

JOHN DIGHTON

**Rutgers University Pinelands Field Station, PO Box 206, New Lisbon, NJ 08064
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Professional Preparation:

1973-76 Ph.D. Queen Elizabeth College, University of London

1972-73 M.Sc. Ecology, University of Durham

1969-72 B.Sc. General (External London) 2(i), North East London Polytechnic

Appointments:

Full Time

1994 - Director, Division of Pinelands Research, Professor, Department of Ecology, Evolution and Natural Resources (previously: Institute of Marine & Coastal Sciences (Cook) and Department of Biology (Camden), Rutgers University.

1980 - 1993 Research Scientist, Institute of Terrestrial Ecology, Merlewood Research Station

1977 - 1979 Teacher of Biology, St. Olave's Grammar School, Orpington Kent, UK.

1998 - Honorary Lecturer, University of Puerto Rico at Mayaguez, Biology

1987 - 1994 Honorary Lecturer, University of Lancaster

1985 - 1994 Honorary Lecturer, University of Leeds.

Awards: Rutgers University New Brunswick Graduate Teaching Award, 2005.

Synergistic Activities:

Committees:

2012-13 President Soil Ecology Society

2007 – 13 Soil Ecology Society Board member

2011 - Editorial Board Fungal Ecology

2003- Editorial Board of Bartonina

2003 USDA grant review panel: Microbial Plant interaction

2001- Steering committee Field Station database management education: NSF funded project led by Dr. Bill Michener

2000- Pinelands Preservation Alliance Board of Trustees

2000 NSF grant review panel: Biocomplexity

2000 - Pinelands Commission Research Advisory Committee

1999 Board of Trustees, Executive Board and Research Committee: Center for Aquatic Sciences at Adventure Aquarium

1998 USDA grant review panel: Soils and Soil Biology

1997 - 2015 Editorial Board Soil Biology and Biochemistry

1992 - Editorial Board Mycological Research, now Fungal Biology

1995 - NJ Department of Fish, Game & Wildlife Endangered and Non-Game Species Program: Critical Areas Committee.

1995 - Environmental Research Partnership of New Jersey (DEP): committee

1995 - Pinelands Long-Term Environmental Monitoring Program: Tech. Advisory Cttee

1995 NSF grant review panel: Conservation and Restoration Ecology

Peer Review: Research grants for NERC, NSF, USDA, Israel Department of Science, CERC. ***Journals:*** New Phytol., Mycol. Res., Mycologia, Mycorrhiza, J. Appl. Ecol., Can. J. For. Res., Scan. J. For. Res., Environ. Pol., Soil Biol. Biochem., Plant & Soil, Appl. Spectr., Castanea, Austr. J. Bot., For. Ecol. Mange., Applied Soil Ecol., Fungal Ecology,

In Service Responsibilities:

Cook College/NJAES Rutgers/University of Puerto Rico Coordinating Committee 1997-

IMCS Outstanding Graduate Senior Award selection committee - March 1997

2003 – Fall Promotion committee Joe Martin Biology Camden to Full Professor

Fall Promotion Committee Jean-Marie Hartman Cook to Professor 1

Fall External Reviewer Appointment Jose-Louis Marchardo (Swarthmore)

2003 – Camden Faculty Senate Committee

2003-4 Nominating Committee for Director of Ecology & Evolution Graduate Program (chair).

Aug 2004 Review plans for University of Indiana, Bloomington NSF plan for establishment of a field station.

2004 Reviewed book draft of Coleman et al. Soil Ecology text.

2005 Review promotion package of Dr. Ari Jumpponen

2005 Review promotion package of Dr. Erik Lilleskov

2006: Reviewed promotion package of Dr. Derek Mitchell (University College Dublin, Ireland for promotion to Associate Professor.

August 24 2007: member of three member international evaluation team to select candidate for SSI Research Position in Radioecology. Swedish Radiation Protection Authority, Stockholm. With Gabriele Voigt (IAEA, Siebersdorf) and Henri Métivier, Paris.

May 21 2008 External Examiner Ardhini Rin Maharning Dalhousie University Halifax Nova Scotia (Sina Adl)

Oct 2012 Review project proposal Fundacio para a Ciencia e a Tecnologia, Portugal

Sept 2013 Rutgers Strategic Development Committee

Spring 2014 Chair appointments committee to recruit two ecologist to positions at RU Camden Biology Department

Spring 2008 Camden FASP Committee Biology

2015 - Department of Biology, Camden curriculum committee

2012 - Rutgers Research Council

2009- 2011 University Senate

1999- 2001 Center for Urban Restoration Ecology (CURE) steering committee, Rutgers.

1997- 1998 Rutgers Biodiversity steering committee

1996 - 2003 Ecology & Evolution Graduate School, Rutgers, executive committee

1996 - 2003 Ecology & Evolution Grad. School, Rutgers, admissions committee (Chair 1999 - 2003)

Service:

Department of the Environment (UK) OECD Soils Shadow Group: Committee Member

SERAS (Soil Ecotoxicology Risk Assessment): Committee Member

October 2 1998 Invited opponent to PhD Thesis by Lena Jonsson “Community Ecology of Ectomycorrhizal Fungi in Swedish Boreal Forests”. Swedish University of Agricultural Sciences, Uppsala.

May 4-5 1999 Grand Awards Judge Intel International Science & Engineering Fair, Philadelphia.

May 21 - 22 1999 Invited examiner for Honors Thesis Department of Biology, Swarthmore College.

July 28-29, 1999 External Peer Review for EPA Corvallis proposal ‘ Extrapolating anthropogenic stress effects: individual to forest, ecosystems, and regions (INFER).’ W George Taylor, Mary Arthur and John Norman.

September 1999 Invited external examiner to Ph. D. thesis “Mycorrhizal induced salt tolerance in *Helianthus annuus* L. var. suncross” Jahan Zeb Naz: University of the Punjab, Lahore, Pakistan.

April – Aug 2007 Invited on international committee to evaluate candidates for a position of radioecologist for the Swedish Radiation Protection Authority

Jan 2008 – Dec 2015 Soil Ecology Society board

Jan 2009 – Dec 2010 President elect Soil Ecology Society

Jan 2012 – Dec 2013 President Soil Ecology Society

May 2012 Evaluation of Prof. Krista Lomas, University of Tartu, Estonia to post of Professor of applied Ecology in the Institute of Ecology and Earth Sciences

May 2012 Evaluation of Dr. David Johnson University of Aberdeen Scotland UK to Reader

June 11-14 2013 Organized Soil Ecology Society Biennial conference at Rutgers Camden (125 delegates).

Collaborators and Other Affiliations:

Collaborators and Co-Editors: G. Arbuckle-Keil (Rutgers), J. W. Baxter (UCal Scaremento), A. F. Harrison (ITE Merlewood), L Ruess (U Aacehen), M. Haggblom (Rutgers), L. Jonsson (Rutgers), R. Koide (Penn State), R. Lathrop (Rutgers), J. Lussenhop (U. Illinois Chicago), P. McDermott (Rutgers), P. Oudemans (Rutgers), T. Tugay (Inst Micro – Kiev), A. R. Tuininga (Forham U), J. White (Rutgers), V. Zheltonozhsky, (Inst Nuclear – Kiev), N. Zhdanova (Inst Micro – Kiev), Helja-Sisko Helmisaari (METLA Finland), Aino Smolander (METLA Finland), Heikki Setala (University of Helsinki, Finland), Mike Starr (University of Helsinki, Finland).

