

C. V.
Marijo Readey
B.Sc., C.A.D.C., Ph.D.
Department of Biology
Northeastern Illinois University
5500 N. St. Louis Avenue, Chicago, Illinois 60624

Educational Background:

Postdoctoral work (1986-1990)

Argonne National Laboratory, Circadian Cybernetics and Bioelectromagnetics Program.

University of Toronto (1977-1986)

Doctor of Philosophy, Zoology, with an anthropology minor

Dissertation area: Chronobiology and protozoology

Focus of minor: Numerical systematics, North American ethnobotany and archaeobotany

Graduated with honors

Northeastern Illinois University (1973-77):

Bachelor of Science, Biology; mathematics minor (high honors)

College of DuPage (1992-1994)

A.A. with psychology and addictions counseling major

Other Relevant Trainings: Various counseling-education training, including HIV Educator Training, non-violent crisis intervention training, and various aspects of clinical evaluation. ABT psychology, Roosevelt University masters-program courses in psychology. Gang literacy training seminars at Interventions.

Formal Art Training:

2012-2013: Misc. training in SLR, Photoshop, and Adobe techniques

2001 Botanical Drawing Morton Arboretum

1990s (scattered) College of DuPage

1980 Toronto Technical School

1979-81 Three Schools of Art, Toronto, Ontario

1979-81 Life Drawing with L.E. Wakeland, Toronto

Educational-Career Related Experiences:

Northeastern Illinois University (1997-Present):

Courses taught: The Changing Natural Environment, Introduction to Biology, Biology of Populations, and Biology of Organisms. Invertebrate Zoology, Animal Behavior, Animal Kingdom (systematics), Parasitology, Evolutionary Biology, and Entomology

Roosevelt University and Prairie State College (1993 to 2003)

Courses Taught: Introductory Biology, Environmental Biology, Chronobiology, Cell Physiology, Anatomy and Physiology I & II, Psychobiology, Biological Psychology, Stress Management, and Statistics for the Social Sciences.

Prior to working in academia, I worked as an AIDS Specialist and Senior Counselor (1993-1996) at Interventions: I provided AIDS education for staff and clients. Helped to collect client data for AIDS Research and Education. Other responsibilities included

DOR Case Management, AIDS case worker, AIDS case manager, Ryan White Case Management; HIV pre- and post-test counselor.

Pre and Postdoctoral Work:

Pre- and Postdoctoral work: Argonne National Laboratory (1981- 1990):

Chronobiological Sequelae of Addiction; Biological Effects of 60-Hz Electromagnetic Fields.

Current Research Interests:

Behavioral evolution, especially the adaptive roots of deceitful and violent behaviors
Application of nonlinear analysis to issues of violence and pacifism
Application of nonlinear models to cell cycles.

Current Writing Projects:

Open-source textbook for NEIU course Biology-104: The Changing Natural Environment.

Publications

Readey, M (2025, October). *Nothing But A Bully: A Tale of Power, Violence, Dehumanization, and of Green-Beards*. Benjamin Ross Lane, 693 pp. (ISBN-13: 978-1955780032, Ptera Hunter, pseudonym). (Ebook released in September 2025)

Qazi, S. & Readey, M. (2021). Fundamental Behavioural, Sociological and Evolutionary Understanding of Covid-19 as a Pandemic: An Introductory Review. *Journal of Environmental Peace*,12(1).

Readey, M., Hansell, R. I. C., (accepted). Dynamic models of cell generation-time genealogies. *Journal of Environmental Peace*. Target date for publication: early 2026 (delayed publication).

Readey, M. (accepted). Rationalizations for War or Peace: A Comparison of Philosophies and Cultural Orientations. *Journal of Environmental Peace*. (Target date for publication: 2026).

Readey, M. (2021). *The Wisdom of Loki*. Benjamin Ross Lane. 256 pp. (Ptera Hunter, pseudonym used).

Readey, M. A. (2018). *A Totally, Unabashedly Incomplete Book About Bugs*. Prairie House Gallery Books. (Children's Book on Entomology, Ptera Hunter, pseudonym)

Readey, M.A., 1991. Chronohygiene and good health. *Positively Aware*. June, 1991: 27-28.

Groh, K. R., Readey, M. A., & Ehret, C. F. (1990). Chronobiological effects of electric fields. In: B.W. Wilson, R. G. Stevens, & L. E. Anderson (eds). *Extremely Low-Frequency Electromagnetic Fields: The Question of Cancer*. Battelle Press 47-86.

