

CURRICULUM VITAE

Liam Heneghan, Ph.D.
Environmental Science Program
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Research Interests: Urban forest ecology, restoration ecology, invertebrate biodiversity, plant-animal interactions, nutrient cycling, and decomposition.

July 2007

CURRICULUM VITAE

Name: Liam John Heneghan

Education

B.Sc. (Hons, 1st Class) in Zoology.
(Sept 1985), University College Dublin (UCD)

M.Sc. (entomology, Oct 1986), Department of Zoology,
UCD

Certificate in Research Methodology
awarded by Department of Statistics UCD
(1991)

Soil biology Summer Program at International Soil
Biology School, Jyvaskyla, Finland (Aug. 1992)

Ph.D. (Ecology, Sept 1994), Department of Zoology,
UCD

Currently pursuing a **MA** in Philosophy, DePaul
University

Academic Appointments:

July 2006 – present **Professor**, Environmental Science Program,
DePaul University, Chicago.

September 2005 – present **Research Associate**, Chicago Botanic
Garden, Glencoe, Illinois.

July 2001 - 2006 **Associate Professor**; Environmental Science
Program, DePaul University, Chicago.

September 1998- June 2001 **Assistant Professor**, Environmental
Science Program, DePaul University, Chicago.

July 1997 - February 2000 **Principal Investigator** on NSF funded
study entitled “Linking spatial variation in below-ground faunal
assemblages with the structure of herbaceous vegetation”.

October 1996 - August 1998 **Assistant Research Scientist**, Institute of
Ecology, University of Georgia

September 1994 - Oct 1996 **Postdoctoral Associate** on an NSF funded

Project. Institute of Ecology, University of Georgia.

Oct 1989 - Sept 1994 **Research Assistant** on a European Commission funded continental transect of atmospheric pollution impacts on forest processes, Department of Zoology, UCD.

Oct 1992 - May 1993 **Laboratory instructor** in the Royal College of Surgeons, St. Stephen's Green Dublin

Administrative Appointments:

September 2004 – present **Co-Director**, Institute for Nature and Culture, DePaul University.

July 2002 – September 2004 **Director**, of the Public Policy Program at DePaul University.

Publications:

In progress

Heneghan, L. Mulvaney, C and Umek L. A Research Agenda for Chicago Wilderness. Completed book MS

Heneghan, L. Iatropulos, J and Umek, L. Elevated decomposition rates associated with a non-native shrub in Midwestern woodlands – measured using a cotton strip assay. For Natural Areas Journal.

In revision

Heneghan L, Umek, L, Grady K, Jabon, D, Bernau, B., Iatropulos, J., and Workman, M. Ecological research can augment restoration practice in urban areas degraded by invasive species – examples from Chicago Wilderness. Urban Ecosystems.

Completed MS (submitted July 2007)

Heneghan, L et al. Integrating a soil ecological perspective into restoration management. For Restoration Ecology

2007

Umek L, and Heneghan, L. (Editors) Chicago Wilderness Invasive Species Roundtable Discussion: Pragmatic Solutions for Common Problems in the Chicago Wilderness Region.
(<http://gis.depaul.edu/envirsci/LJH/CWInvasivesRoundtableWebpage/CWInvasiveShrubRoundtable.pdf>)

Heneghan, L. The Challenge of Invasives in the Region. In Umek L, and Heneghan, L. (Editors) Chicago Wilderness Invasive Species Roundtable

Discussion: Pragmatic Solutions for Common Problems in the Chicago Wilderness Region.

(<http://gis.depaul.edu/envirsci/LJH/CWInvasivesRoundtableWebpage/CWInvasiveShrubRoundtable.pdf>)

Heneghan, L. Applied Research on *Rhamnus cathartica* (European Buckthorn). In Umek L, and Heneghan, L. (Editors) Chicago Wilderness Invasive Species Roundtable Discussion: Pragmatic Solutions for Common Problems in the Chicago Wilderness Region.