Graduate & Postdoctoral Advisors: M.Sc. John Coulson (University of Durham); Ph. D. Mike Llewellyn (University of London)

Student Advisory

Postdoctoral: 1995 Christine Conn, Victoria Foundation Project
1997 - Jim Baxter, National Science Foundation
1998 - Marcella Mascarenhas, National Science Foundation
2000 - Lena Jonsson, USDA

Doctoral:

Primary advisor: 1995 -8 Amy Tuininga, primary advisor
1995 - Jo Anna Heberger, Co-primary advisor with J-M. Hartman
1997 -04 Shannon Nix, primary advisor
2002 -7 Dennis Gray – E&E. Cook, primary advisor
2002 – Sharron Hicks primary advisor with Tamar Barkay
2004 –8 Jennifer Adams-Krumins primary advisor with Peter Morin
2004 – 9 Bill Landesman primary advisor
2007 - Jennifer Oberle (Ph. D. Ecology and Evolution, New Brunswick) primary advisor
2010 – 2016 Natalie Howe (Ph. D. Ecology & Evolution, New Brunswick) primary advisor.
2011 – Joni Baumgarten (Ph. D. Ecology & Evolution, New Brunswick) primary advisor.
2013 – 2016 Katalin Malcolm (Ph. D. Ecology & Evolution, New Brunswick) primary advisor

Committee: 1995 -7 Jim Baxter, committee member, Pickett
1995 - Jill McGrady, committee member, Morin
1996 - Anne Bansemir, committee member, Sukhdeo
1997 -9 Peiliang Zhu, committee member, Oudemans
1997 -9 Greg Eaton, external committee member, Dartmouth
1997 - Barbara Rogers, committee member, Tate
1997 -8 John Kelly, committee member, Tate
2000 - David Burke, external committee member, Newark, Hamerlynk & Hahn
2000 - Melinda Moy, external committee member, Plant Path. Cook; White

2000 –5 Daniella Linderbasco – Plant Pathology New Brunswick, committee member – Hillman & Oudemans
 2000 –5 Elizabeth Lewis – Plant pathology , committee member Jim White
 2003 –8 Kristen Ross – E&E Cook, PhD committee (Joan Ehrenfeld)
 2004 –7 Alex Hernandez – E&E, Cook, PhD committee (Mike Sukhdeo)
 2004 –8 Monica Torres – Plant Pathology, Cook, Committee member – Jim White
 2004 – 8Rich Lucas (PhD) U. Penn committee member
 2005 – Michael Zolkewitz – Drexel committee member (Walter Bien)
 2005 – Nicholas Skowronski – E&E, Cook, Ming Zhou
 2005 – Elizabeth Barron – Geography Livingston committee member (Rick Schroeder)
 2005 – Barbara Edelhauser – Georgian Court committee member (Louise Wootton)
 2006 – Inga Parker (PhD Ecology & Evolution) Rick Lathrop committee
 2006 – Emma Aronson (PhD) U Penn committee member
 2007 – Amy Karpati (PhD Ecology & Evolution) Steven Handel committee member
 2007 – Stacey Lentini (PhD Ecology & Evolution) Mike Sukhdeo committee member
 2007 – Zac Freedman (PhD Ecology & Evolution) Tamar Barkay committee member
 2007 – Patricia Alvarez (PhD Ecology & Evolution) Jim White committee member

Masters:

Primary advisor 1995 - Heather Livezey, started September 1995, primary advisor
 1997 - Murray McHugh - primary advisor E&E
 1997 - Roxanne Robles-Torres - U. Puerto Rico, Mayaguez co-advisor C. Betancourt
 1999 - Leigh-Ann Rowlan - E&E New Brunswick - major advisor
 2002 – Don Brickner – Camden MS thesis primary advisor
 2003 – 2005 Rachel Ward – E&E, Cook MS primary advisor with Tamar Barkay
 2004 - Melissa Zimmerman (MS Camden) Primary advisor
 2005 – 8 Rachel Ward – E&E Primary advisor with Tamar Barkay
 2005 – Kristen Lammers primary advisor with Arbuckle Keil
 2005 – Alice Chin advised with Arbuckle-Keil
 2006 – Jason Stanwood (MS Camden)
 2006 – David Keller (MS Camden)
 2007 - Karena DiLeo (MS Ecology and Evolution, New Brunswick)
 2010 – 201 Melanie Maghrang (MS Camden)
 2010 – 2015 Rebecca Bachelor (MS Camden)
 2011 – 2015 Sarah Smith (MS Camden)
 2014 – 2016 Jocelyn Wardlaw (MS Camden)
 2016 – Denise Hassinger (MS Camden)
 2016 – Zachary Cook (MS Camden)

Committee 1995 - Matthew Cieri, defense 1995, committee member
 1995 - Jeff Nemetz, defense 1995, committee member
 1996 - Eleanor Vine - Plan B - independent research credits
 1996 - Jeanette Bowers-Altman - Plan B committee/ major
 1996-7 Roger Hoden - Plan B committee/major
 1996-7 Eleanor Vine - Plan B committee/major
 1996-7 Christopher Storke - Plan B committee/major
 1998-2001 – Edward Filip – Camden plan B – major advisor
 1999 – Mike Haberland – E&E committee (Ken Able)
 2000 – Ron Smith – Camden plan B major advisor
 2001 – Melinda Challis – E&E plan B committee
 2002 – 2004 James DeFelice – MS Camden – Plan B non thesis
 2002 – Bin Xu – Villanova (MS) committee (Kel Weider)
 2002 – Amy Long – E&E Cook, MS committee
 2004 – Jennifer Kinsky Camden plan B examination committee
 2004 – Tracie Paulson (MS Camden) Plan B major advisor
 2005 - Michael Boucher (MS Camden) Plan B major advisor

2006 – Jeffrey Rosenman (MS Camden) Plan B Committee member (Sarkar)
2006 – 2009 Andrea Kornblugh – E&E Primary Advisor
2011 – William Johnsson (MS Camden) Thesis

Undergraduates:

