

Diane S. Henshel

Associate Professor

Indiana University School of Public and Environmental Affairs

1315 E 10th St., SPEA 340

Bloomington, IN 47405

dhenshel@indiana.edu; dhenshel@gmail.com

<http://www.indiana.edu/~spea/faculty/henshel-dianes%20.shtml>

EDUCATION

PhD Biomedical Sciences – Neuroscience, 1987
Washington University School of Medicine, St. Louis MO

BSc, BA Biology (BSc) and English (BA), 1978
Brown University, Providence RI

EMPLOYMENT

2009 – Present Director, Indiana University – SPEA – Moi University (“SPEA in Kenya”) Summer Program
Program Options: Environmental Impact Assessment (Kenya); Integrated Assessment of Environment, Public Health, Policy, and Society and Culture in Current Affairs in Kenya

1998 – Present Henshel EnviroComm Consulting, Owner and Sole Proprietor DUNS:072417228
Technical support for both government and communities addressing environmental contamination problems. We provide laboratory support as well as risk communication and risk assessment related services.

1992 – Present Indiana University, School of Public and Environmental Affairs
Associate (1998- Present) and Assistant (1992 – 1998) Professor
Director, Environmental Toxicology Laboratory (1992 – Present)
Courses taught: Environmental Toxicology, Risk Assessment, Risk Communication, Master’s level Capstone, Controversies in Environmental Health, Endocrine Disruption, Developmental Neurotoxicology, Introduction to Environmental Science
Research Foci:

- 1) Biomarker based research on the effects of pollutants on developing embryos, focus on neuroendocrine, liver, heart and kidney effects, correlating laboratory studies with field studies of environmentally exposed animals for purposes of supporting ecological risk assessments.
- 2) Characterization and evaluation of a non-invasive treatment that counteracts oxidative and energy stress-related chemical toxicity.
- 3) Development of landscape scale data mining, analysis and modeling techniques to link indicators of environmental exposure with population scale indicators of related health impacts.
- 4) *Teaching related Research: Development of methodologies to implement and evaluate multi-class, multi-disciplinary service learning components into classroom teaching.*

SELECTED RECENT ACHIEVEMENTS, SERVICE ACTIVITY

Ecological Risk Assessment State of the Practice Review Workshop 2006

US-Canada Intern’l Joint Commission Science Advisory Board & Workgroup on Ecosys Health (1997 – 2001)

National Research Council Committee on Assessment of Risks from Remediation of PCB-Contaminated Sediment (1999 - 2001)

Environmental Protection Agency Expert Panels (many)

Publications: 54 Peer reviewed articles, 2 books edited, 4 editor reviewed & book chapters, 129 abstracts of international/national/regional meeting presentations; 74 public talks

Mentored: 1 post-doctoral fellow, 8 PhD students (4 completed PhD), 29 master’s level research students (5 master’s theses), 42 undergraduates (3 honor’s theses), 8 high school students

SKILLS and other EXPERTISE

Risk Assessment

Toxicology with particular expertise in Developmental and Neuro-Toxicology, and Endocrine Disruption

Environmental Justice, Social Equity, and Sustainability issues

Risk and Technical Communication, teacher and practitioner

Trained Mediator and Facilitator

SELECTED ORGANIZATIONS (with highest office)

American Association for the Advancement of Science (AAAS), American Society for Testing and Materials (ASTM) Committee E47 on Biological Effects and Environmental Fate (*Vice Chair*), Association for Women in Science (AWIS; *President, Bloomington Chapter*), International Association for Great Lakes Research (IAGLR; *Life member*), International Society for Environmental Bioindicators (*President, editorial board*), Society of Toxicology (SOT), Society for Environmental Toxicology and Chemistry (SETAC; *President, Ohio Valley Regional Chapter*), Society for Neuroscience (SfN), Sigma Xi Scientific Honors Society (*Life member*)

SELECTED PUBLICATIONS

J. Lim, R.A. Sanders, A.C. Snyder, J.T. Eells, **D.S. Henshel**, J.B. Watkins III (2010) Effects of low-level light therapy on streptozotocin-induced diabetic kidney **J. Photochem. Photobiol. B: Biology** 9:105-110

B. Eskenazi, J. Chevrier, L. Goldman Rosas, H.A. Anderson, R. Bornman, H. Bouwman, A. Chen, B.A. Cohn, C. de Jager, **D.S. Henshel**, F. Leipzig, J.S. Leipzig, E.C. Lorenz, S.M. Snedeker, D. Stapleton (2009) The Pine River Statement: Human Health Consequences of DDT Use. **Environ. Health Perspec.** 117(9): 1359–1367.