(<http://gis.depaul.edu/envirsci/LJH/CWInvasivesRoundtableWebpage/CWInvasiveShrubRoundtable.pdf>)

2006

Heneghan, L., James Steffen and Kristen Fagen. Interactions of an introduced shrub and introduced earthworms in an Illinois urban woodland: impact on leaf litter decomposition. *Pedobiologia* 50 (6) 543-551.

Heneghan, L. The Development of a Research Program Linking Soil Ecology to Ecological Restoration. *Ecological Restoration* 23(3)

Heneghan, L. Fatemi F, Fagen, K. Grady, K., Umek, L and Workman W. Does European Buckthorn (*Rhamnus cathartica*, L), an invasive shrub in the Midwest, impact soil properties on a landscape scale? *Applied Soil Ecology* 32: 142-144.

Callahan, Jr. M.A., Gonzalez G., Hale C.M. , Heneghan L., Lachnicht S.L., and Zou X. Policy and management responses to earthworm invasions. *Biological Invasions*. 8 (6): 1317-1329

Frelich. L, Hale, C. Scheu, S., Holdsworth, A., Heneghan, L., Bohlen, P., and Reich, P. B. Earthworm invasion into previously earthworm-free temperate forests. *Biological Invasions* 8 (6): 1235-1245.

Migge, S., McLean M.A., Maerz, J.C, Heneghan, L. The influence of invasive earthworms on indigenous fauna in ecosystems previously uninhabited by earthworms. *Biological Invasions* 8 (6): 1275-1285.

2005

Heneghan, L. Impact of *Rhamnus cathartica* (European Buckthorn) on Midwestern woodland ecosystems and the implications for restoration management. In Skinner, Luke (Ed) Proceedings: Symposium on the biology, Ecology, and Management of Garlic Mustard (*Alliaria petiolata*) and European Buckthorn (*Rhamnus cathartica*). USDA Forest Service Publications FHTET-2005-09.

2004

Heneghan, L., Carlton Rauschenberg, Farrah Fatemi, and Margaret Workman. The impact of an Invasive Shrub (*Rhamnus cathartica* L.) on some

Ecosystem Properties in urban woodland in Chicago, Illinois. *Ecological Restoration*. 22(4) 275-280.

2003

Heneghan, L., Salmore, A. and D.A. Crossley Jr. Recovery of decomposition and soil microarthropod communities in an Appalachian watershed two decades after a clearcut. *Forest Ecology and Management*.

Heneghan, L. And when they got together: the Impact if Eurasian Earthworms and invasive shrubs on Chicago Woodland Ecosystem, in *Chicago Wilderness Journal: best practices in conservation and restoration*. (Reviewer by an editorial team, this contribution was invited for the inaugural issues of the journal)

2002

Heneghan, L., Clay, C. and Brundage C. Rapid Decomposition of buckthorn litter may change soil nutrient levels. *Ecological Restoration*, 20(2) 108-111.

2001

Heneghan L. "Soil and Myself." In "Irish Spirit". Editor Patricia Monaghan, Wolfhound Press, Dublin.

2000

Bolger, T., Heneghan, L.J. and Neville, P. (2000) Invertebrates and nutrient cycling in coniferous forest ecosystems - spatial heterogeneity and conditionality. In *Invertebrates as Webmasters* ed. Coleman, D.C. and Hendrix, P.F. pp255-269.

1999

Heneghan, L., Coleman, D.C., Zou, X., Crossley, D.A. Jr., and Haines, B.L. Soil microarthropod contributions to decomposition dynamics: tropical-temperate comparisons of a single substrate. *Ecology* 80:1873-1882.

Heneghan, L., Coleman, D.C., Zou, X., and Crossley, D.A. Jr Nitrogen dynamics in decomposing chestnut oak (*Quercus prinus*) in mesic temperate and tropical forest. *Applied Soil Ecology* 13: 169-175

1998

Heneghan, L. Soil Ecology. (Book reviews) *Ecology* 79: 351-352.

Heneghan, L., Coleman, D.C., Zou, X., Crossley, D.A. Jr., and Haines, B.L. Soil microarthropod community structure and litter decomposition dynamics: an study of tropical and temperate sites. *Applied Soil Ecology* 9: 33-38.