1995 Sara Scanga, summer internship
1995 Kimberly Fox, summer worker
1996 Nelson Martinez U. Puerto Rico summer intern
1996 Ruben Jimenez U. Puerto Rico summer intern
1996 Gail Sevrens summer intern
1996 Kathy Regan summer volunteer
1996 Tara McCoy, University of Santa Fe, New Mexico - summer-Fall
1996 Edward Martino fall volunteer Camden
1997 Ruben Rovira U. Puerto Rico summer intern
1997 Jim Alderson IMCS summer intern
1997 Uta Shimizu Camden intern (with Mark Morgan)
1997 Erin Garnett summer volunteer
1997 Donna Wilson summer paid worker
1997 Rustin Director paid student w Haggblom & Tate
1997 Emily Hilton paid student w Tate & Haggblom
1998 Thomas Ferzetti, summer intern
1998 Elizabeth Huffnagel, summer intern
1998 Gin Keefer, independent study Rowan College
1998 Anwar Morales, summer intern U. Puerto Rico
1998 Emily Hilton paid student worker w Haggblom & Tate
1998 Erin Garnett paid student worker w Haggblom & Tate
1999 Eric Garcia, summer intern, U. Puerto Rico w Haggblom and Ruess
1999 Elizabeth Arias, summer intern, U. Puerto Rico
1999 Christine Edly, summer intern (IMCS)
1999 Jim DiDinado, summer intern (Camden)
2000 Ivy Koelliker, summer intern (New Brunswick)
2000 Zhiling Gau, summer intern (Swarthmore)
2000 Ingrid Kaszas, summer intern (Swarthmore)
2000 Jessica Williams, summer intern (Swarthmore)
2001 Mary Ann Palmer (Rutgers, Cook)
2001 Lori Smith (Shepherd University)
2001 George Knoll (Rowan College)
2001 Stacey Wallace (Rowan College)
2001 Steve Wilson (Rutgers Camden)
2002 Katherine Murnen (Swarthmore)
2002 Jaimie Hall (Alfred University)
2002 Eric Cohen (Stockton)
2003 Tiffany Mauro (Drew University)
2003 Elena Tartaglia (Drew University)
2003 Aaron Love (Rutgers Cook) G. H. Cook honors thesis
2004 Riina Moshe (Camden) with Shannon Nix
2004 Behnaum Shahrokh (Camden)
2004 Sarah Hart (Mount Allsion, Canada) summer intern
2004 Vanessa McGowan (Rutgers New Brunswick) summer intern
2005 Steven Schultz (College of New Jersey) summer intern
2005 Sylvia Tadros (Rutgers, Camden)
2006 Jennifer Oberle (Rutgers, New Brunswick)
2006 Veronica Kane (Rutgers, Camden)
2007 Alice Zelman (Rutgers, New Brunswick)
2007 Andre Gabriel (Rutgers Camden – paid SARE grant)

2008 Kimberly Donat (Rutgers Camden) REU student
 2008 Erin Gutilla REU student
 2009 Amelia Min-Venditti REU student
 2009 Andrew Cortese REU Student
 2009 Melanie Maghirang (Rutgers Camden – NSF Finland grant)
 2009 Elizabeth Stedman (Rutgers Camden – NSF Finland grant)
 2009 William Johnston (Rutgers Camden – NSF Finland grant)
 2010 Emily Waters (Hampshire College, MA) – McIntire Stennis grant and volunteer
 2010 Iveth (Rosa) Mejia (Union County College) – own fellowship
 2010 Christina Homer (U. California – recent graduate) – Forest Service money
 2010 Melissa Kendall (Rutgers recent grad) – volunteer
 2010 Brian Lallier (Rutgers Camden) NSF Finland
 2010 Sarah Smith (Rutgers Camden) NSF Finland
 2010 Katalin Malcolm (Rutgers Camden) NSF Finland
 2010 Lauren Quast (Philadelphia University) NSF Finland
 2010 Krystle Frederick (William Patterson University) REU Student
 2010 Jonathan Swanson (Gloucester County College, NJ) REU Student
 2011 Emily Waters (Hampshire College, MA) NSF Finland project
 2011 Domenic Antolik (Rutgers Camden)) NSF Finland project
 2011 Zachary Borden (Rutgers Camden)) NSF Finland project
 2011 Matthew Verosloff (Rutgers New Brunswick) NSF Finland project
 2011 Iveth (Rosa) Mejia (Union County College) – own fellowship
 2012 Daniel Ricketti (Rutgers Camden) McIntire Stennis
 2012 Jocelyn Wardlaw (Rutgers Camden) women in Science
 2013 Evan Baum (Drexel cooperative student)
 2013 Rick Stevens (Drexel cooperative student)
 2013 Melissa Kane (Rutgers Camden) McIntire Stennis
 2013 Michelle Wong (Rutgers Camden) volunteer
 2013 Danielle Itri (Rutgers Camden) volunteer
 2013 Heather Stang (Rutgers Camden) volunteer independent study
 2013 Christopher Norlack (Rutgers Camden) volunteer
 2013 Tina Le (Rutgers Camden) Q-STEP student
 2013 John Rapacz – CCIB REU student
 2013 Lars Hoeger (Dartmouth U) volunteer
 2014 Citlally Garcia: Fairleigh Dickinson University, Alliance/Merck Ciencia Hispanic Scholars Program
 2014 Evan Baum (Drexel cooperative student)
 2015 Gabriel Farrell (Drexel cooperative student)
 2016 Gabriel Farrell (Drexel cooperative student)
 2016 Josh Bushta (Drexel)
 2016 JenBeth Johnson (Rutgers Camden)
 2016 Igor Sokolenko (Drexel cooperative student)
 2016 Nila Colon-Street (Rutgers Camden)
 2016 Elizabeth Pyshnik (Rutgers SEBS)
 2017 Gabrielle Kershaw (U. Iowa)
 2017 Tara Santora (Oberlin)

Highschool:

1995 Sara Scovronick, summer
 1996 Valerie Orth, Moorestown Friends, summer
 2004 Erik Ramstak, Haddonfield High, summer
 2004 Matthew Campbell, Haddonfield High, summer
 2017 Jessica Lecorchick

Grants:

Victoria Foundation: Managed fire frequency and forest nutritional sustainability in the New Jersey pinelands. \$ 21,100 from 1/01/97 to 12/30/97.

McIntire-Stennis: Soil Biodiversity and Risk Assessment. \$ 75,000 November 1996 - September 1999. With Dr R. Tate (Environmental Science) and Dr. M. Haggblom (Agbiotech).

Rutgers University SROA: Ecosystem Management in Urban Settings. \$ 50,000 December 1996 - June 1997.

Rutgers University SROA: Ecosystem Management in Urban Settings. \$ 50,000 December 1997 - June 1998.

NSF: A comparative ecophysiological approach to understanding multi-species mycorrhizal functioning. IBN-23254 \$70,002 September 1997 - February 1999

NSF: Island biogeography of non-discrete organisms: functional analysis of resource island colonization by saprotrophic fungi using FT-IR microspectroscopy \$ 50,000 January 1998 - December 1998.

NSF: A comparative ecophysiological approach to understanding multi-species mycorrhizal functioning. IBN-9904007; \$274,996 July 1999 - June 2002.

USDA NRI: Biotic and edaphic controls of ectomycorrhizal community structure and function. \$329,498, September 1999 - August 2002

NSF (subcontract from Dr. L. Kaplan, Stroud Water Research Center): Dissolved organic matter biogeochemistry: linking ecosystem processes, community structure and microbial dynamics in streams. \$ 25,192 October 1999 - September 2001.

NJ DEP Biotic Indicators of Atmospheric N Deposition, May 2001 – May 2002, \$ 80,000, joint with Rowan University.

NJ DEP Refining methods for detection of biotic indicators of atmospheric nitrogen deposition, July 2002 – June 2003, \$ 106,801, Joint with Fordham University.

NSF FSML Field Station Improvement Grant for dormitory building at the Pinelands Field Station – Sept. 2002 – Sept. 2005: \$99,990.