Lim, J., Ali, ZM, Sanders, RA, Snyder, AC, Eells, JT, Watkins III, JB and **Henshel, D.S.** (2009) Effects of Low Level Light Therapy on Hepatic Antioxidant Defense Capabilities of Acute and Chronic Diabetic Rats. **J. Biochem. Molec. Toxicol.** 23(1):1-8

Lim, J., Sanders, R.A., Yeager, R.L., Millsap, D.S., Watkins III, J.B., Eells, J.T., **Henshel, D.S.** (2008). Attenuation of TCDD-Induced Oxidative Stress by 670nm Photobiomodulation in Developmental Chicken Kidney. **J. Biochem. Molec. Toxicol.** 22:230-9.

Yeager, R.L., Oleske, D.A., Sanders, R.A., Watkins III, J.B., Eells, J.T., **Henshel, D.S.** (2007) Melatonin as a principle component of red light therapy. **Medical Hypotheses.** 69(2):372-376.

Lim, J., DeWitt, J.C., Sanders, R.A., Watkins III, J.B., and **Henshel, D.S.** (2007) Suppression of endogenous antioxidant enzymes by 2,3,7,8-Tetrachlorodibenzo-*p*-dioxin-induced oxidative stress in chicken liver during development. **Arch. Environ. Contam. Toxicol.** 52(4):590-595.

Henshel, D.S., Aschner, M., Basu, N., Bowerman, W., Echeverria, D., Gilbertson, M., Ralston, N., Rumbold, D., Wolfe, M. (2007). New Bioindicators for Mercury Toxicological Assessment: Recommendations from the First International Bioindicators Roundtable. **Environ. Bioind.** 2(3):183-207.

Yeager, R.L., Lim, J., Millsap, D.S., Jasevicius, A.V., Sanders, R.A., Whelan, H.T., Watkins, J.B.III, Eells, J.T., **Henshel, D.S.** (2006) 670 nm Light Treatment Attenuates Dioxin Toxicity in the Developing Chick Embryo. **J. Biochem. Molec. Toxicol.** 20(6):271-8

Yeager, R.L., Oleske, D.A., Millsap, D.S., **Henshel, D.S.** (2006) Severe craniofacial malformations resulting from developmental exposure to dioxin. **Repro Toxicol.** 22(4):811-812

DeSmet, K.D., Paz, D.A., Eells, J.T., Wong-Riley, M.T.T., Henry, M.M., Buchmann, E.V., Connelly, M.P., Dovi, J.V., Liang, H.L., **Henshel, D.S.**, Yeager, R.L., Millsap, D.S, Lim, J., Gould, L.J., Das, R., Jett, M., Hodgson, B.D., Margolis, D., Whelan, H.T. (2006) Clinical and Experimental Applications of NIR-LED Photobiomodulation. **Photomed Laser Surgery** 24(2):121-128.