Heneghan, L. and Bolger, T. Soil microarthropod contribution to forest ecosystem processes: the importance of observational scale. *Plant and Soil* 205: 113-124.

Heneghan, L. Petroleum Bioventing (Book Review) *Quarterly Review of Biology* 74:77.

Coleman, D.C., Heneghan, L. And Crossley, D.A. Jr. Biodiversity and decomposition in tropical and temperate forests. Symposium No.11, 16th World Congress of Soil Science, Montpellier, France. Volume 1, p204.

1996

Heneghan, L. and Bolger, T. Effects of components of "acid rain" on soil microarthropod communities: a field manipulation. *Pedobiologia* 40, 413-438.

Heneghan, L. and Bolger, T. Effect of components of "acid rain" on the contribution of soil microarthropods to ecosystem function. *Journal of Applied Ecology* 33 (6) 1329-1344.

Heneghan, L. and Bolger, T. Are soil microarthropod communities functionally redundant? In *Acarology IX Vol 1* Mitchell, R., Horn, D.J., Needham, G.R. & Welbourn, W.C (Eds) 561-563.

Bolger T, Heneghan, L. and McCarthy, F. Impacts of anthropogenic atmospheric pollution on forest soil processes. In *Disturbance and recovery in ecological systems* Giller, P.S. & Myers, A. (Eds) pp 125-133.

1995

Coll, M., Heneghan, L. and Bolger, T. Carabidae fauna in two Irish coniferous stands: a comparison with those of other European forests. *Biology and Environment - Proceedings of the Royal Irish Academy* 95(B): 171-177.

1993

Heneghan, L. and Bolger, T. The effects of nitrogenous and sulphuric compounds applied as simulated rainfall on microarthropod community structure in a coniferous woodland (CORE project). In Raubuch M (Ed) Regulation of organic matter and nutrient turnover in the soil compartment of European forests (Phase II). Ecosystem research report 3. CEC Directorate General for Science, Research and Development, Brussels.

1992

Heneghan, L. and Bolger, T. CORE project: Studies of the role of soil invertebrates in nutrient mobilisation in soil columns. In *Responses of forest ecosystems to environmental changes*. Teller A, P. Mathy and J.N.R. Jeffers (Eds.) Elsevier Science Publishers Ltd, London, pp711-713.

1987

Heneghan, L. and Murray, D.A Additions to the inventory of Irish Chironomidae (Diptera). *Irish Naturalists Journal* Vol. 22(5): 196-199.

Other Publications and Creative Work

Heneghan (2007) Nietzsche's Wild A/Eye: Sketches towards a genealogy of wilderness and the wild. Unpublished MS.

Heneghan L (2006) The Intentional Forest. Rhino 2006
(Nominated by Rhino for a 2007 Illinois Arts Council Literary Award)

Heneghan, L. (2006) "The Ecology of Home". Grass Roots Issue 59 (cover article)

Heneghan, L. (2005) Abandonment, Nostalgia, and the Technology of Human Landscapes (Other Voices), DePaul Magazine, Winter 2004.

Heneghan, L. (2005) The Flowering Heart (poem). Nature in Legend and Story Newsletter, Winter 2005.

Heneghan, L. (2004) Invasion and the masts of Macha. Incorporated into installation piece: "Monument: bodies on foreign soil" by Dolores Wilber and Julie Laffin. Chicago Cultural Center November 2004

Heneghan, L. (2004) "The ecology of home", read as part of exhibition entitled "Turning Home" in Track House gallery, Oak Park, April 2004. (This piece was also featured as part of PAC/edge performance festival, March 2004, to accompany installation piece by Dolores Wilber and Francis Whitehead).

Heneghan, L., Green, D., and Vanderkloot, J (2004) Benefits of Natural Landscaping (book prospectus submitted to Island press).

Bandhauer K., Green, D., Heneghan, L. Umek, L and Vanderkloot, J. (2004) a research agenda for native landscaping. (Author order alphabetical).

Barg S. and L. Heneghan 2000 Citizens scientists and the DePaul Ecosystem Project, Newsletter article.