Groh, K. R., Readey, M. A., & Ehret, C. F. (1989). Circadian rhythm effects of 60-Hz electric field exposure in rodents. In *Conference Bioelectromagnetics Society, 11th Annual Meeting: Electromagnetic Fields and Circadian Rhythmicity. (Sponsored by US Army Medical Research and Development Command, Fort Detrick, Frederick, MD.*

Groh, K.R., Ehret, C.F., Peraino, C., Meinert, J.C., & Readey, M.A. (1988). Circadian manifestations of barbiturate habitation, addiction, and withdrawal in the rat. *Chronobiology International*. 47-86.

Groh, K.R., Readey, M.A. & Ehret, C.F. (1987). The acrophase of activity is a function of the photocycle in the mouse *Peromyscus leucopus*. *Chronobiologia* 5, (supplement) abstract.

Groh, K. R., Ehret, C. F., & Readey, M. A. (1987). Photoperiodic phase ratios of entrainment influence phase shifts in the circadian acrophase of activity following exposure to 60Hz electric fields in the mouse *Peromyscus*. In *Bioelectromagn. Soc. Conf.*

Readey, M.A., Groh, K.R., & Ehret, C.F. (1987). In search of a phase response curve for lithium chloride. *Chronobiologia* 5 (supplement). Abstract.

Groh, K. R., Ehret, C. F., & Readey, M. A. The actions of high-strength 60-Hz electric fields on circadian rhythms in small rodents. *Contractors Review: Biological Effects from Electric and Magnetic Fields, Air Ions and Ion Currents Associated with High Voltage Transmission Lines*. W/L Associates, Frederick, MD.

Groh, K.R., Ehret, C.F., Readey, M.A., & Fowler, D.J. (1987). Photoperiodic phase ratios of entrainment influence phase shifts in the circadian acrophase of activity following exposure to 60-Hz electric fields in the mouse, *Peromyscus*. *Ninth Annual Meeting of the Bioelectromagnetics Society*, Portland, Oregon, June 1987.

Readey, M.A. (1987). Ultradian photosynchronization in *Tetrahymena pyriformis* GLC is related to modal cell generation time: Further evidence for a common timer model. *Chronobiology International*. 4: 195-208. <https://doi.org/10.3109/07420528709078526>.

Readey, M.A. (1987). A Comparison of Ultradian and Infradian Modes of Growth in the Ciliate Protozoan *Tetrahymena*. Doctoral Dissertation, University of Toronto, Toronto, Ontario, Canada. 281 pp.

Dunham II, E.F., McArdle, E.W., & Readey, M.A. (1986). The effects of medium concentration and metal tolerance in *Tetrahymena furgasoni* W. *Transactions of the Illinois Academy of Science* 79: 225-236.

McArdle, E.W., & Readey, M.A. (1984). "Virgulenes" on the cortical surface of *Tetrahymena* can be identified with alcian blue staining. *Journal of Protozoology* 31: 26A. (abstract).

Groh, K. R., Ehret, C. F., Peraino, C., Readey, M. A. (1983). Circadian manifestations of barbiturate habituation, addiction, and withdrawal in the rat. *Chronobiology International*, 5(2):153-166. <https://doi.org/10.3109/07420528809079556>.

Readey, M.A. & Berger, J. (1983). Daily variation in the tolerance of *Tetrahymena vorax* to HgCl (II). *Journal of Protozoology* 30: 24A (abstract).

Readey, M.A., McArdle, E.W., & Koo, J. (1983). The occurrence of argentophilic bands ("Virgulenes") on the cortical surface of *Tetrahymena*. *Journal of Protozoology*. 30: 266-270. <https://onlinelibrary.wiley.com/doi/abs/10.1111/j.1550-7408.1983.tb02913.x>

Newspaper and Magazine Interviews

Stoker-Lavelle, Libby (2015 July-August). *Insect Hunting In Northern Manitoba*. Cottage North Magazine, CA. pp 8-9. https://issuu.com/cottagenorth/docs/cottage_north_vol_13_iss_2_small

Unknown. (2015, September 22) *NEIU overcrowding issue—Classroom assignment mishap*. *Small classroom, big class*. NEIU Independent.

Sawyers, June. (1989, March 5). *There is hope for jet lag, the bane of the long-distance traveler*. Chicago Tribune.

Professional Meetings Attended, and Presentations Given

July 28, 2021: *Economics and Health Concerns: A Two-Factor Catastrophe Model for Human and Politics: Behaviour During the Covid-19 Pandemic*. Tradepreneur Global Academic Platform, UK. CT University, Ludhiana, India. 5th International Conference on Emerging New World: Valedictory Session. (Invited Speaker).