- Yeager, R.L., Franzosa, J.A., Millsap, D.S., Angell-Yeager, J.L., Heise, S.S., Wakhungu, P., Lim, J., Whelan, H.T., Eells, J.T., **Henshel, D.S.** (2006) Embryonic Growth and Hatching Implications of Developmental 670 nm Phototherapy – Dioxin Co-Exposure. **Photomed Laser Surgery** 24(3): 410-413
- DeWitt, J., Millsap, D.M., Yeager, R.L., Heise, S.S., Sparks, D.W., and **Henshel, D.S.** (2006). External heart deformities in passerine birds exposed to environmental mixtures of PCBs during development. **Environ Toxicol Chem** 25(2): 541-551
- Yeager, R.L., Franzosa, J.A., Millsap, D.S., Lim, J., Heise, S.S., Wakhungu, P., Whelan, H.T., Eells, J.T., and **Henshel, D.S.** (2006) Survivorship and Mortality Implications of Developmental 670 nm Phototherapy – Dioxin Co-Exposure. **Photomedicine and Laser Surgery** 24:29-32.
- Henshel, D.S.**, Sparks, D.W., Simon, T.P., and Tosick, M.J. (2006). Age Structure and Growth of Creek chub (*Semotilus atromaculatus*) (Mitchill) in PCB-contaminated streams in IN. **J. Fish Biol** 68:44–62
- Boeglin, M.L., Wessels, D., and **Henshel, D.S.** (2006). An investigation of the relationship between air emissions of volatile organic compounds & incidence of cancer in IN counties **Environ Res** 100:242-254.
- Henshel, D.S** and Sparks, D.W. (2006). Site-specific PCB-linked Interspecies Differences in Organ Somatic Indices. **Ecotoxicology** 15:9-18.
- Yeager, R.L., Franzosa, J.A., Millsap, D.S., Angell-Yeager, J.L., Heise, S.S., Wakhungu, P., Lim, J., Whelan, H.T., Eells, J.T., **Henshel, D.S.** (2005) Effects of 670 nm Phototherapy on Development. **Photomedicine and Laser Surgery** 23:268-272.
- DeWitt, J.C., Meyer, E.B., **Henshel, D.S.** (2005) Environmental toxicity studies using chickens as surrogates for wildlife: Effects of vehicle volume. **Arch Environ Contam Toxicol** 48(2):260-269.
- DeWitt, J.C., Meyer, E.B., **Henshel, D.S.** (2005) Environmental toxicity studies using chickens as surrogates for wildlife: Effects of injection day. **Arch Environ Contam Toxicol** 48(2):270-277.
- Henshel, D.S., DeWitt, J., and Troutman, A. (2002). Chicken Embryos for Teratology Studies, **Current Protocols in Toxicology**, MD Maines, ed. J Wiley and Sons, Sec. 13.4
- Custer, T. W., C. M. Custer, R. K. Hines, K., L. Stromborg, P. D. Allen, M. J. Melancon, **D. S. Henshel.** (2001) Organochlorine contaminants and biomarker response in double-crested cormorants nestings in Green Bay and Lake Michigan, WI, USA **Arch Env Cont Tox** 40:89-100
- A Risk Management Strategy for PCB-Contaminated Sediments** (2001) Committee on Remediation of PCB-Contaminated Sediments, National Research Council, National Academy Press, Washington, DC
- Boischio, A.A.P. and **Henshel, D.S.** (2000) Linear regression models on methyl mercury exposure during prenatal and early postnatal life among riverside people along the Upper Madeira River, Amazon. **Environmental Research Section A** 83(2): 150-61.
- Peden-Adams, M., Alonso, K., Godard, C., Skipper, S., Mashburn, W., Hoover, J., Charbonneau, C., **Henshel, D.**, Dickerson, R. (1998) Effects of environmentally relevant concentrations of 2,3,7,8-TCDD on domestic chicken immune function and CYP450 activity. **Chemosphere.** 37(9-12):1923-1939.
- Henshel, D.S.** (1998) Developmental and neurotoxic effects of dioxin and dioxin-like compounds on domestic and wild avian species. **Environ Toxicol Chem** 17(1):88 – 98
- Henshel, D.S.**, Martin, J.W., DeWitt, J.C. (1997) Brain Asymmetry as a Potential Biomarker for developmental TCDD Intoxication: Dose-Response Study. **Env Health Perspect**, 105:718-725

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1315 E 10th #340

Bloomington, IN 47405

dhenshel@indiana.edu

812 855-4556 P 812 855-7802 F

classwebs.spea,indiana.edu/dhenshel

EDUCATION:

Undergraduate

BS (Biology) 1978

BA (English) 1978

Brown University, Providence R.I.

Graduate

PhD (Neuroscience) 1987

Washington University, Biology and Medical Sciences Program, St. Louis, MO

Dissertation: Electrogenic responses of dissociated Muller (glial) cells from neonatal tiger salamander retina.

Post-doctoral

Washington University Medical School, Department of Anatomy, St. Louis, MO

Research Associate (Dr. Steven Rothman, supervisor), 5/87 - 12/87

University of British Columbia, Departments of Animal Science and Zoology,
Vancouver, British Columbia, Canada

Post-Doctoral Fellow (Drs. Kim Cheng and John Steeves, supervisors), 9/88 - 12/89

University of British Columbia, Department of Zoology, Vancouver, British Columbia, Canada

Research Associate (Dr. John Steeves, supervisor), 1/90 - 7/92

ACADEMIC APPOINTMENTS

Indiana University, School of Public and Environmental Affairs (SPEA), Bloomington, IN