Heneghan, L. and J. Steffen 2001. A pictorial guide to woodland mites. CD release. (Fall 2001)

Co-author of White Paper on Policy Approaches in Illinois to invasive species presented to Invasive Species conference Normal Illinois (2003).

Reports

Heneghan, L. (1994) Studies on soil microarthropod communities, experimentally manipulated by chronic low-level nutrient input, and their impact upon some ecological processes. Ph.D. dissertation. National University of Ireland. 312pp.

- Heneghan, L. (1991) Study on the debility of planted marram grass (*Ammophila arenaria* (L.) Link) stands at Rosslare strand in relation to herbivory of *Philopodon plagiatus* Schol., a common dune weevil. Engineering division of the Department of the Marine, Ireland. 30pp.
- Heneghan, L. (1990) Zoological report on proposed landfill site, Ballydonagh, Fardrum, Co. Westmeath. Westmeath County Council, Environmental Impact Assessment. 14pp.
- Heneghan, L. (1988) The biogeography of Chironomide (Diptera) from Irish National Parks: An analysis of pattern. Irish Wildlife Service. 98pp.
- Heneghan, L. (1986) The Chironomidae (Diptera) of Glenveagh National Park: An annotated inventory. M.Sc. thesis (National University of Ireland). 147pp.
- Heneghan, L. (1985) Studies on the taxonomy and systematics of the *Thienemannimyia* Reihe (Diptera, Chironomidae) B.Sc. thesis (National University of Ireland). 110pp.

Seminars and Conference Presentations

Conference Presentations

- 1st European Symposium on Terrestrial Ecosystems: Forests and Woodlands 20-24th May 1991, Florence, Italy (presented poster on nutrient leaching from soil mesocosms).
- XI Colloquium on Soil Zoology, Jyvaskyla, Finland, August 1992. Presented paper to student audience on soil animal community responses to artificial nutrient enrichment and acidification.
- 3rd Irish Environmental Researcher's Meeting, Belfast, Northern Ireland, 5-7th Jan 1993. (Delivered paper: Responses of microarthropods to applications of sulphur and nitrogen compounds)
- "Effects of Sulphur dioxide and ozone on coniferous forest soil - Liphook Forest Fumigation Project" - Clare College, Cambridge, UK, 29-31 March 1993. Poster communicated by Dr. T. Bolger: Soil community responses to applications of sulphur and nitrogen compounds.
- 4th Irish Environmental Researcher's Meeting, Galway, Ireland, Jan 1994. (Delivered paper: Modified microarthropod communities affect some processes in forest soil).
- XI International Congress of Acarology, Columbus, Ohio, July 1994. "Are soil microarthropods functionally redundant?" Orally presented by Dr. T. Bolger.

VI International Congress of Ecology, Manchester, UK, 20-26th August 1994.
Oral presentation: "Effects of modified communities on ecosystem processes."

Soil Ecology Society National Conference, Fort Collins Colorado, March 1995.
Presented poster: "Microarthropods as victims of environmental changes and as participants in ecosystem processes".

XII International Colloquium on Soil Zoology, Dublin, Ireland July 1996.
Oral Paper: Soil microarthropod community structure and litter decomposition rates: an across-site comparison of tropical and temperate sites.
Poster: An enigma re-examined: ecosystem dynamics and the structure of microarthropod assemblages.

Soil Ecology Society Meeting, Manhattan, KS May 1997. Poster: Site specific faunal contributions to decomposition dynamics: tropical and temperate comparisons of a single substrate (*Quercus prinus* L.).

Ecological Society of America Annual Meeting, Albuquerque, NM August 1997.
Oral presentation: Site-specific faunal effects on decomposition: tropical and temperate comparisons.

XIII International Soil Zoology Colloquium, Ceské Budejovice, Czech Republic, August 2000.
Oral Presentation: Soil fauna and decomposition rates in a southern Appalachian hardwood forest two decades after a clear-cut. Liam Heneghan, Alissa Salmore, D.A. Crossley Jr.
Poster Presentation: Initial observations on the faunal populations and decomposition rates of native and exotic leaf litter in an urban forest fragment. Liam Heneghan, Constance Clay, and Cynthia Brundage

Natura Megapolis: Praga 2000. Prague, Czech Republic, August 2000. Oral Presentation: The ecology and politics of a weed - European Buckthorn in Chicago Liam Heneghan, Constance Clay, and Cynthia Brundage.