<https://www.facebook.com/CTUniversityludhiana/videos/967536354041884/>

March 19, 2021: *Behavioural, Sociological and Evolutionary Understanding of Covid-19 as a Pandemic: An Ethological Approach*. Presented at *A Primer on Viruses and Pandemics: No Experience Necessary*. Co-sponsored Noble International University (Toronto) and Mother Theresa University (Skopje) <https://www.youtube.com/watch?v=AgLxUbrCyY0>.

June 20, 2020: *Animal Behaviour, Human Competition, Human Cooperation, and Mixed Hope for Compassion for Our Mother Earth*. Presented at: International E-Conference on *Why Human Interdependence Matters Today to Fight Global Environmental Crises*. Sponsored by the Ministry of Culture, Government of India. <https://www.youtube.com/watch?v=2AKHW8IJef8&t=2032s>
<https://www.gandhismriti.gov.in/programmes/gsds-programmes/conference-why-human-interdependence-matters-today-fight-global>. (Review- not exactly what I said.)

June 15-17, 2020: Attended ABEN's 15th Annual Summer Institute: Pedagogies & Practices for Successfully Reaching African American Students. Hosted by ABEN and Stanford University.

2011-2018; 2021 (April) Attended Midwest Conference on Animal Behavior, Bloomington, Indiana. (No presentation given).

2013, September 29: *Ways of Teaching/Learning/Understanding*: Round Table Discussion for NIU/RAINBOW. Hosted by Dr Isaac Day, Iroquois Nation, Brantford, Ontario.

2013, September 28: *Our Ethology and Our Violence to the Future: Applying the Teachings of Swami Vivekananda to our View of the Environment and Developing a Future-Oriented Goal for Environmental Education*. Swami Vivekananda Man Making and Nation Building 150s International Seminar. In The Ramakrishna Mission Institute of Culture, Golpark, Kolkata (Presentation via video & audio tape).

https://drive.google.com/drive/folders/1YQmcMowIH7G4IZZBvoYl8F_sUcTdk6Jp

2013, September 23: *High-level meeting of the General Assembly on Disability and Development, United Nations Headquarters, New York*. Department of Economic and Social Affairs. (NGO delegate for Noble International University; presented a statement on behalf of people with neuro-behavioral disorders, including Tourette Syndrome.)

<https://www.un.org/en/ga/president/67/pdf/letters/20130709-mdgdisabilities.pdf> .

2011 (March 22): *Arguments for War and Peace: A comparison of eight Western Philosophies*. (Invited speaker). Netaji Institute for Asian Studies, University of Kolkata, Kolkata, Bengal, India.

2011 (24-25 March): *Dynamic Models of Cell Generation-Time Genealogies and their implications for microbial population dynamics*. Presented at: International Colloquium on Global Environmental Protection. Andhra Loyola College, Vijayawada, Andhra Pradesh, India.

2011 (March 26, proxy presentation for Dr. M. Jones): *Susceptibility of Oriental Fruit Moth (Grapholita molesta (Busck) to Selected Insecticides and Mixtures*. Acharya N G Ranga Agricultural University, Rajendranagar, Hyderabad, Andhra Pradesh, India. (Invited proxy speaker). Presented as proxy for NEIU graduate, Dr. M. Jones, University of Florida- Southwest Research and Extension Center, Immokalee, Florida.

2010: Attended Midwest Conference on Animal Behavior, Bloomington, Indiana. (No presentation given.)

2002: Attended the Midwest Pain Management Conference, Chicago, Illinois (no presentation given).

1995: Attended National AIDS Conference, Chicago, Illinois, as representative of the Department of AIDS Research at Interventions. (No presentation given).

1997: *Understanding Death and Dying: An Introduction to Thanatology for Addiction Professionals*. Interventions, Southwood Facility (Garfield Park).

1997: *Working with LGBT Clients: A Training for Heterosexual Counselors*. Interventions, multiple locations.

1996: *Relaxation and Stress Management: Detecting What Works for Different Clients*. Interventions, Woodridge, IL.

1987: *Photosynchronization of Ultradian Rhythms in Protozoan and Mammalian Cultures*. Presented at: Divisional Seminar, City of Hope National Medical Center, Duarte, California.

1987: *Mammalian Cells Exhibit Cell-Cycle Phase-Specific Response to Visible Light*. Divisional Seminar, City of Hope National Medical Center, Duarte, California.