Director, SPEA in Kenya Summer Program, 2009 – Present

Director, Environmental Toxicology laboratory, 1992 - Present

Associate Professor of Public and Environmental Affairs, 1998 - Present

Assistant Professor of Public and Environmental Affairs, 1992 - 1998

OTHER APPOINTMENTS AND PROFESSIONAL CONSULTANTSHIPS (POST-GRADUATE)

Sole Proprietor, Henshel EnviroComm, Bloomington, IN (1999 - Present)

University of British Columbia, Department of Zoology, Vancouver, British Columbia, Canada

Sessional Lecturer: Animal Physiology, 9/89 - 12/89

LICENSURE AND CERTIFICATION

Mediation Training:

Environmental Mediation (40 hour training)
Basic Mediation Skills (40 hour training)
Public Policy Mediation (40 hour training)
Community Conflict Resolution (40 hour training)
Victim Offender Conferencing (32 hour training)
Large Group Facilitation (9 hour training)

24 Hour HAZWOPER Certification (1993 - 1994, not updated)

PROFESSIONAL SOCIETIES

American Association for the Advancement of Science

American Society for Testing and Materials (Committee E-47 on Biological Effects and Environmental Fate) *First Vice-Chair* (1/98 - 12/03)
Chair: Subcommittee 47.09 Biomarkers (1992 - 1998); 47.92 Symposium Planning
Active Member: Subcommittees .02 Terminology, .04 Wildlife Toxicology, .12 Behavioral Toxicology, .13 Risk Assessment, .14 Risk Management, .90 Executive

Association for Women in Science, Bloomington, IN chapter
President (1994 - 1995, 1996 - 1998), *President-Elect* (1993 - 1994)
Past-President and Chair, Program Committee (1995 - 1996, 1998 - 1999)
Secretary (1999 - 2006)

International Association for Great Lakes Research, *Life member*

International Society for Environmental Bioindicators / International Society for Environmental Indicators (renamed under my leadership)
President (2009 – 2012 [2 year term])
Editorial Board (2006 – Present)
Program Committee, International Conference on Environmental Bioindicators (2006, 2008, 2009, 2010, 2011)
Conference Coordinating Committee (2005- Present)
Chair, Transition Team – coordinating transition of journal to online free access (2009 -)

National Association of Environmental Professionals (NAEP)
NAEP Indiana Chapter *Steering Committee and Vice-President* (1996 - 1998)

New York Academy of Science

Sigma Xi, the scientific research honors society, *Life member*

Society for Environmental Toxicology and Chemistry (SETAC);
Ohio Valley SETAC (1993- Present); Pacific Northwest SETAC (1990-1994)

Board Member, Ohio Valley SETAC (1995 - 2001; 2003 - 2005)
President, OVSETAC (1999-2000), President-Elect, OVSETAC (1998-1999),
Past-President, OVSETAC (2000-2001);
Coordinator, OVSETAC Annual Meeting (2008)
National: Education Committee (2002 - Present); Program Committee (2006-2007);
Government Affairs Committee (1999 - 2001)

Society for Neuroscience

Society of Toxicology

Pacific Northwest Association for Toxicology (1990-1993)

Specialty Sections: Developmental and Reproductive Toxicology, Neurotoxicology

Indiana University Graduate Faculty; *Full Member*

HONORS and AWARDS

International Society for Environmental Bioindicators Certificate of Appreciation, 2008

Indiana University Trustees Teaching Award, 2008

Indiana University Scholarship of Teaching and Learning Leadership Award, 2006

Society of Environmental Toxicology and Chemistry: Presidential Citation, 2006

Indiana University School of Public and Environmental Affairs Teaching Award, 2005, 2008

American Society for Testing and Materials Committee E47:

Outstanding Service Award of Appreciation, 2003

Exceptional Service Award, 1996

Indiana University Outstanding Junior Professor Award 1997

Listed in **Who's Who in the World** 1995 -

Listed in **Who's Who in American Women** 1995 -

Listed in **Who's Who in American Education** 1994 -

Listed in **Who's Who in the Midwest** 1994 -

Listed in **Who's Who in Science and Engineering** 1992 -

Listed in **Who's Who in Medicine and Healthcare** 1997 -

Listed in **Who's Who in the West** 23rd, 24th Edition, 1992/1995

New York State Regents Scholarship, 1973

National Merit Scholarship - Letter of Commendation, 1973

TEACHING ASSIGNMENTS

Indiana University, School of Public and Environmental Affairs, Bloomington, IN

1. E300 Introduction to Environmental Science (1993)

2. E311 Introduction to Risk Assessment and Risk Communication (1999, 2001, 2006
[F,S in 2006], 2007, 2008, 2009, 2010, 2011)