USDA Forestry Research: Regional climate and fire danger modeling specific to the pine barrens, June 2002 – June 2004, \$ 38,141

NSF Emergent properties of fungi exposed to long-term radiation: Fungal Ecophysiology, Jan 2002 – Dec 2002, \$ 80,000 linked with Inst. Microbiology and Inst. for Nuclear Research, Ukraine and Inst. Microbiology, Moscow, Russia.

US Fish and Wildlife Service: Effects of fire on the ericaceous understory and edaphic factors and their role in P cycling in the pine barrens ecosystem at Upton Ecological and Research Reserve: Implications for management. January 2003 – October 2004. \$10,236, sub-contract from Fordham University

NJ DEP Refining methods for detection of biotic indicators of atmospheric nitrogen deposition, July 2003 – June 2004, \$ 85,000, Joint with Fordham University.

USDA Forestry Research: Regional climate and fire danger modeling specific to the pine barrens, June 2004 – June 2006, \$ 38,141

NJ DEP Changes in Forest Health and Nutrient Cycling Resulting from Atmospheric Deposition of Nitrogen June 2004 – June 2005, \$ 85,000, Joint with Fordham University

NE SARE, An Integrated Approach to Developing Nutrient Management Schemes for Container-Grown Nursery Crops, \$106,562, 05/01/07 – 04/30/10: PI Zinati, CoPI Dighton

USDA Forest Service, Atmospheric Deposition of Pollutants at the Rutgers University Pinelands Field Station (Silas Little Experimental Forest). \$ 66,000, 10/01/2007-09/30/2010

NSF REU Interdisciplinary Undergraduate Research Projects based on studies in the New Jersey Pinelands. 2008-2011 (PI Dighton, Co-PI Saidel) NSF#0754800 Award Title: REU Site: Interdisciplinary undergraduate research projects based in the New Jersey Pinelands Award Amount: \$ 242,005.00

NSF International Research Experience for Students: Impacts of Forest Floor Manipulations and the Problem of Post Harvest Residue Removal for Biofuels 2008-2011 (PI Dighton, Co-PI Gray). \$ 146,126

NSF MRI: Acquisition of an Atomic Force Microscope and Tunable Infrared Laser for Advanced Interface Engineering and Interrogation. 08/01/09 – 07/20/11 \$395,000. (PI Bubb, CoPIs Vardanyan & Dighton).

USDA McIntire Stennis: Impacts of Forest Thinning and Soil Disturbance on Sustainability in the NJ Pine Barrens 07/01/2010 – 06/30/2013 \$ 199,960 (PI Dighton, Co-PI Gray).

USDA McIntire Stennis: The role of Acidobacteria Communities in Carbon and Nitrogen Cycling Processes in New Jersey Pineland Soils (07/01/11 – 06/30/14) \$190,000 (PI Haggblom, Co-PIs Kerkoff and Dighton)

USDA McIntire Stennis: Coarse woody residue decomposition affected by southern pine beetle: fungal interactions influencing fire hazard in the NJ pine barrens. (07/01/13 – 06/30/16) (PI Dighton, Co-PI Zhang) In collaboration with Matthew Ayres Dartmouth University \$60,000

USDA McIntire Stennis: Regulation of Pitch Pine Wood Decomposition in the NJ Pine Barrens 2016 – 2019 (PI Dighton, Co-PI Zhang) \$60,000

Publications:

1978

Dighton, J. (1978) Effects of lime aphid honeydew on populations of soil organisms. *Soil Biology Biochemistry* **10**, 369-376.

Dighton, J. (1978) In vitro experiments simulating the possible fate of aphid honeydew sugars in soil. *Soil Biology Biochemistry* **10**, 53-57.

1983

Dighton, J. (1983) Phosphatase production by mycorrhizal fungi. *Plant and Soil* **71**, 455-462.

Dighton, J. (1983) Phosphatase production by mycorrhizal fungi. In: Atkinson, D.e.al., (Ed.) *Tree Root Systems and their Mycorrhizas*, pp. 455-462.

Dighton, J. and Harrison, A.F. (1983) Phosphorus nutrition of lodegpole pine and Sitka spruce stands as indicated by a root bioassay. *Forestry* **56**, 33-43.

Mason, P.A., Dighton, J., Last, F.T. and Wilson, J. (1983) Procedure for establishing sheathing mycorrhizas on tree seedlings. *Forest Ecology and Management* **5**, 47-53.

1984

1985

Dighton, J. and Mason, P.A. (1985) Mycorrhizal dynamics during forest tree development. In: D. Moore, L. A. Casselton, D. A. Wood and J. C. Frankland, (Eds.) *Developmental Biology of Higher Fungi*, pp. 163-171. Cambridge: Cambridge University Press]

Heal, O.W. and Dighton, J. (1985) Resource quality and trophic structure in the soil system. In: A. H. Fitter, D. Atkinson, D. J. Read and M. B. Usher, (Eds.) *Ecological Interactions in Soil*, pp. 339-354. Oxford: Blackwell]

1986

Dighton, J. (1986) Mycorrhizas. In: K. Jones and P. J. Lee, (Eds.) *Biology in the '80s Vol 5. Applied and*