Poster Presentation, Woodlands Conference Chicago Botanic gardens, Jan 2002: Abundance, Richness and Diversity of Soil Microarthropods in Three Remnant Oak Communities in Northeastern Illinois JAMES STEFFEN, LIAM HENEGHAN, JENNIFER PALASIK, and LAURA RUBIN.

Paper presented at Ecological Society of America Annual Meeting: Tucson, Arizona, August 2002, Impacts of an invasive shrub, *Rhamnus cathartica* L, on some ecosystem properties of urban woodlands in Chicago Illinois.

Paper at British Ecological Society Annual Meeting, Dec 2002. Biological Invasions: Risk / impact assessments and risk management.

RAUSCHENBERG, C., FATEMI, F., BERNAU, B. & WORKMAN, M.
Impact of an invasive shrub (*Rhamnus cathartica* L.) on ecosystem
structure and function of urban woodlands in Chicago, Illinois, USA.

Soil Ecology Society, May 2003 Impact of an invasive shrub (*Rhamnus cathartica* L.)
on soil foodwebs and ecosystem structure and function of urban woodlands
in Chicago, Illinois, USA.

'Overview' and 'Biodiversity' (with MC Hunter) sections of conference:
Landscaping with Native Plants: Exploring the Environmental, Social, and
Economic Benefits, DePaul University, 6-7th December 2004.

Seminars/workshops presented

Seminar, Institute of Ecology, University of Georgia, May 1995: St Patrick's
Legacy: An Irish Biodiversity Pilgrimage.

Seminar, Institute of Ecology, University of Georgia, November 1996: Casting
long shadows: the role of cryptozoa in the functioning of tropical and
temperate ecosystems.

Seminar, La Selva Biological Field Station, Costa Rica, March 1997: Soil
microarthropods and leaf litter decomposition: a tropical temperate
contrast.

Invited Talk: Role of microbiota in tropical ecosystems. Hawaiian Ecosystem
Ecology Meeting. Volcano, Hawaii, July 1998.

Invited seminar: University of Illinois, Chicago. Darkness Visible: the role of soil
fauna in temperate and tropical forest soil nutrient dynamics. November
1998.

Invited talk: Decomposition of three substrates in a Southern Appalachian
hardwood forest 20 years after a clear cut. Forest Service Meeting Unicoi,
Georgia. February 1999. Included planning session for a forthcoming
book on ecosystem studies in the Southern Appalachians

Invited talk: The role of soil fauna in tropical decomposition. Hawaiian
Ecosystem Ecology Meeting. Volcano, Hawaii, July 1999.

Invited presentation: Life at the fringes. Astronomy Symposium, NASA Space
Science Center for Education and Outreach, DePaul University, September
1999.

Faculty Seminar DePaul University "The Earth Dreaming: soil biota and the
structure of vegetation" February 2000.

- Invited Seminar: December 2000. American and Canadian Entomological Societies Meeting, Special Symposium, Montreal, Canada: "The Creative Mosaic- microarthropods as contributors to plant assemblage structure".
- Invited Seminar, Department of Biological Science, October 2001. Restoring Paradise: the role of ecosystem management in rehabilitating the Chicago Wilderness.
- Invited Seminar, Zoology Department, University College Dublin. Nov 2001. Ecosystem management in an urban setting – examples from the Chicago Wilderness.
- Invited Seminar, Morton Arboretum, Feb 2002. The role of ecosystem management in rehabilitating the Chicago Wilderness.
- Invited Seminar, Benedictine University, (ACCA Fall 2002 Biology Seminar series) October 2002. Losing ground: woody invasives, polluted soil, and the potential failure of restoration.
- Invited Address, Invasive Plants Conference, Chicago, October 2002. Changes due to invasion: progress towards understanding the ecosystem impact of invasions. (Part of the plenary session for this National Conference).
- Invited Address, Illinois Association of Environmental Professionals, November 2002. Invasive Species: things are better and worse than you might think. Chicago, Illinois.
- Invited Presentation: June 2003 National Invasive Species Council – Chicago site visit. Invasive plants in Chicago woodlands.
- Invited Presentation: September 2003. Restoration roundtable – Hickory Creek, buckthorn and in the Chicago Forest Preserves, and the implication for native shrub management
- Invited Seminar: Invaders of paradise: how alien species are determining the future of Chicago's wildlands. Perdue University, Calumet. February 2004.
- Invited Paper: Impact of Invasive Species on Chicago Woodland Systems: Implications for Conservation Management", "Chicago Conference on the Environment", April 2004
- Invited Presentation: DePaul University's Urban Forestry Program. USDA Forest Service, Midwest Center Technology Transfer Committee Meeting, June 2004.
- Invited Teaching: participated in MPS course taught by Dr Sara Gooding-Williams in Dublin, Ireland, July 2004

