS, June, 1981 (PhD, June, 1988, University of Washington, now research scientist with FDA in Kansas City)

Eugene L. Hardin, MS, June, 1987 (physician; United States Army)

Ralene Mitschler, MS, August, 1988 (PhD, KSU, post-doctoral Stanford; now Assoc Prof Biol, McDaniel College)

Timothy Ruhnke, MS, June, 1988 (PhD, U Conn; now Assoc Prof Biol, West Virginia State Univ)

Michael Ferdig, MS, December, 1990 (PhD University of Wisconsin Madison, now Assist Prof, Notre Dame)

Mary Ann McDowell, MS, December, 1990 (PhD, University of Wisconsin Madison, now Assist Prof, Notre Dame)

Tami Percival, MS, August 1992 (now Assoc. Prof Biology, Sam Houston State University)

Aris Efting (Holt), MS, 1994 (now Research Assistant Professor, School of Natural Resources, UNL)

Laura Krebs, MS, 1995 (was PhD student, University of Arizona, no contact for several years)

Megan Wise, MS, 1998 (PhD, Colorado State University, now post-doctoral researcher, Colorado State University)

Jennifer Schawang, MS, 2000 (now technician, University of Oklahoma Medical Center)

Jaclyn Helt, MS, 2003 (now secondary science teacher, Ohio)

Jillian Detwiler, MS, 2004 (now PhD student, Purdue University)
Samana Schwank, MS, 2004 (now PhD student, London School of Tropical
Medicine).

Doctoral Students:

A.E. Poorman, PhD, June, 1969 (retired Prof of Biology, Kearney State
College [now KSU])
E.C. Greiner, PhD, June 1971 (now Prof Prev Med, College Vet Med, Univ
of Florida)
N.R. Dollahon, PhD, June, 1971 (now Prof Biology, Villanova)
A. Bhattacharya, PhD, December, 1973 (now Prof Zoology, University of
Calcutta)
P.M. Daggett, PhD, July, 1975 (formerly Curator of Protists, ATCC; now
with Verizon Corporate Services, Washington, DC)
Joan E. Decker, PhD, December, 1974 (lost contact)
W.L. Current, PhD, August, 1977 (now with Eli Lilly) **Winner of H. B.
Ward Medal, American Society of Parasitologists (ASP)**
Amy Doran Keppel, PhD, August, 1979 (now M.D., Minneapolis)
Richard Clopton, PhD, 1993 (now Prof Biology, Peru State College)
**Winner, 1992 American Society of Parasitologists National
Student Paper Competition**
Scott Snyder, PhD, 1996 (now Assoc Prof Biology, University of Nebraska
Omaha and NSF Program Officer) **Winner, 1994 ASP National
Student Paper Competition and Winner, 1997 ASP Clark P.
Read Young Investigator Award**
Ben Hanelt, PhD, 2002 (now post-doc, University of New Mexico)
Winner, 1998 ASP national student paper competition
Matt Bolek, PhD, 2006 (now Assistant Professor, Oklahoma State
University); **Winner, 2005 ASP National Student Paper
Competition.**
Alaine Knipes; PhD candidate; current
Gabriel Langford; PhD candidate; current

Undergraduate Howard Hughes Scholar Research Directed:

Jill Anderson (1993, Head regeneration in annelid worms); now University
of Nebraska College of Medicine faculty member.
Mike Barger (1993, Host specificity in *Rhabdochona canadensis*); MS at
UNL; PhD from Wake Forest; now faculty member at Peru State
College
Megan Wise (1994, Mucus secretion in gregarine parasites); PhD and now
post-doc at Colorado State University
Mary Ann Addison (1994, Host specificity in *Tribolium* gregarines); now
secondary science teacher in San Diego
Stephanie Watwood (1995, Host specificity in *Gregarina triboliorum*); now
PhD in animal behavior from MIT

Erica Peterson (1995, Parasite community dynamics in *Cyprinella lutrensis*); now MD from Duke.
Renee Stockland (1996, Quantification of host-parasite encounter dynamics in first instar *Tenebrio molitor* larvae); now science teacher.
Anne Loeb (1996, Host specificity in gregarines of sylvanid beetles); now PhD from University of Michigan
Terri Keber (1997, Comparative gregarine gametocyst development); now MD from UNMC.
Molly Weichman (1998, Fish parasites as indicator communities); now MD from UNMC.