- Environmental Microbiology*, pp. 161-180. Lancaster: Lancaster University]
- Dighton, J., Poskitt, J.M. and Howard, D.M. (1986) Changes in occurrence of basidiomycete fruit bodies during forest stand development: with specific reference to mycorrhizal species. *Transactions of the British Mycological Society* **87**, 163-171.
- Dighton, J., Skeffington, R.A. and Brown, K.A. (1986) The effects of sulphuric acid (pH3) on roots and mycorrhizas of *Pinus sylvestris*. In: V. Gianninazi-Pearson and S. Gianninazi, (Eds.) *Mycorrhizae: Physiology and Genetics*, pp. 739-743. Paris: INRA]
- Harrison, A.F. and Dighton, J. (1986) A root bioassay for determination of P-deficiency in commercial forest stands. *Journal of Science Food and Agriculture* **37**, 16-17.
- Harrison, A.F. and Dighton, J. (1986) A phosphorus-deficiency bioassay for trees and grasses in low nutrient status soils. 957-963p. Montpellier: AIONP/GERDAT. (1985)
- Heal, O.W. and Dighton, J. (1986) Nutrient cycling and decomposition of natural terrestrial ecosystems. In: M. J. Mitchell and J. P. Nakas, (Eds.) *Microfloral and Faunal Interactions in Natural and Agro-Ecosystems*, pp. 14-73. Martinus Nijhoff/Dr. W. Junk]
- 1987**
- Dighton, J. and Skeffington, R.A. (1987) Effects of artificial acid precipitation on the mycorrhizas of Scots pine seedlings. *New Phytologist* **107**, 191-202.
- Dighton, J., Thomas, E.D. and Latter, P.M. (1987) Interactions between tree roots, mycorrhizas, a saprotrophic fungus and the decomposition of organic substrates in a microcosm. *Biology and Fertility of Soils* **4**, 145-150.
- Harrison, A.F. and Dighton, J. (1987) Phosphate fertilizer - what your spruce and pine need. *Forestry and British Timber* **October 1987**, 19-21.
- Jones, H.E., Harrison, A.F. and Dighton, J. (1987) A ⁸⁶Rb bioassay to determine the potassium status of trees. *New Phytologist* **107**, 695-708.
- Last, F.T., Dighton, J. and Mason, P.A. (1987) Successions of sheathing mycorrhizal fungi. *Trends in Ecology and Evolution* **2**, 157-161.
- 1988**
- Dighton, J. (1988) Some effects of acid rain on mycorrhizas of Scots pine and potential consequences for forest nutrition. In: A. E. Jansen, J. Dighton and A. H. M. Bresser, (Eds.) *Ectomycorrhiza and Acid Rain*, pp. 104-111. Brussels: CEC Air Pollution Research Report 12]
- Dighton, J. and Horrill, A.D. (1988) Radiocaesium accumulation in the mycorrhizal fungi *Lactarius rufus* and *Inocybe longicystis*, in upland Britain. *Transactions of the British Mycological Society* **91**, 335-337.
- Harrison, A.F. and Dighton, J. (1988) Issue 6, NERC News, Natural Environment Research Council.
- Jansen, A.E., Dighton, J. and Bresser, A.H.M. (1988) *Ectomycorrhiza and Acid Rain*, edn. Brussels: CEC Air Pollution Research Report 12.
- Jones, K.C., Watts, S.A., Harrison, A.F. and Dighton, J. (1988) The distribution of metals in the forest floor of aged conifer stands at a plantation in northern England. *Environmental Pollution* **51**, 31-47.
- 1989**
- Dighton, J. and Boddy, L. (1989) Role of fungi in nitrogen, phosphorus and sulphur cycling in temperate forest ecosystems. In: L. Boddy, R. Marchant and D. J. Read, (Eds.) *Nitrogen, Phosphorus and Sulphur Cycling in Temperate Forest Ecosystems*, pp. 269-298. Cambridge: Cambridge University Press]
- Dighton, J., Mason, P.A. and Harrison, A.F. (1989) Field use of ³²P tracer to measure phosphate uptake by birch mycorrhizas. *Agriculture, Ecosystems and the Environment* **28**, 95-99.
- 1990**
- Dighton, J., Mason, P.A. and Harrison, A.F. (1990) The use of ³²P tracer to measure phosphate uptake by mycorrhizas of birch in the field: a preliminary study. In: A. F. Harrison, P. Ineson and O. W. Heal, (Eds.) *Nutrient Cycling in Terrestrial Ecosystems: Field Methods, Applications and Interpretations.*, pp. 389-399. Elsevier]
- Dighton, J., Mason, P.A. and Poskitt, J.M. (1990) Field use of ³²P tracer to measure phosphate uptake by birch mycorrhizas. *New Phytologist* **116**, 655-661.
- Dighton, J. (1990) Summary Chapter: Nutrient supply to plants. In: A. F. Harrison, P. Ineson and O. W. Heal, (Eds.) *Nutrient Cycling in Terrestrial Ecosystems: Field Methods, Applications and Interpretation*, pp. 441-445. Elsevier]
- Dighton, J. and Harrison, A.F. (1990) Changes in the phosphate status of Sitka spruce plantations of increasing age,

- as determined by root bioassay. *Forest Ecology and Management* **31**, 35-44.
- Frankland, J.C., Dighton, J. and Boddy, L. (1990) Methods for studying fungi in soil and forest litter. In: R. Grigorova and J. R. Norris, (Eds.) *Methods in Microbiology* **22**, pp. 343-404.
- Harrison, A.F., Dighton, J., Taylor, K., McDonald, M. and Jones, H.E. (1990) Phosphorus nutrition of trees and grasses using a root deficiency bioassay. In: A. F. Harrison, P. Ineson and O. W. Heal, (Eds.) *Nutrient Cycling in Terrestrial Ecosystems: Field Methods, Applications and Interpretation.*, pp. 373-388. Elsevier]
- Harrison, A.F. and Dighton, J. (1990) Determination of phosphorus status of wheat and barley crops using a rapid root bioassay. *Journal of Science Food and Agriculture* **51**, 171-177.
- Jansen, A.E. and Dighton, J. (1990) Effects of air pollutants on ectomycorrhizas. *CEC Air Pollution Research Report 30* **30**,

1991

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Papers presented:

October 1994: "Is it possible to develop microbial test systems to evaluate pollution effects on soil nutrient cycling?" Invited contribution to SERAS (Soil Ecotoxicology Risk Assessment) workshop, The Netherlands. For publication in book edited by N van Straalen.

May 1995: "Research in the New Jersey Pinelands" Invited contribution to Outer Coastal Plain/Pinelands Research Symposium, Stockton State College (published in a monograph together with group discussion comments, led by J. Dighton, edited by M B Kaplan, NJ DEP, November 1995).

September 1995: "Auswirkungen saurer Niederschläge auf Mykorrhizastruktur, Pilzbiomasse und Nematodenfauna in einem Fichtenforst" Ruess, L., Dighton, J. & Cudlin, P. to Gesellschaft für Ökologie (25th Annual Meeting of the German Ecological Society) [presented by L Ruess].

October 1995: "Role of Fungi in Nutrient Cycling in Soil" Invited paper to the Soil Science Society of America Division S-3, St Louis.

April 1996: "The importance of being a large, long-lived, fractal organism: encounters with pollutant chemicals" Invited introductory lecture Camden Chemistry Club Annual Undergraduate Research Seminar

August 1996: Co-Chaired Discussion Workshop "Saprotrophic capabilities of mycorrhizal fungi" with Dr Jacqueline Baar at 1st International Conference on Mycorrhizae, Berkeley, San Francisco.

August 1996: Poster "The influence of litter quality on mycorrhizal communities" C. Conn & J. Dighton; 1st International Conference on Mycorrhizae, Berkeley, San Francisco.

August 1996: Poster: "Ectomycorrhizae and oak seedling performance in human altered forest ecosystems" J. W. Baxter, S. T. A. Pickett, M. M. Carriero & J. Dighton; 1st International Conference on Mycorrhizae, Berkeley, San Francisco.

August 1996: "Biological indicators of soil acidification: nematodes and their interactions with fungi." L. Ruess & J. Dighton, XII International Colloquium on Soil Zoology, Dublin [presented by L. Ruess]

February 19 1997: "The importance of being a large, long-lived, fractal organism: encounters with pollutant chemicals" Invited lecture to The American Institute of Biological Sciences, Shaffrey Chapter, Saint Joseph's University, Philadelphia.

October 27 1997: "The importance of fungi in ecological processes" Rowan College undergraduate seminar.

October 31 1997: "Interactions of fungi and pollutants" Ecolunch seminar series University of Pennsylvania.

November 1997 : "Interactions of fungi and pollutants" Ecology group Dartmouth University.

February 20 1998: "Towards an understanding of the role of mycorrhizas" Joint Universities Seminar series Montreal.

March 26 1998: "The Fungal Basement" Philadelphia Botanical Club, invited lecture.

June 1998: "Short-term effects of prescribed burning on ectomycorrhizal community structure, nutrient uptake and soil water chemistry in the New Jersey Pine Barrens" A. Tuininga, D. Gray & J. Dighton. International Conference on Mycorrhizae, Uppsala, Sweden.