Invited Symposium Paper: Do soils modified by invasive species necessitate new ecological management responses? (with Lauren Umek). Presented at Ecological Society of America conference Portland, August 2004.

Invited Seminar: Managing the wilderness - ecology and the conservation of Chicago's biological heritage. LA&S faculty research series. October 2004.

2005 Chicago Wilderness Research Agenda: presented research agenda workshops at DePaul University, University of Illinois, Chicago; Morton Arboretum, Chicago, CW Resource Management team meeting, CW Volunteers meeting

Invited Panelist: "Home is a verb" Association for Study of Environmental literature, biannual meeting, Eugene, Oregon, June 2005.

Invited talk: "Restoring degraded ecological systems in metropolitan landscapes" Grants Recognition Luncheon, DePaul University march 8th 2006

Invited Seminar. "Worlds Apart: why urban ecological restoration fails and what we can do about it" Public Lecture Co-sponsored by Northwestern University's Interdisciplinary Committee on Evolutionary Processes and Graduate Program in Plant Biology and Conservation, May 4, 2006.

Keynote Symposium Paper. "Ecological Research can Augment Restoration Practice in Urban Areas Degraded by Invasive Species: Examples from Chicago Wilderness" Soil and Water Conservation Society International Conference July 24, 2006. Resource Conservation and Management in the Urban Environment: Science the Practitioner Can Use

Invited Symposium Paper: Heneghan, Liam, Bohlen, Patrick. Restoration in the face of invasion: the implications of biological invasion of the soil for successful conservation management. Ecological Society of America, Memphis, August 2006.

Invited Talk: Heneghan Liam and Umek, Lauren. Restoration and Invasion: buckthorn in Chicago. Janet Meakin Poor Research Symposium Urban Ecology: Celebrating Ten Years of Chicago Wilderness

Invited Symposium Paper: Heneghan, Liam, Umek, Lauren, Restoration in the face of invasion. Midwest Invasive Plant Network (MIPN) meeting, Milwaukee, Wisconsin Dec 13 2006.

Significant Service:

Environmental Science Program:

- Designed new BA degree program in Environmental Studies.

- Co-Director for the Institute for Nature and Culture (2004 – present)
- Acting as the Program’s representative to Chicago Wilderness 1999-present.

Public Policy:

- Director of Program (2002-2004).
- Head of search committee for new director (2003-4).
- Served on tenure and promotion committee (2002-03).
- Lead Academic Review Process, from design to writing final report (2002-2003).

College

- College Personnel Committee (2007 – present)
- Elected and re-elected to Faculty Governance Council (Dec 2004 - present) (nominated for FGC chair).
- Dean’s Search Committee 2006
- Collaborated to create DePaul University Institute for Nature and Culture (serving as co-director with Dr William Jordan) (2004).
- LA&S NCA report writing committee (Summer 2005-2006 academic year).
- Member of LAS Advisory Council (2002-2004).
- Served on Ad-hoc committee to propose an Irish Studies minor (2004-05), now a faculty member in the minor.
- Member of the LA&S Teaching Committee, (2002-2005).
- Research committee for LA&S summer grants (2002-2005).