Examples of Other Undergraduate Research Directed (past seven years):

Heidi Baumart (Community structure and geographic distribution of gregarine parasites in damselflies); now MD from Georgetown.
Wendy Allen (Taxonomic revision of gregarine parasites in *Tribolium freemani*); now medical student at Georgetown.
Megan Collins (Monogene communities in centrarchid fishes as a function of habitat and host isolation); now teacher in Omaha.
Adam Brosz (Potential competitive interactions and niche structure of monogenean parasites of Black Bass); now MD from UNMC.
Kate Hutchens (Comparative anatomy of three leech species); 2005 MD graduate from UNMC.
Kathleen Brazeal (Niche of feather mites on cliff swallows); now PhD candidate at University of California-Davis.
Mackenzie Waltke (Effect of host diet on parasite survival and growth in beetles, *Tribolium confusum*); now PhD candidate in virology at UNL.
Erica Peterson (Carbohydrate storage in cell compartments of gregarine parasites in adult vs. larval beetle hosts – NOTE: This is not the same Erica Peterson as listed above.); **Fulbright Scholar, 2005-06, with study in Mexico**, now medical student at UNMC.
Jodi Schreurs (Effect of host diet on parasite carbohydrate storage in parasites of beetles, *Tribolium destructor*); now medical student at UNMC.

Consultantships:

World Health Organization, 1977-1982; Member Scientific Working Group (SWG) in Leishmaniasis, member and chairman, Leishmaniasis steering committee, both organizations within Special Programme in Tropical Diseases.
Univ South Dakota, 1989, Science education improvement program outside reviewer.
Univ South Dakota, 1990, outside reviewer and on-site evaluator for doctoral program proposal in biological sciences (combined USD and SDSU).

Nebraska Public Television, 1990, script and proposal reviewer on hunting film.
Western Heritage Museum, Omaha, 1996, exhibits and associated education planning and design
University of Wisconsin Oshkosh, 1998, External Program Review Committee
University of Nebraska Lincoln, 2005, TRIO Program External Review Committee
Wake Forest University, Department of Biology, 2009, External Program Review team.

Bibliography:

Papers and Book Chapters:

- Janovy, J. Jr. 1962. Observations on the size of the ciliate *Dileptus anser*. Proc. Okla. Acad. Sci., 42:290-291.
- Janovy, J. Jr. 1963. Monsterism in *Dileptus* (Ciliata) fed on planarians (*Dugesia tigrina*). J. Protozool., 10:428-430.
- Janovy, J. Jr. 1964. A preliminary survey of blood parasites of Oklahoma birds. Proc. Okla. Acad. Sci., 44:58-61.
- Janovy, J. Jr. 1966. Epidemiology of *Plasmodium hexamerium* Huff, 1935, in meadowlarks and starlings of the Cheyenne Bottoms, Barton County, Kansas. J. Parasitol., 52:573-578.
- Janovy, J. Jr. 1966. Mosquitoes of the Cheyenne Bottoms Waterfowl management Area, Barton County, Kansas. J. Kans. Ent. Soc., 39:557- 561.
- Janovy, J. Jr. 1967. Respiratory changes accompanying leishmania to leptomonad transformation in *Leishmania donovani*. Exptl. Parasitol., 20:51-55.
- Janovy, J. Jr. 1972. Temperature and metabolism in *Leishmania*. III. Some dehydrogenases of *L. donovani*, *L. mexicana* and *L. tarentolae*. Exptl. Parasitol., 32:196-205.
- Janovy, J. Jr. 1973. The other side of Biology. Bios, 44:115-120 (invited paper).
- Janovy, J. Jr. 1977. Some problems in the comparative physiology of trypanosomatid flagellates. Acta Tropica (invited paper), 34:177-184.
- Janovy, J. Jr. 1987. Biochemistry and physiology (chapter 3) In: W. Peters and R. Killick-Kendrick, eds. The Leishmaniases in biology and medicine. Academic Press, Inc., London, vol I. (invited chapter)
- Janovy, J. Jr., 1997. Protistans, helminths, and arthropods. In: Coevolution of birds and their parasites (D. Clayton and J. Moore, eds), Oxford University Press. (invited chapter)
- Janovy, J. Jr. 2002. Defining the field: Concurrent infections and the community ecology of helminth parasites. J. Parasitol., 88:440-445. (invited review).
- Janovy, J. Jr. 2003. Acceptance of the Clark P. Read Mentor Award: The Teague Self Lessons. J. Parasitol. 89:1109-1111.
- Janovy, J. Jr., M. G. Bolek, J. Detwiler, S. Schwank, A. Knipes, and G. Langford. 2007. *Gregarina niphandrodes* (Eugregarinorida: Septatorina): Oocyst surface architecture. J. Parasitol. 93:714-716.
- Janovy, J. Jr, R. E. Clopton and T. J. Percival. 1992. The roles of ecological and evolutionary influences in providing structure to parasite species assemblages. J. Parasitol., 78:630-640.