June 1998: Organized workshop on "Forest fire and disturbance effects on ectomycorrhizal communities. with Amy Tuininga & Keith Egger, International Conference on Mycorrhizae, Uppsala, Sweden.

June 11 1998: "Community response of phylloplane fungi to fire in the New Jersey Pine Barrens" S. S. Nix & J. Dighton: poster to Mycological Society of America Annual Meeting, Puerto Rico.

August 1998: "Nitrogen and phosphorus availability in human-altered ecosystems" J. W. Baxter, S. T. A. Pickett, J. Dighton & M. M. Carreiro: paper to Ecological Society of America, Baltimore.

October 1 1998 "The role of the forest floor as a potential control of ectomycorrhizal community structure" Presented to the Swedish University of Agricultural Sciences, Uppsala, invited lecture.

October 2 1998 Invited opponent to PhD Thesis by Lena Jonsson "Community Ecology of Ectomycorrhizal Fungi in Swedish Boreal Forests". Swedish University of Agricultural Sciences, Uppsala.

March 1 1999 "What, where, when and how much: an ecologists view of chemistry and radiochemistry" to Chemistry Graduate Seminar Series, Camden

March 7 1999 "Mycorrhizae: more than making plants grow" invited lecture to NJ Mycological Society

March 11 1999 "The importance of diversity in mycorrhizae" Seminar to Microbiology class and Industrial Microbiology, University of Puerto Rico at Mayaguez.

March 25 1999 "Links between leaf litter dynamics and mycorrhizal fungal communities in the NJ pine barrens" Seminar to Ecology & Evolution Graduate School, New Brunswick.

May 23 - 26 1999 "The influence of leaf litter quality on ectomycorrhizal communities." C. Conn & J. Dighton; Soil Ecology Society conference Chicago.

May 23 - 26 1999 "The influence of ericaceous understory stems as leaf litter dams and potential consequences for soil biota." J. Dighton, A. Morale-Bonilla, R. Jimenez-Nunez & N. Martinez; Soil Ecology Society conference Chicago.

August 8-12 1999 - papers read at ESA annual meeting Spokane, WA

"Multiple ectomycorrhizal colonization affects host tree performance under low nutrient conditions" Baxter, J. W. & Dighton, J.

"Ectomycorrhizal taxonomic methods and their role in the understanding of mycorrhizal function." Dighton, J., Tuininga, A. R. & Jonsson, L.

“Effect of fire intensity and time since burn on below-ground nutrient dynamics in the New Jersey Pine Barrens”
Tuininga, A. R., Gray, D. M. & Dighton, J.

“Short-term and long-term effects of fire frequency on below-ground nutrient dynamics in the New Jersey Pine Barrens.” Gray, D. M., Tuininga, A. R. & Dighton, J.

July 12 2000 – ‘Capachino Academy’ RU Camden lecture at Barnes & Noble (Marleton) ‘The New Jersey Pine Barrens: the Need for Basic Research’.

Nov. 30 2000 - Seminar to Biology Department, Villanova University: ‘Effects of forest floor heterogeneity on the structure and function of ectomycorrhizal communities’.

September 2000 - ‘Leaf litter controls of ectomycorrhizal community structure and function: an application to sustainable forestry.’ International Meeting on The Role of Soils in Forest Sustainability, Vila Real, Portugal, with Jim Baxter & Christine Conn.

September 2000 – ‘Soil Ecology’: invited seminar as part of a USA delegation to Kiev, Ukraine to participate in a workshop ‘New Approaches to Understanding the Ecology of Urban Plant Communities. Kiev, Sept. 11-18.

August 2001 – Presentations to the Ecological Society of America annual meeting:

Baxter, J. W. & Dighton, J. ‘Does ectomycorrhizal diversity matter? Evidence from pitch pine grown under inorganic and organic phosphorus conditions.’ (paper)

Gray, D. M. & Dighton, J. ‘The fate of nutrients released by control burning and the effect on pine seedling growth.’ (paper).

Dighton, J., Arbuckle-Keil, G. & Mascarenhas, M. M. ‘Micro-scale changes in leaf litter surface carbohydrate chemistry during decomposition.’ (poster).

Jonsson, L., Dighton, J., Lussenhop, J. & Koide, R. ‘Edaphic and biotic controls of ectomycorrhizal species diversity.’ (poster).

Aug 2002

Pinelands Summer School – present a lecture on soils to teachers attending this course run by the Pinelands Preservation Alliance

August 2003

Dighton, J., Tugay, T., Zhdanova, N. N., Zheltonozhsky, V. & McDermott, P. ‘The influence of ionizing radiation on directional growth of emergent hyphae from conidiophores’ MSA/BMS Asilomar, California (paper)

Baxter, J. W. & Dighton, J. ‘Linking ectomycorrhizal diversity to host plant performance’ ICOM4, Montreal Canada (paper)

Jonsson, L., Dighton, J., Lussenhop, J. & Koide, R. ‘Effects of ground leaf litter from various plant species on ectomycorrhizal fungal communities of *Pinus rigida* seedlings. ICOM4, Montreal Canada (poster)

Tuininga, A. R., Dighton, J., Huskins, R., Gray, D. M. & Belton, T. ‘Nitrogen deposition effects on mycorrhizal communities in the New Jersey Pine Barrens’. ICOM4, Montreal Canada (poster).

Tugay, T. I., Zhdanova, N. N., Redchits, T. I., Zheltonozhsky, V. A., Sadovnikov, L. V. & Dighton, J. ‘Response reactions of some micromycetes to the influence of low doses of radioactivity’ XIV Congress of European Mycologists, Ukraine, (poster).

Zhdanova, N. N., Redchits, T. I., Tugay, T. I., Zheltonozhsky, V. A., Sadovnikov, L. V. & Dighton, J. ‘Biological activity of fungi isolated from localities of high radioactive pollution’ XIV Congress of European Mycologists, Ukraine, (paper).

Pinelands Summer School – present a lecture on soils ‘Soils: the foundation of terrestrial ecosystems’ and conducted a field trip for teachers attending this course run by the Pinelands Preservation Alliance

Barrens to the Beaches – conducted a half day of activities for high school students and teachers on the changes in water from rainfall through forest canopy and soil into streams in the pine barrens of NJ – part of a course organized by the Pinelands Preservation Alliance.

Invited lecture in closing session of the NJ Governor’s School on Ecology and the Environment ‘Scientific research: Hypothesis, speculation and chance’.

October 3 2003: 2003 Pine Barrens Research Forum – lecture ‘Recovery Patterns of Ectomycorrhizal Diversity and Function Following Fire’ Tuininga, A. R., Dighton, J. & Gray, D. M. – Brookhaven National Laboratory, Upton, NY

November 20 2003 The Restoration of Urban/Suburban Green Space: Past, Present and Future: A Practical Approach. Dighton, J. ‘Soil: its intricacies and implications in restoration.’ invited paper, The Schuylkill Center, Pennsylvania.

August 2004

Mycological Society of America

Nitrogen deposition effects on pine ectomycorrhizal fungal communities identifying potential indicator species. Tuininga, A. R., Huskins, R. E., Dighton, J., Gray, D. M. & Belton, T. (poster).