University

- IACUC committee (2003-2007).

Recognitions and Professional Activities:

Conferences Organized:

“Soils and Restoration Ecology” 18-20 Dec 2006; co organized with Dr Mac Callahan of the USDA Forest Service. Approximate 150 in attendance at this National Conference.

Co-organizer of conference at DePaul University: Landscaping with Native Plants: Exploring the Environmental, Social, and Economic Benefits, December 6-7 2004 (organized with EPA; approximately 200 attended).

Invasive Species INVASIVE SPECIES ROUNDTABLE: WOODLANDS Pragmatic Solutions for Common Problems in the Chicago Wilderness Region. (13 February 2003).

Awards and recognition

“Media Star” Award from DePaul Media Relations Department, 2006.

LA&S Humanities Fellow 2004-05.

DePaul University Excellence in Teaching Award (2003) (Nominated also in 2005).

Member of Chicago Wilderness (see www.chiwilderness.org) Science Committee. Currently co-chair of the Science Team, and a member of the Co-ordinating Group. 2002-present.

Member of Organizing Committee for Soil Ecology Society Biannual Meeting (2005).

Head of invasive species task force for Chicago Wilderness. (2001-present).

Member of the Illinois Invasive Plant Species Board (2004- 2005).

Member of review committee for Chicago Wilderness (determine distribution of funding for CW projects and for recommending projects to State of Illinois C2000 project). 2001 - present).

Research featured on Chicago Public Radio, and written about in local and national newspapers including feature in Washington Post.

ENV322 Ecosystem Ecology was nominated as a model course for SENCER (Science education for new civic engagements and responsibilities) a NSF sponsored initiative of the Association of American Colleges and Universities (<http://www.aacu-edu.org/sencer/>). (2000).

Advised Plants of Concern (project on endangered Illinois plants hosted by the Chicago Botanic Gardens) March 2002.

Nominated to attend 2nd International Summer School - Environmental Biology and Chemistry in Jyväskylä, Finland. (1992).

Awarded College Prize for achievement in honours degree examinations (1st place in biology honours school). (1985).

Awarded Lord Edward Fitzgerald Memorial Prize (National University of Ireland) on the basis of submitted proposal on Irish biodiversity studies. (1985).

Editorial Service

Reviewed manuscripts for the following:

American Midland Naturalist, Applied Soil Ecology, Plant and Soil, Biotropica, Book chapters in area of expertise, Ecology, Oecologia, Oikos, Ecography, Pedobiology.

Other Professional Activities:

Grant writing and development

Won contracts from Irish Wildlife Service to perform National Park biotic surveys on 3 occasions (total value \$8,000).

Co-developer of NSF funded project: Biodiversity and decomposition in mesic forests: an across-site experimental study of patterns and processes (with D.C. Coleman, D.A. Crossley Jr., X. Zou and B.L. Haines). Value: \$200,000.

P.I. on proposal to NSF (awarded). Linking variation of below-ground faunal assemblages with the structure of herbaceous vegetation (with D.C. Coleman). Value: \$90,000 Sept 1997 - February 1999. Award period extended and grant transferred to DePaul University July 1999.

DePaul University College of Liberal Arts and Sciences Grants for Faculty Research and Development (2000). Below-ground faunal assemblages and the structure of prairie vegetation.

Chicago Wilderness Grant. 2000 A baseline survey of soil microarthropods for Mary Mix McDonald Woods. Co-PI with James Steffen in Chicago Botanic Gardens. \$12,000.

DePaul University College of Liberal Arts and Sciences Grants for Faculty Research and Development (2002). Ecosystem impacts of European Buckthorn, an invasive species, on Chicago's urban forest (and its influence of restoration success).

DePaul University: University Research Council 2002, Ecosystem Impacts of Invasive Species.

Chicago Wilderness 2002, Ecosystem Impacts of Invasive Species. \$14,000.

2002-2007 Gutsell Family Foundation award made to the Environmental Science Program but with Heneghan specified as manager. Approx \$100,000 (over 5 years).

2004 – present Gutsell Family Foundation grant to Institute for Nature and Culture, 16,600 (over two years).