- Janovy, J. Jr., R. E. Clopton, D. A. Clopton, S. D. Snyder, A. Efting, and L. Krebs. 1993. Species density distributions as null models for ecologically significant interactions of parasite species in an assemblage. *Ecological Modelling*, 77:189-196.
- Janovy, J. Jr., P. M. Daggett and K. W. Lee. 1974. *Herpetomonas megaseliae*: Architectural rearrangements during amastigote formation. *J. Parasitol.*, 60:716-718.
- Janovy, J. Jr., P. M. Daggett, S. Knight and J. Gunderson 1975. Differentiation in *Herpetomonas megaseliae*: Population and physiological changes. *Proc. Okla. Acad. Sci.*, 55:130-135. (J. T. Self retirement honor volume)
- Janovy, J. Jr., J. Detwiler, S. Schwank, M. G. Bolek, A. K. Knipes, and G. J. Langford. 2007. New and emended descriptions of gregarines from flour beetles (*Tribolium* spp. and *Palorus subdepressus*: Coleoptera, Tenebrionidae). *J. Parasitol.* 93:1155-1170.
- Janovy, J. Jr., M. T. Ferdig and M. A. McDowell. 1990. A model of dynamic behavior of a parasite species assemblage. *J. Theoret. Biol.*, 142:517- 529.
- Janovy, J. Jr. and E. L. Hardin. 1987. Population dynamics of parasites in *Fundulus zebrinus* in the Platte River of Nebraska. *J. Parasitol.*, 73:689-696.
- Janovy, J. Jr. and E. L. Hardin. 1988. Diversity of the parasite assemblage of *Fundulus zebrinus* in the Platte River of Nebraska. *J. Parasitol.*, 74:207-213.
- Janovy, J. Jr. and G. W. Kutish. 1988. A model of encounters between host and parasite populations. *J. Theoret. Biol.*, 134:391-401.
- Janovy, J. Jr., K. W. Lee and J. A. Brumbaugh. 1974. Differentiation in *Herpetomonas megaseliae*: Ultrastructural observations. *J. Protozool.*, 21:53-59.
- Janovy, J. Jr., and K. M. Major. 2009. Why we have field stations: reflections on the cultivation of biologists. *BioScience* 59:217-222. (invited lead article in an issue devoted to field stations)
- Janovy, J. Jr., M. A. McDowell and M. T. Ferdig. 1991. The niche of *Salsuginus thalkeni*, a gill parasite of *Fundulus zebrinus*. *J. Parasitol.*, 77:697-702.
- Janovy, J. Jr., and A. E. Poorman. 1969. Temperature and metabolism in *Leishmania*. I. respiration in *L. donovani*, *L. mexicana* and *L. tarentolae*. *Exptl. Parasitol.*, 25:276-282.
- Janovy, J. Jr., T. R. Ruhnke and T. A. Wheeler. 1989. *Salsuginus thalkeni* n. sp (Monogenea: Ancyrocephalidae) from *Fundulus zebrinus* in the South Platte River of Nebraska. *J. Parasitol.*, 75:344-347.
- Janovy, J. Jr., S. D. Snyder, and R. E. Clopton. 1997. Evolutionary constraints on population structure: the parasites of *Fundulus zebrinus* (Pisces: Cyprinodontidae) in the South Platte River of Nebraska. *J. Parasitol.*, 83:584-592.
- Anderson, J. A., K. J. Blazek, T. J. Percival and J. Janovy, Jr. 1993. The niche of the gill parasite *Dactylogyrus banghami* (Monogenea: Dactylogyridae) on *Notropis stramineus* (Pisces: Cyprinidae). *J. Parasitol.*, 79:435-437.
- Barger, M. A. and J. Janovy, Jr. 1994. Host specificity of *Rhabdochona canadensis* (Nematoda: Rhabdochonidae) in Nebraska. *J. Parasitol.*, 80:1032-1035.
- Bhattacharya, A. and J. Janovy, Jr. 1975. *Leishmania donovani*: Autoradiographic evidence for molecular exchanges between parasite and host cell. *Exptl. Parasitol.*, 37:353-360.
- Bolek, M. G., K. K. Brotan, R. E. Rudolph, and J. Janovy Jr. 2007. *Bufo woodhousii* (Woodhouse's Toad). Cannibalism. *Herpetological Review*. 38(3): 319.
- Bolek, M. G., J. Janovy, Jr., and A. R. Irizarry-Rovira. 2003. Observations on the life history and descriptions of coccidia (Apicomplexa) from the western chorus frog, *Pseudacris triseriata triseriata*, from eastern Nebraska. *J. Parasitol.*, 89:522-528.