Ecological Society of America

Impacts of atmospheric deposition on New Jersey pine barrens forest soils and ectomycorrhizal communities. Dighton, J., Tuininga, A. R., Gray, D., Huskins, R. E. & Belton, T. (oral)

Nitrogen deposition effects on ectomycorrhizal communities: A comparison between two soil types. Huskins, R. E., Tuininga, A. R., Dighton, J., Gray, D. M., Belton, T. (oral)

Elevated nitrogen effects on oak mycorrhizae. Tuininga, A. R., Archibald, J., Van Horn, M. M., Huskins, R. E., Dighton, J., Belton, T. (oral)

Response of *Pinus rigida* to an experimental ectomycorrhizal diversity gradient in unsterilized soils. Baxter, J. W., Dighton, J. (oral).

Ericaceous control of phosphorus availability following fire: interactions between ectomycorrhizal pitch pine (*Pinus rigida*) and ericoid mycorrhizal blueberry plants (*Vaccinium angustifolium*). Mullin, B. C., Tuininga, A. R., Dighton, J., Van Horn, M. M., Huskins, R. E., Vargas, A. M. (poster).

September 2004

British Mycological Society

Impacts of Atmospheric N Deposition on Communities of Ectomycorrhizae in Oligotrophic New Jersey Pine Barrens Forest Soils. John Dighton, Amy Tuininga, Dennis Gray, Rebecca E. Huskins and Thomas Belton (poster)

Interactions Between Fungal Communities on Cranberry Leaf Surfaces. Shannon Stohr and John Dighton (poster)

Ionizing Radiation Influences Spore Germination and Directionality of Growth of Emerging Hyphae. John Dighton, Tatyana Tugay, Nelli Zhdanova, Victor Zheltonozhsky & Patrick McDermott (oral presentation).

October 2004

N.E. and Midlantic AMERIFLUX meetings

Carbon cycling research in the pine barrens of New Jersey. Clark, K. L., Hom, J., Skowronski, N., Wyckoff, T., Dighton, J., Xu, M., Hammerlynk, E., Gray, D. & Brickner, D. (poster)

COST Action workshop, Woody Root Processes under a Changing Environment. Thessaloniki Greece (Oct 27-30)

Functional role of roots in response to environmental factors. Dighton, J. (invited keynote oral paper).

2005

March 5: 16th Annual Pinelands Short Course (BCC) tour of Pinelands Field Station ‘Research at the Silas Little Research Station’ (25 students)

March 9: Burlington County Natural Sciences Club. Talk on soil ecology.

May 22-25: Soil Ecology Society – Brickner, D., Dighton, J & Gray, D. M. Prescribed fire effects and belowground carbon storage in a New Jersey pine barrens pine-oak forest. (oral presentation by Brickner).

May 22-25: Soil Ecology Society – Gray, D. M. & Dighton, J. Mineralization of forest litter nutrients by combustion.

June 25: ‘Fungi in Ecosystem Processes’ invited talk to New Jersey Mycological Society

July 12: Pinelands Soil – talk to the Pinelands Preservation Alliance 6th Annual Pinelands Summer Teacher Institute – follow-up field excursion.

Sept British Mycological Society Annual Meeting – Poster ‘Effects of mercury on ectomycorrhizal fungi’ Hicks-Crane, S., Dighton, J. & Barkay, T.

Oct 28 Davefest – soil ecology meeting Athens GA. ‘Leaf litter composition influences ectomycorrhizal fungal and soil faunal communities’. Dighton, John, Jonsson, Lena, Lussenhop, John, and Koide, Roger, Oral presentation

Dec 1 Rotary ‘ Rutgers Pinelands Field Station: Its Mission and Research’

Characterization of Leaf Litter from the New Jersey Pinelands before and after Managed Burns using FT-IR and TGA-IR, Kristin Lammers, J. Dighton and G. A. Arbuckle-Keil, Eastern Analytical Symposium, Somerset, NJ, November 14 – 17, 2005.

2006

NJ Mycological Society ‘ The Role of Fungi in Soil Processes’ – January 8 2006

NASA Space Life Sciences Lab, Kennedy Space Center, Florida ‘ Fungi and Pollution: Case Studies in Nitrogen Deposition and Radionuclide Pollution’ – January 12 2006

Characterization of Leaf Litter from the New Jersey Pinelands using FT-IR, Kristin Lammers, G. A. Arbuckle-Keil, and J. Dighton, The Sixth Annual Graduate Student Poster Session, Philadelphia Section American Chemical Society, Villanova Conference Center, Villanova, PA, January 19, 2006.

FT-IR Analysis of the Chemical Composition and Thermal Decomposition of Leaf Litter from the New Jersey Pinelands, G. A. Arbuckle-Keil, K. Lammers, J. Dighton, 231st ACS National Meeting, Atlanta, GA, March 26-30, 2006.

Radionuclides and fungi: Fungal behavior, fungal communities and impacts on radionuclide mobility in soil. World Congress on Soil Science, June 2006 (invited poster)

Thermal and Infrared Analysis of Leaf Litter from the New Jersey Pinelands before and after Managed Burns, K. Lammers, G. Arbuckle-Keil, J. Dighton, 38th Middle Atlantic Regional Meeting (MARM), Hershey, PA, June 4 – 7, 2006.

Harvard Invited Seminar ‘ Fungi and Pollution: Case Studies in Nitrogen Deposition and Radionuclide Pollution’ – March 14 2006

Drexel University Invited Seminar ‘ Fungi and Pollution: Case Studies in Nitrogen Deposition and Radionuclide Pollution’ – April 20 2006

British Mycological Society Annual Meeting, Birmingham, UK – Poster- Growth responses to and accumulation of mercury by ectomycorrhizal fungi. Sharron Crane, John Dighton & Tamar Barkay. September 3-7 2006

Finnish Forest Research Institute, Helsinki – invited seminar: Post Harvest Residue Management: A Forestry Dilemma. J. Dighton (Invited) September 15 2006

ACS Chicago Elucidating the emission of chemical compounds from terrestrial fungal-fungal interactions through chromatographic techniques. Alice Chin, Dr. Georgia Arbuckle-Keil, Dr. John Dighton, Dr. Cesar Rodriguez-Saona (poster)

2007

XV Congress of European Mycologists, St Petersburg, Russia Sept 16-20

Fungal succession on and decomposition of gypsy moth frass. J. Dighton, J. Adams Krumins & D. M. Gray (oral presentation)

Results of 20 years monitoring of soil mycobiota within the 10-km alienation zone of the Chernobyl Nuclear Power Plant. N. N. Zhdanova, A. I. Vasilivskaya, T. I Tugay, L. V. Artyskova, L. T. Nakonechnaya & J. Dighton (oral presentation)

An applied model for macro-fungi conservation: fungal management in U.S. National Parks. E. S. Barron & J. Dighton (oral presentation)

Biological activity of the microscopic fungi isolated from the 10-km alienation zone of the Chernobyl Nuclear Power Plant. J. Dighton, T. I. Tugay, N. N. Zhdanova, A. I. Vasilivskaya, V. A. Zheltonozhsky (poster presentation)

Dynamics and structure of the phylloplane fungal community of *Vaccinium macrocarpon* (American cranberry) under different agricultural management regimes. S. S. Nix & J. Dighton (poster presentation).