3. E400/E555/E441/E541/H455/V450 Toxicology and the Media//Controversies in
Environmental Health (1993, 1995, 1997, 2007, 2008, 2009)

4. E412/E512 Risk Communication (1994, 1996, 1998, 2001, 2004, 2006, 2011)

5. E410 Undergraduate Introduction to Environmental Toxicology
(1994 - 1998, 2000-2003, 2005, 2007)

6. E520 Graduate Environmental Toxicology (1992 - 1998, 2000-2005, 2007-2009)

7. E560 Risk Decision Analysis (1995, 2008, 2009, 2010, 2011)
8. V600 Environmental MSES/MPA Capstone (2002, 2005, 2006, 2010)
9. E680 Seminar in Environmental Science (1993 - 1995, 1998, 2005)
10. V691 Workshop in Public Policy (2004)
11. E710/E555 Topics Courses: Dioxins and Endocrine Disruption (1997), Ecological and Aquatic Toxicology (2003), Developmental Neurotoxicology (2005) Kenya Today (2010, 2011)
12. SPEA in Kenya Summer Program: Environmental Impact Assessment in Kenya (2010, 2011)
13. Environment 99, SPEA sponsored High School Summer Program

Readings Courses

Environmental Equity and Toxicology (Lisa Harris), Spring 1993
 Neurotoxicology (Ana Boischio), Spring 1993
 Risk Assessment (Kara Morgan), Spring 1994
 Biomarkers & their use in Environ. Impact Assessment (Minerva Mercado), Fall 1995
 Risk Communication and Hazardous Waste Siting (David Murphree), Fall 1995
 Risk Assessment and Environmental Regulations (Mary Beth Schmucker), Fall 1995
 Dioxins and Environmental Estrogens (Chris Gabrys), Spring 1997
 Environmental Pollutants and Societal Implications (Bill Price), Fall 1997
 NIR Light Therapy: Effects of Dioxin on ATP Synthesis (Jill Franzosa), Spring 2005
 NIR Therapy: Reduction in Embryo Mortality (Ronnie Yeager), Spring 2005, Fall 2006
 NIR Therapy: Biochemical Oxidative Stress Impacts On Embryonic Kidney And Liver (Jinhwan Lim), Spring, Summer, Fall 2006
 Analysis of Deformities in the Yellowstone National Park Region (Mary Ruhter), 2007
 Ecotoxicology (Mary Ruhter) Spring 2008
 Environmental Justice and Brownfields (Anne-Marie Hart), Spring 2007
 Risk Assessment and Homeland Security (Cheryl Sullivan), Fall 2008
 African Ecology (Melissa Greulich), Spring 2009
 Kenya / Public Policy (Justin Wild) Spring 2010

Laboratory Training Courses

L490 / E490 Undergraduate Laboratory Biology Research (Fall 1995 - Present, almost every semester including many summers) Range: 1 - 8 L490/E490 students per semester, including most summers

Guest Lectures

E375 Techniques of Environmental Science, Spring 2010 (2 weeks, including labs)
 E162 Environment and People, Fall 2008
 I202 Health, Environment, and Policy, Spring 2008
 V252 Career Development and Planning, Spring 2007
 E363 Environmental Management, Spring 2007, 2008, 2009, 2010
 V691 Workshop in Public Policy, Spring 2004
 L105 Agricultural Biotechnology, Spring 2000, 2001
 E200 Energy Technology and Policy, Spring 1993
 E272 Environmental Science, Fall 2002, Spring 1999, 2003, 2004
 E300 Introduction to Environmental Science, Fall 1993
 V520 Environmental Policy Analysis, Spring 1995
 V550 Negotiation and Dispute Resolution for Public Affairs, Fall 1995

E560 Risk Decision Analysis, Spring 1993, 1994, 1997
E560 Risk Decision Analysis, Co-instructor for special session at the Higher School of Economics, Moscow, Russia 2006
V664 Seminar in Policy Analysis, Spring 1998