- Bolek, M. G., and J. Janovy, Jr. 2004. Observations on myiasis by the calliphorids, *Bufolucilia silvarum* and *Bufolucilia elongata*, in wood frogs, *Rana sylvatica*, from southeastern Wisconsin. *J. Parasitol.*, 90:1169-1171.
- Bolek, M. G., and J. Janovy, Jr. 2004. *Rana blairi* (Plains Leopard Frog). *Prey. Herpetological Rev.*, 35:262.
- Bolek, M. G. and J. Janovy Jr. 2004. *Rana catesbeiana* (Bullfrog) Gigantic Tadpole. *Herpetological Rev.* 35(4):376-377.
- Bolek, M. G. and J. Janovy Jr. 2005. New host and distribution records for the amphibian leech *Desserobdella picta* (Rhynchobdellida: Glossiphoniidae) from Nebraska and Wisconsin. *J. Freshwater Ecol.* 20 (1):187-189.
- Bolek, M. G., and J. Janovy, Jr. 2007. Small frogs get their worms first: the role of non-odonate arthropods in the recruitment of *Haematoloechus coloradensis* and *Haematoloechus complexus* in newly metamorphosed northern leopard frogs, *Rana pipiens*, and Woodhouse's toads, *Bufo woodhousii*. *J. Parasitol.*, 93:300-312.
- Bolek, M. G., and J. Janovy, Jr. 2007a. Evolutionary avenues for, and constraints on, the transmission of frog lung flukes (*Haematoloechus* spp.) in dragonfly second intermediate hosts. *J. Parasitol.*, 93:593-607.
- Bolek, M. G., and J. Janovy Jr. 2007. *Rana catesbeiana* (Bullfrog). Diet. *Herpetological Review.* 38(3): 325-326.
- Bolek, M. G., S. D. Snyder, and J. Janovy, Jr. 2009. Redescription of the frog bladder fluke *Gorgoderina attenuata* from the Northern Leopard Frog, *Rana pipiens*. *J. Parasitol.* 95:665-668.
- Bolek, M. G., S. D. Snyder, and J. Janovy Jr. 2009a. Alternative life-cycle strategies and colonization of young anurans by *Gorgoderina attenuata* in Nebraska. *J. Parasitol.* 95:604-616.
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- Clopton, R. E., J. Janovy, Jr. and T. J. Percival. 1992. Host stadium specificity in the gregarine assemblage parasitizing *Tenebrio molitor*. *J. Parasitol.*, 78:334-337.
- Clopton, R. E., T. J. Percival and J. Janovy, Jr. 1991. *Gregarina niphandrodes* n. sp. (Apicomplexa: Eugregarinorida) from adult *Tenebrio molitor* (L.) with oocyst descriptions of other gregarine parasites of the yellow mealworm. *J. Protozool.*, 38:472-479.
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- Clopton, R. E., T. J. Percival and J. Janovy, Jr. 1993. *Nubenocephalus nebraskensis* n. gen., n. sp. (Apicomplexa: Actinocephalidae) from adults of *Argia bipunctulata* (Odonata: Zygoptera). *J. Parasitol.*, 79:533-537.
- Collins, M. R., and J. Janovy, Jr. 2003. Host specificity among Ancyrocephalineae (Monogenoidea) of Nebraska sunfish. *J. Parasitol.* 89:80-83.
- Cook, T. J. P., J. Janovy, Jr., and R. E. Clopton. 2001. Epimerite-host epithelium relationships among eugregarines parasitizing the damselflies *Enallagma civile* and *Ischnura verticalis*. *J. Parasitol.*, 87:988-996.
- Current, W. L. and J. Janovy, Jr. 1976. Interlamellar *Henneguya exilis*: Ultrastructure of the plasmodium wall and associated host's cells. *J. Parasitol.*, 62:975-981.
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Papers in Press (accepted):