South Jersey Nursery Meeting: Nov 13 2007 ‘ Mycorrhizae and their function’ Rutgers NJAES

2008

New Jersey Nursery and Landscape Association South Jersey Growers Conference ‘Update on Rutgers University Research and Extension Activities related to the Development of Nutrient Management Practices for Container Grown Crops Using Naturally Occurring Mycorrhizal Fungi’. Gladis Zinati and John Dighton, Milville, NJ Feb 29.

The world beneath us: Bowman’s Hill Wildflower Preserve Winter Seminar Series, Feb 10

Fungi in Ecosystems: to the Boston Mycological Club April 7

Litter decomposition the role of fungi and climate influences on spore dispersal: Harvard Herbarium seminar series April 8

(Keller, D.H. 2008. Demographics and seasonal habitat use of white catfish (*Ameiurus catus*) and channel catfish (*Ictalurus punctatus*) in the Delaware River estuary. Oral presentation. American Fisheries Society, 138th Annual Meeting, August 17-21, 2008, Ottawa, Canada.)

Dec – Nitrogen deposition effects on mycorrhizae and interactions between ionizing radiation and fungi – to METLA Vantaa (invited paper)

2009

Fungal interactions with radionuclides: are fungi autotrophs? Microbiology at Rutgers 3rd Annual mini-symposium (invited paper) Jan 29 – 30.

Fungi – 20th Annual Pinelands Short Course, Burlington County College March 7 2009

Life Beneath Us: The Ecology of Soil – Garden Wise; Penn State Cooperative Extension, York, PA, March 14 2009

The effect of disturbance on soil nutrients and plant species composition, D. M. Gray & J. Dighton Poster presentation Soil Ecology Society meeting Burlington VT July 12-15 2009

TEMPORAL DYNAMICS OF THE MICROBIAL RESPONSE TO A TWO-YEAR RAIN EXCLUSION
Landesman, William J. and J. Dighton Soil Ecology Society meeting Burlington VT July 12-15 2009

EFFECTS OF LEAF LITTERS ON THE ECTOMYCORRHIZAL FUNGAL COMMUNITY AND SOIL FAUNA
IN PITCH PINE MESOCOSMS. Dighton, John, L. Jonsson, J. Lussenhop Soil Ecology Society meeting Burlington
VT July 12-15 2009

LEAF LITTER CHEMISTRY CHANGES DUE TO BURNING Lammers Kristin, J. Dighton, G. Arbuckle-Keil
Soil Ecology Society meeting Burlington VT July 12-15 2009

Insect herbivory influence on plant and soil N, D. M. Gray, J. Dighton, K. L. Clark, N. Skowronski & A. Kornbluh.
Poster at BIOGEMON, Helsinki University, June 29 – July 3 2009.

2010

Pyrolysis of New Jersey pinelands leaf litter, Towey, J., Arbuckle-Keil, G. & Dighton, J. oral presentation to Eastern Analytical Symposium and Exposition (presented by JT).

Effect of changing precipitation patterns on the soil nitrogen cycle in the New Jersey Pinelands, Landesman, W. & Dighton, J. ESA August 2010 Pittsburg PA. (presented by WL).

2011

IMPACTS OF FOREST POST THINNING RESIDUES ON SOIL CHEMISTRY, FAUNA AND ROOTS:
PROBLEMS OF RESIDUE REMOVAL IN FINLAND. Maghirang, Melanie, Smith, S., Malcolm, K., Johnson, W.,
Quast, L., Dighton, J. Helmisaari, H-S. Gray, D. Setala, H., Starr, M. Soil Ecology Society, Kelowna BC (paper
Maghirang)

CHANGING NJ PINE BARRENS FOREST TO AN ALTERNATE STABLE STATE: EFFECTS ON SOIL
PROPERTIES. Dighton, John. Gray, D., Geng, Y., Smith, S., Johnson, W. Soil Ecology Society, Kelowna BC
(paper Dighton)

Pinelands Plant Community Study. Gray, Dennis M., Swanson, J., Dighton, J. Soil Ecology Society, Kelowna BC
(Poster Dighton)

GEOMETRIC PATTERN DIFFERENCES OF COLLEMBOLA USING SCANNING ELECTRON AND
ATOMIC FORCE MICROSCOPY. Smith, Sarah, Saidel, W., Dighton, J. Soil Ecology Society, Kelowna BC
(poster Smith)

Atomic force microscopy and FTIR-ATR microspectroscopy reveals physical and chemical substrate changes at the
hyphal scale of resolution. Jennifer Oberle-Kilic, John Dighton, & Georgia Arbuckle-Keil MSA, Fairbanks Alaska
Aug 2011 (paper Oberle-Kilic)

2012

Pyrolysis of New Jersey Pinelands Leaf Litter Georgia A. Arbuckle-Keil, Sarah Janssen, Jinnie Towey Anstice,
John Dighton TAFDV Spring Symposium 2012 Recent Advances in Thermal Analysis and Rheology March 20,
2012 ASTM International West Conshohocken, PA

Effects of Forest Post Harvest Residues and Soil Disturbance on Soil Ecology John Dighton oral presentation at BIT's First Annual World Congress of Biodiversity in Xi'An, China April 25-28 2012 by invitation

'Response of ectomycorrhizal symbionts to mercury' John Dighton, Sharron Crane and Tamar Barkay oral presentation at the 7th International Symbiosis Society Congress in Krakow, Poland July 22-28 2012 – by invitation

2013

John Dighton, Amy Tuininga, Dennis Gray, Jennifer Krumins, Samantha Chapman 'Nitrogen Deposition and Mycorrhizas; Are Effects Soil dependent?' British Mycological Society Annual Meeting, Cardiff Wales, Sept 10 – 14 2013 – by invitation

Katalin Malcolm, Dr. John Dighton, Dr. Tamar Barkay 'The effects of mercury on phylloplane fungi and the role of fungi in the mercury cycle' British Mycological Society Annual Meeting, Cardiff Wales, Sept 10 – 14 2013 (Poster)

Katalin Malcolm, Dr. John Dighton, Dr. Tamar Barkay 'The effects of mercury on phylloplane fungi and the role of fungi in the mercury cycle' ICMGP Edinburgh, UK July 2013 (poster)

2014

Rebecca J Bachelier & John Dighton 'Preliminary survey of ericoid mycorrhizal associations and benefits to plant growth in the New Jersey pine barrens' Poster IMC (International Mycological Congress, Bangkok, Thailand, Aug 4 – 8 2015.

Katalin Malcolm, John Dighton & Tamar Barkay 'The influence of mercury on phylloplane fungal communities of *Vaccinium corymbosum*' Poster IMC (International Mycological Congress, Bangkok, Thailand , Aug 4 – 8 2015.

2015

Dighton & Gray 'Disturbance and resilience in forests: examples from New Jersey pine barrens' Invited keynote paper to EUFORIA (European Forest Research and Innovation Area), Rogla, Slovenia Aug 31- Sept 4 2015

Dighton 'Fungi in Ecosystem Processes' Invited keynote paper, AMC 2015 (Asian Mycological Congress) Goa, India October 7 – 10 2015