1987: *The Effects of 60-Hz Electric Field on Mice are Circadian Phase and Photoperiod Specific*. Divisional Seminar, City of Hope National Medical Center, Duarte, California.

1987: *In Search of A Phase Response Curve for Lithium Chloride*. Presented at: Meeting of the International Society of Chronobiology. Leiden, Netherlands.
<https://www.osti.gov/biblio/5777524>.

1987: *Preliminary notes on pattern formation in cultures of Tetrahymena grown on nutrient agar*. Presented at: Meeting of the Midwest Protozoological Society, Argonne, Illinois.

1986: *An Introduction to Circadian Rhythms at the Cellular Level*. Presented at: Chicago State University (Guest Seminar Series), Chicago, Illinois.

1985: *Photosynchronization in Ultradian Mode Tetrahymena is Related to Modal Cell Generation Times*. Presented at: Meeting of the International Society of Chronobiology, Little Rock, Arkansas.

1985: *Ultradian Morphological Variation in Tetrahymena*. Presented at: Meeting of the Midwest Protozoological Society. Cincinnati, Ohio.

1983: *Photosynchronization of Ultradian Mode Tetrahymena*. Presented at: Meeting of the Midwest Protozoological Society, Chicago, Illinois.

1981: *The Case of the Vanishing Virgulene*. Presented at: Meeting of the Midwest Protozoological Society. Iowa City, Iowa, and at Northeastern Illinois University, Chicago, Illinois (invited speaker).

Professional Meetings and Events Organized

2021, September 11. *COVID-19 and the Indian Subcontinent II: Beyond India*. Sponsored by Noble International University, Toronto. (Organizer and Moderator) <https://youtu.be/WA6o7Y4h2u0>

2021, July 11. *COVID-19 and the Indian Subcontinents I: India*, Sponsored by Noble International University, Toronto, and Mother Theresa University, India (Skopje). (link TBA)
<https://youtu.be/X4HmyZ3PCjE>

2021 April 30: Moderator and Organizer for “Africa and the Covid-19 Pandemic.” Webinar sponsored by Noble International University, Toronto.
<https://www.youtube.com/watch?v=j9KOWxQyuh8>

2020, June 20. E-conference: *Why Human Interdependence Matters Today to Fight Global Environmental Crises*. (resource person for Gandhi Smriti and Darshan Samiti).
https://www.gandhismriti.gov.in/sites/default/files/Annual%20Report%2020-21%20combined_ENGLISH_compressed.pdf

2016 Loan of “Grandmothers” from Noble International University to Mitchell Museum of the American Indian, Evanston, IL.

2014 Arranged a loan of Swampy Cree Materials for Display at NEIU Library, including artworks by artists represented at the Aboriginal Pavilion of the 2010 Vancouver Olympics.

2013. I arranged a loan of Holman Inuit Materials for Display at the NEIU Library.

2013. I arranged a loan of multiple pieces from Noble International University for a special exhibit of First Nation Art for the Mitchell Museum of the American Indian.

2012. Organized a loan of Antique Books for Display, *Key Publications in Evolution*, at NEIU Library. Loans courtesy of Noble International University.

1994. *World AIDS Day Remembrance and Luncheon at Interventions*: The educational event hosted approximately 200 predominantly African-American substance abusers from across their treatment spectrum. These activities also included fundraising, soliciting donations, publicity, and public relations skills.

1990-1995: Organized and presented numerous trainings on the topics of HIV and AIDS, death and dying (thanatology), cultural sensitivity, and relaxation theory at Interventions and at Stop AIDS Chicago. These events were organized both for clients and for counselors.

1987: Organized the Annual Meeting of the Midwest Protozoological Society at Argonne National Laboratory, Argonne, Illinois. This conference hosted scientists and students from a five-state area surrounding Illinois. I was responsible for the conference logistics, including scheduling, mailings, registration, housing, food, and entertainment for the participants.

Display and Exhibit Development:

At various times in my career, I had primary responsibility for organizing shows and gallery presentations. These include:

February 22, 2025 (Workshop): *Malaria: A Deadly Enemy*. Chicago Student River Congress. (Organized with aid from my students in parasitology.)

February 24, 2024 (Workshop): *Biomimicry: Learning from Nature*. Chicago Student River Congress. (Organized with the aid of my students in invertebrate zoology.)

December 2014 to January 2015: I arranged a show at the NEIU Library of Art of the Swampy Cree, the aboriginal people who inhabit the area near Thompson, MB, where I did my summer entomological research. These pieces were also courtesy of the Noble Institute for Environmental Peace, Toronto, and were displayed in the NEIU library.