- Janovy, J. Jr. 2010. Talking and Writing About Science: The Challenge and the Need. In: *Taking Science to the People: A Communication Primer for Scientists, Engineers and Journalists*, C. Johnsen, Ed. University of Nebraska Press, Lincoln.
- Knipes, A. K., and J. Janovy, Jr. 2009. Community structure and seasonal dynamics of *Dactylogyrus* spp. (Monogenea) on the fathead minnow (*Pimephales promelas*) from the Salt Valley watershed, Lancaster County, Nebraska. *J. Parasitol.*; accepted and in press.
- Langford, G. J. and J. Janovy, Jr. 2009. Comparative life cycles and life histories of North American *Rhabdias* spp. (Nematoda: Rhabdiasidae): lungworms from snakes and anurans. *J. Parasitol.*; accepted and in press.

Papers in Review:

- Bolek, M. G., H. R. Tracy, and J. Janovy, Jr. 2009. The role of damselflies (Odonata: Zygoptera) as paratenic hosts in the transmission of *Halipegus eccentricus* (Digenea: Hemiuridae) to anurans. *J. Parasitol.*

Papers in Preparation (initial drafts complete, submission within 90 days):

- Janovy, J. Jr., M. G. Bolek, A. K. Knipes, G. J. Langford, and K. M. Major. 2009. Evolution of trematode life cycles: a simulation model. (Program code by JJJr.; field data sets from Bolek, Langford, and literature sources; review and literature by Knipes and Major.)

Service Publications:

- Janovy, J. Jr. 2004. American Society of Parasitologists: Minutes of the Ninety-Fourth Annual Council Meeting, 24 July 2004, Philadelphia, PA. *J. Parasitol.*, 90(6):1216-1227.

- Janovy, J. Jr. 2004. American Society of Parasitologists: Minutes of the Seventy-ninth Annual Business Meeting, 24 July 2004, Philadelphia, PA. *J. Parasitol.*, 90(6):1228.
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- Janovy, J. Jr. 2006. American Society of Parasitologists: Minutes of the Ninety-Sixth Annual Council Meeting, 6 August 2006, Glasgow, Scotland. *J. Parasitol.*, 92(6):1136-1149.
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- Janovy, J. Jr. 2007. American Society of Parasitologists: Minutes of the Eighty-Second Annual Business Meeting, 25 June 2007, Mérida, Mexico. *J. Parasitol.*, 93(6):1283-1284.
- Janovy, J. Jr. 2008. American Society of Parasitologists: Minutes of the Ninety-Eighth Annual Council Meeting, 27 June 2008, Arlington, Texas. *J. Parasitol.*, 94(6):1210-12.
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- Janovy, J. Jr. 2009. American Society of Parasitologists: Minutes of the Ninety-Ninth Annual Council Meeting, 14 August 2009, Knoxville, Tennessee. *J. Parasitol.* (in press, proofs returned)
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Books:

- Janovy, J. Jr. 2008. *Outwitting College Professors*, 2nd Ed. Pearson Custom Publishing, Boston, MA. 149p.
- Janovy, J. Jr. 2006. *Outwitting College Professors*, (Amazon.com, ISBN 1434836576, focus group reviewed) 134p.
- Janovy, J. Jr. 2004. *On Becoming a Biologist*, 2nd Ed. University of Nebraska Press, Lincoln, NE. 153p.
- Janovy, J. Jr. 2003. *Teaching in Eden: the Cedar Point lessons*. Routledge Falmer, New York, NY. 187p.