2004 Chicago Wilderness: The Impacts of Eurasian Earthworm and Invasive Shrubs on Chicago Woodland Ecosystems: Surveying Distribution and Evaluating Potential Ecosystem Damage, \$12,517.

USDA Forest Service – Management Guideline for invasive species of woodland (a proceedings for the Invasive Species Taskforce meeting of Feb 2003, \$7,000).

Chicago Wilderness, 2004-05. Developing a science research agenda for Chicago Wilderness, \$26,125.

Chicago Wilderness, 2006. Building upon the Natural Science Research Agenda – a model for initiating priority projects. \$25,000.

NRI 2006 Co-PI with James Montgomery Dynamics of Carbon and Nitrogen in Soils Along A Gradient of Human Impact: Our Need for a Total Carbon-Nitrogen Autoanalyzer. \$40,000

Chicago Wilderness 2007 A Research Program for Chicago Wilderness. \$14,000. Awarded

Donnelley Foundation 2007: A Research Program for Chicago Wilderness. \$50,000 Awarded

DePaul University College of Liberal Arts and Sciences Grants for Faculty Research and Development (2007). An Intentional Forest. Awarded. \$4500.

Membership in Professional Organization

Ecological Society of America

Current Research

Principal Projects:

Invasive species impact on ecosystem properties in Chicago's Urban Forests. Much of this research is on invasive shrubs that are very prevalent in woodlands in Chicago. A project has recently been initiated on invasive earthworm impact on these systems.

Community and Ecosystem ecology of Shaw prairie, Lake Forest A collaborative service-learning course with Lake Forest Open Lands Association. This project was designed to serve as a basis for a course as well as a longer-term project that will involve undergraduate students. Many of the projects are featured in the section below:

Diversity and demography of trees along an urban/suburban transect (this survey serves as both a research project, involving undergraduate students, and as the core of an Urban Forestry class study).

Developing the scientific component of an urban biodiversity conservation project. This project is aimed at identifying the research priorities for Chicago Wilderness, a conservation consortium. CW is widely regarded as the premier urban conservation coalition in the US. This project attempts to integrate an agenda of original research into the coalition's work.

Undergraduate student research at DePaul University supervised by Heneghan:

1998-2001

Bob Monahan: Invertebrate diversity along a gradient of disturbance in a remnant tallgrass prairie

Cynthia Brundage and Constance Clay: Decomposition of alien and native plant species in a urban forest fragment, Lake Forest, Illinois

Carlton Rauschenberg: A nutrient budget for a remnant tallgrass prairie in Lake Forest, Illinois

Molly Martlin: "Bringing the prairie indoors - soil biodiversity and ecosystem function of a prairie remnant"

Angie Opiola: "Bringing the prairie indoors - a contrast of prairie mesocosms with and without microarthropods.

Jenny Palasik: "A digital face-book of microarthropods from Mary Mix McDonald Woods, Glenview, Illinois"

2001- 2004

Karis Macfarlane: baseline observations on decomposition in an Illinois woodland.

Kevin Grady: 1. Insect communities along a gradient of productivity in an Illinois Tallgrass prairie, 2. Have invasives shrubs in Chicago evaded predators?

Farrah Fatemi: European Buckthorn Impacts of soil nutrient status.

Brad Bernau: Is European Buckthorn an ecological trap?

Lauren Umek: growth characteristics of native and invasive shrubs – a greenhouse experiment.

Kristen Fagen: European earthworm impact on soil fertility and restoration potential of public lands

Nicholas Galzin, Developing a digital herbarium for Shaw Prairie, Illinois.

Jamie Smith (with Dr N Clum) – litter decomposition in the tropics.

Katie Engel (with Dr N Clum) – invertebrates in tropical soils.

2005 – Present

Jamie Iatropulos – Elevated decomposition rates associated with a non-native shrub in Midwestern woodlands – measured using a cotton strip assay

Melissa Bernhardt – Impact of invasive earthworms on nutrient mobilization in experimental mesocosms.

Evan Barker – Manipulating DOM inputs in buckthorn invaded patches – a novel control technique.