2013-2014 academic year:

I facilitated two art and book displays at NEIU

1.) *Seminal Books in the History of Evolutionary Thought* and

2.) *Art of the Holman Inuit: A Reflection of Culture and Environment*, courtesy of Noble Institute for Environmental Peace, Toronto.

3.) I also arranged for the loan of artworks to the Mitchell Museum of the American Indian through NIU Toronto for their show *Another View of American Indian Fine Art*.

I worked with the former curator of the Mitchell Museum of the American Indian in the preparation of one museum show (*The Mitchell Legacy Show*) and in the cataloging of new acquisitions to the Mitchell Museum, including the Cook Collection.

2012-2013 Prepared insect displays and taxonomic collections at Northeastern Illinois University.

Prior events:

Production of events and literature for African-American History Month commemorations at Intervention's Central Intake Department

Production of an individual gallery show at Toronto's Lickin-Chicken Gallery

Second Massey College Art Show, University of Toronto: In addition to obtaining artists for the show, I was also in charge of protocol for our special guest, then Lieutenant Governor Pauline McGibbon, the stand-in for Her Royal Majesty, Queen Elizabeth II of Canada.

Website Development. I am familiar with a range of website development and hosting tools, including Cargo, WordPress, and Sitespinner.

Educational Experience: I have tutored, taught, and developed curricula for adult students in a variety of courses in both biology and psychology. While working as a mathematics tutor at Truman College, I developed mathematical games and skills classes aimed at children from ages 8 to 12. I have also developed counseling workshops and trainings that focus on minority issues with a specific focus on problems encountered by HIV+ addicts and by gay, lesbian, and bisexual clients (LGBTQ clients). To stay in tune with the student experience, I have also taken classes outside my field, such as photography and project management.

Archival and Museum Experience: I have worked as a volunteer with Janice Kline, former director and curator at the Mitchell Museum of the American Indian (Evanston, Illinois), and I am familiar with cataloging and archival systems. I have had hands-on Experience with the collections, archives, lectures, and exhibitions of the MMAI. At an instructional seminar for teachers, I served as a volunteer lecturer on the topic of ethnobotany of the Plains cultures of North America. From approximately 1978 to 1980, I volunteered time at a civil rights archive in Toronto, identifying and cataloging materials on the Canadian gay and lesbian struggle for civil rights.

From 2010 until the present, I have developed a teaching collection of insect families from Illinois, with a concentration on the greater Chicagoland area. During the summer of 2014, I added numerous specimens from northern temperate forests and boreal forests.

I have procured, managed, and cataloged my own personal collection of Canadian and American First Nations artwork, which is in excess of 400 pieces.

Grant Writing: I have written and co-authored grant applications as a graduate student and as a postdoctoral research fellow at Argonne National Lab and social-work grants at Interventions (Behavioral Health Systems). I also worked on grant applications at Interventions.

Conservation Procedures: I am familiar with numerous conservation issues and techniques, including the use of "removable permanent" markings, conservation-grade glass, paper, matting, and temperature-humidity control problems. I am familiar with the preparation and preservation of biological specimens.

Philosophy of Work:

I am primarily an educator. I believe in setting educational goals that are high enough to provide a solid academic experience for the average students while still challenging the gifted students. As a teacher, I offer help to students at all levels of achievement in my classes, and I will work with them to increase their ability to master the materials successfully. I see myself as part of a team, and I am willing to help coworkers achieve their own educational goals. I make use of the ideas and the expertise of other staff members, seeking their input when I approach a topic outside my area of expertise.

Volunteer Work:

Volunteer at Nobel Institute for Environmental Peace, Toronto, 2009-present.

United Nations NGO representative for the Nobel Institute for Environmental Peace (2012-2014)

Mitchell Museum of the American Indian 2006-2008

AIDS Educator: Turtle Mountain Community Middle School, Belcourt, North Dakota. (Nov, 1996)

Volunteer Trainer & Educator, Stop AIDS Chicago, March 1995

Volunteer AIDS Educator, Stop AIDS Chicago, 1994-1997

Art Against AIDS, Weiss Memorial Hospital: 1992, 1993 (donor)

Volunteer Names Project (AIDS Quilt): Chicago and Washington D.C. Displays, 1988

Hobbies and Favorite Recreational Activities:

Writing fiction. Studying and collecting Aboriginal Canadian art, travel, insect collection, identification, and curation, nature photography (macro and micro), acrylic painting, and cooking.

Personal and Professional References are available upon Request.