- Janovy, J. Jr. 1997. *Ten Minute Ecologist: Twenty answered questions for busy people facing environmental issues*. St. Martin's Press, N.Y. 127p.
- Janovy, J. Jr. 1994. *Dunwoody Pond: Reflections on the high plains wetlands and the cultivation of naturalists*. St. Martin's Press, NY; 288p. (Trade paperback, University of Nebraska Press, 2001)
- Janovy, J. Jr. 1992. *Vermilion Sea: A naturalist's journey in Baja California*. Houghton Mifflin, Boston, 226p.
- Janovy, J. Jr. 1987. *Fields of Friendly Strife*. Viking/Penguin, New York.130p. (trade paperback, Penguin, 1988)
- Janovy, J. Jr. 1985. *On Becoming A Biologist*. Harper and Row, New York, 160p. (trade paperback, Harper and Row, 1986; trade paperback, University of Nebraska Press, 1996)
- Janovy, J. Jr. 1981. *Back in Keith County*. St. Martin's Press, New York, 179p. (trade paperback Univ Nebr Press, Bison Books, 1984).
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- Janovy, J. Jr. 1978. *Keith County Journal*, St. Martin's Press, New York, 210p (trade paperback, St. Martin's Press, 1979, trade paperback University of Nebraska Press, 1996).
- Janovy, J. Jr. and Amanda Snyder. 2001. *Biodiversity: A primer*. 3rd Ed. McGraw-Hill Custom Publishing, Dubuque, Iowa. 226p.
- Blake, J. 1996. *Comes the Millennium: Hysteria, religious mania, and anti-intellectualism as the millennium approaches*. St. Martin's Press, New York, 183p. (J. Blake is a pseudonym for JJJr.)
- Roberts, L. S., and J. Janovy, Jr. 1996. *Foundations of Parasitology*. 5th edition, Wm C. Brown, Co., Dubuque, Iowa, 659p.
- Roberts, L. S., and J. Janovy, Jr. 2000. *Foundations of Parasitology*. 6th edition. McGraw-Hill, Dubuque, Iowa. 670p.
- Roberts, L. S., and J. Janovy, Jr. 2005. *Foundations of Parasitology*. 7th edition. McGraw-Hill, Dubuque, Iowa. 702p.
- Roberts, L. S., and J. Janovy, Jr. 2009. *Foundations of Parasitology*, 8th Ed. McGraw-Hill, Dubuque, IA. 701p.

Books in Press:

Janovy, J. Jr. 2009. *Pieces of the Plains: Memories and Predictions from the Heart of America*. J&L Lee Publishing Co., Lincoln, NE (page proof returned; December 1 expected publication date).

Book Manuscripts in Preparation (first drafts essentially complete, ready for submission):

Janovy, J. Jr. 2007. *Intelligent Designer: Evolution for Presidents*. (Essays on scientific literacy)

Films (screenplays):

Janovy, J. Jr. 1985. *Keith County Journal*. Nebr ETV, 16mm and video, 58min. (1986 Corp. Publ. Broadcasting, 1st place in local information programming category. 1987 Central Educational Network, 1st place in local programming category. 1986 29th Annual New York Film and TV Festival finalist.)

Invited Essays:

Janovy, J. Jr. 2008. The Greenhouse. In: *A Desert Illuminated: Cactus Flowers of the Sonoran Desert*; photographs by John P. Schaefer. Arizona Desert Museum Press; Tucson, Arizona. pp. 90-93.

Janovy, J. Jr. 2008. Chapters from two book manuscripts: *Bernice and John: Finally meeting your parents who died a long time ago* and *The Ginkgo*. *Isotope: A Journal of Literary Nature and Science Writing*, Issue 6.2:8-13.

Laboratory Manuals:

Janovy, J. Jr. 1983-91 Zoology Lab, Biol Sci 112, Editions 1-3, Kinko's, Lincoln, NE 150p.

Janovy, J. Jr. 1991, 1993 Zoology lab: a laboratory manual for Biological Sciences 112. Burgess International Group, Edina, MN, 165p.

Janovy, J. Jr. 1981-2008 Field Parasitology, Biol Sci 487/488, Editions 1-14, Kinko's, Lincoln, NE 94p., annual editions since, University Bookstore.

Janovy, J. Jr. 1985-90 Invertebrate Zoology, Biol Sci 381, Editions 1-3, Kinko's, 88p.

Janovy, J. Jr. 1996. Biodiversity. University of Nebraska bookstore. (annual editions through 2005).

Software:

Clopton, R. E. and J. Janovy, Jr. 1991. FieldStat 1.0 and MacFieldStat 1.0, Hotel Intestine Software, Lincoln, NE (Menu driven statistical package for parasitology teaching and research). Upgrades and application additions, FieldStat 2.0, 2000.

Popular Magazine Articles:

NEBRASKALand, August, 1976 - Birds of the field - watercolors and text
NEBRASKALand, August, 1978- A bird in the hand - watercolors and text
NEBRASKALand, August, 1979 - an excerpt from Keith County Journal
Omaha *World-Herald*, December, 1984, Magazine of the Midlands long article on social impressions of Nebraska.
NEBRASKALand Magazine, 1985, Introductory chapter in the special issue on birds.
NEBRASKALand, October, 1988, Prairie Images - text to accompany John Spence landscape photographs (excerpt from a book in progress).
NEBRASKALand, March, 1990, The Sketchbook - text to accompany wildlife sketches and paintings by Robert Weaver.

Examples of Recent Invited Presentations:

- Janovy, J. Jr. 2009. Achievement Centered Education: ideas for an evolving nation. Invited “kickoff” presentation to annual faculty teaching workshop, University of Missouri College of Agriculture, Food and Natural Resources, January.
- Janovy, J. Jr. 2008. What we teach, what they learn, and why anyone should care. Invited workshop and presentation on innovation in science teaching. Notre Dame University, November.
- Janovy, J. Jr. 2006. Teaching in Eden: The Cedar Point Lessons. Paul Olson Seminar, UN-L Center for Great Plains Studies, in February.
- Janovy, J. Jr. 2005. Landscape as Metaphor. Invited closing presentation for the National Natural Areas Conference, UN-L Center for Great Plains Studies (Cornhusker Hotel), in September.
- Janovy, J. Jr. 2004. The Most Common Way of Life (or, the world through a parasitologist’s eyes). September, 2004; Arkansas State University, Jonesboro, AK; College of Sciences and Mathematics Dean’s Distinguished Lecture Series (invited talk).
- Janovy, J. Jr. 2004. Host-parasite systems as indicators of environmental conditions. Mexican Society of Parasitologists bi-annual meeting, Tlaxcala, Mexico, October, 2004 (Invited Talk).
- Janovy, J. Jr. 2004. Parasite life cycles: some evolutionary implications. University of Florida College of Veterinary Medicine, Gainesville, FL, November, 2004 (Invited talk).
- Janovy, J. Jr. 2004. Classroom Response System: the BIOS 101 experience. UNL Century Club, November, 2004; Henzlik Hall Auditorium demonstration and analysis of BIOS 101 student performance statistics for the past five years.

Public Service:

The Nature Conservancy, Nebraska Chapter, former member (8 yrs) and former chair (2 yrs) of the state chapter board of trustees.

Nebraska Audubon Society, former board member.
Lincoln/Lancaster County Comprehensive Plan Committee (2000-02).
Lincoln/Lancaster County Floodplain Task Force (2001-2002)
Lincoln Mayor's Environmental Advisory Committee (1999-present)
Numerous speeches to a large variety of organizations.
UNL Speakers Bureau, 1996-1997

Teaching Philosophy and Accomplishments:

My goal as a teacher is to produce students who have transferable skills, understand how ideas and concepts drive intellectual endeavor, can write well, are not afraid of either novelty or controversy, and who can speak comfortably in front of any audience. I believe that at all levels students must *do* the tasks of a professional biologist as an integral part of learning biology and that history, sociology, economic conditions, religion, and the arts all influence the work of scientists whether we admit to such influence or not. Thus students should understand and be able to articulate the way in which these factors affect our profession. Finally, professors have an obligation to engage students in non-intimidating ways as part of the mentoring process. These philosophies are addressed in detail in my books *On Becoming a Biologist* (Harper and Row, 1985; UNL Press, 2004, 2nd Ed.), *Teaching in Eden* (Routledge, 2003), and *Outwitting College Professors* (Pearson, 2008).

My accomplishments in undergraduate education and graduate mentoring include a Distinguished Teaching Award (1970), Burlington Northern Teacher-Scholar Award (1990), and most important, the American Society of Parasitologists Clark P. Read Mentorship Award (2003), the latter a career recognition. I have taught large introductory classes (150-350) virtually every semester since fall, 1966, instituting such practices as extensive writing assignments using campus vegetation and museums as material, weekly student presentations on outside readings, and a large variety of almost idiosyncratic lecture techniques (e.g. using junk food wrapper ingredients lists to teach metabolism), in the process awarding approximately 15,000 grades and reading ~200,000 pages of student writing. I was the first UNL Honors Program Master Lecturer (1985), taught honors seminars for several years on a variety of unusual subjects (e.g. The Evolution of Ideas), was a member of the university's Comprehensive Education Program task force, and was chair of the UNL General Education Planning Team and General Education Advisory Committee developing a new general education program for the university. I was the first Biological Sciences faculty member to use an electronic classroom response system, and served initially as an informal adviser to fellow faculty members who want to use such technology. I also was highly instrumental in establishing the Cedar Point Biological Station as a main component of UNL undergraduate biological sciences education, being director of that program for a total of 12 years and teaching a nationally-unique course in parasite ecology (BioSci 487/887, Field Parasitology) for 33 years.

The work with undergraduate researchers and honors contract students has been an extraordinarily satisfying and remarkably successful enterprise. Undergraduate students have come to my lab, on their own, asking for opportunities to pursue independent study every semester since the fall of 1966. All of my undergraduate researchers present at regional, and many of them at national, meetings. Nine of the most recent twenty undergraduates from my lab have published in peer-reviewed journals. UNL undergraduates have ended up being a major source of my graduate students. Of my 29 MS and PhD advisees, 14 are women, and 13 were undergraduates at UNL who either stayed for the MS or returned for the PhD after receiving an MS at another institution. Of these 13, ten now hold faculty positions, four of them have externally funded research programs, and three are in industry or government. See Janovy CV section above for the names and current positions of these individuals. The University of Nebraska has a large supply of very bright students who are looking for challenge. In summary, my main teaching accomplishment has been the recognition of this fact and the engagement of many such students in a very wide variety of learning activities, always leading to meaningful careers.

Research Accomplishments:

My research program seeks to determine how numbers and distributions of parasites are controlled in nature, with a recent focus on the evolution of life cycles and the consequent movement of parasitic organisms through ecosystems. My students and I have used a variety of eukaryotic parasite-host systems, including trypanosomatid flagellates, helminth species in small fish, and apicomplexan parasites of insects. This research has an underlying evolutionary component because it reveals factors directing the flow of parasite tissue into particular environments, thus establishing avenues for and constraints on evolutionary change.

From 1966-1981, we asked whether certain parasite physiological traits were associated with infection capabilities and infection site within a host. The parasites were trypanosomatid flagellates, especially members of genus *Leishmania*, intracellular human pathogens with zoonotic potential. We showed that species occupying different infection sites also differed metabolically, even to the enzyme level, that certain physiological changes accompanied adaptation to mammalian hosts, that these changes involved production of different exogenous proteins, and that parasite species naturally infective to mammals could alter macrophage function, thus protecting non-infective flagellates from digestion by naïve macrophages (Janovy, 1972; Daggett et al., 1978). By the late 1970s we were zeroing in on the types of communications, between parasite and host cell, that allowed parasite survival within the host's defense system (Bhattacharya and Janovy, 1975; Kutish and Janovy, 1981).

But in the late 1970s UNL did not, and would not for several years, have infrastructure to support continued research on human pathogens such as *Leishmania* species, so we began exploring alternate systems provided by opening of the Cedar Point Biological Station. Long-term studies of parasite community dynamics in *Fundulus zebrinus*, a small fish, in the highly variable transmission milieu (South Platte River) showed that in parasites with complex life cycles, parasite population structures were determined by distant abiotic events (e.g. Rocky Mountain snow pack), whereas in specialist parasite species with direct life cycles, host behavior and ecology were the major determinants. This work demonstrated that factors other than individual host-parasite relationships are of prime importance in evolution of such eukaryotic host-parasite systems and that it is quite impossible to generalize about selective forces acting on them (Janovy, 2002).

Since the early 1990s, we have continued study of parasite populations, communities, and life cycles, always asking: What can comparative studies show us about avenues for and constraints on evolutionary change in nature? Accomplishments include demonstration that larval behavior can be the prime causal factor in establishing host specificity (Snyder and Janovy, 1995), that parasites once thought to be rare are actually exceedingly common and highly motile in both terrestrial and aquatic ecosystems (Hanelt et al., 2001; Hanelt and Janovy, 2003), and that parasite life cycle transitions can be regulated by host diet (Schawang and Janovy, 2001; Schreurs and Janovy, 2008). In summary, our work demonstrates clearly that major evolutionary forces acting on *eukaryotic* host-parasite systems in nature are not necessarily those of paradigmatic factors such as host defense and parasite virulence, but instead are those dictating probabilities of encounter and transition between developmental (life cycle) stages (see Bolek and Janovy, 2007, 2007a).