Special Teaching - Related Activities

Moi University – Environmental Impact Assessment, co-instructor, Summer 2010, 2011
Indiana University – Scholarship of Teaching and Learning lecture series participant
Presenter March 2008 (Food for Thought Project)
Indiana University – Bloomington Environmental Literacy and Sustainability Initiative:
- Coordinating Committee, 2005 - Present
- Institutional Structure Definition Subcommittee, 2004 – Present
- Participant and Presenter in the Teaching Freshman Environmental Literacy Seminar and Workgroup, 2003 – Present

University of British Columbia, Department of Zoology, Vancouver, B.C., Canada
Lecturer/Course Master: Animal Physiology, Fall 1989
Guest Lectures: Environmental Physiology, Fall 1990

University of British Columbia, Faculty of Agricultural Sciences, Vancouver, B.C., Canada
Guest Lectures: Animal Genetics, Spring 1989

SERVICE

University Committee and Organization Service

Indiana University Level Service

Health Engagement Program Advisory Committee, 2011 -

IUB Campus Level Service

Bloomington Faculty Council (BFC), 2010 - (Elected position)

BFC Research Affairs Committee, 2005 – 2011

BFC Agenda Committee, 2011 - (Elected position)

BFC Fringe Benefits Committee, 2010 -

Subcommittee on the Health Engagement Program Initiative, 2010 -

School of Public and Environmental Affairs Budget Committee, 2011

Transportation Policy Advisory Committee, 2008 - 2009

Sustainability Task Force and Office of Sustainability, 2007 - Present

Workgroups:

Executive and Steering Committees, 2010 -

Campus Green Team, 2009 –

Resource Recovery and Solid Waste, *Academic Co-chair*, 2010 –

Hoosier to Hoosier (end of year recycling initiative), *Steering, volunteer coordination, collections, finance committees*, 2010 -

Sustainability Intern Applications Reviewer (2x/yr), 2007 - Present

Environmental Quality and Land Use, 2007 – Present

Education, Outreach and Student Engagement, 2007 – 2008

Ad Hoc Sustainability Preamble writing group, 2007

Indiana Daily Student Opinion Forum member, 2005

Grant-in-Aid Review Committee, 2005
Council on Environmental Stewardship, *SPEA representative*, 2003 - 2006
Women in Science Program (WISP) Advisory Board, *Member*, 2000 - 2002
 WISP Fellowship Selection Committee, 2001
Ad Hoc SPEA/COAS/Sch.Ed. Committee on Science Outreach, *Member*, 1998-1999
Sustainable Development/Environmental Justice Workgroup – IUB *Chair/Coordinator*
 Sponsored by SPEA and the Global Change Center, 1996 - 1997
Summer Faculty Fellowship Selection Committee, *Member*, 1994
Women in Science and Engineering Campus Team, *Member*

Peer Mentoring

- Susan Chebet, Visiting Scholar, 2010
 Moi University, Anthropologist and Director of Outreach and Extension
 Eldoret, Kenya
 Projects: Development of joint IU-SPEA-Moi University Summer Program
 and Workshop to develop practical recommendations for reducing violence
 in Kenya (Recommendations presented at the Peace and Reconciliation
 Symposium , May 2010, Eldoret, Kenya)
- Igor Yakymenko, Fulbright Fellow, 2008-2009
 Bila Tserkva State Agrarian University, *Vice Rector, Head*, Physics
 Department; Bila Tserkva, Ukraine
 Research Topic: Environmental Impacts of Non-ionizing Electromagnetic
 Radiation

Student Service (Mentoring, Advising)

Post-Doctoral Level

- Jamie DeWitt, 2003 - 2004
 Research Topic: Evaluation of heart deformities in passerines exposed to
 PCBs (Funded by the USFWS)

Doctoral Level

- PhD Thesis Supervisor
- Jinhwan Lim, 2005 – 2009
 Thesis Topic: Reduction in dioxin-induced oxidative stress in embryonic
 kidney by NIR light treatment, an anatomical, biochemical and
 histological analysis
- Ronnie Yeager, 2004 – 2007
 Thesis Topic: Reduction in dioxin-induced embryo mortality by NIR light
 treatment
- Jamie DeWitt, 1995 – 2003
 Thesis Title: Dioxin effects on avian neural development
- Ana Boischio, 1992 - 1996
 Thesis Title: Mercury exposure and risk assessment of indigenous people in
 the Amazon

PhD Student Supervisor (pre-thesis work)

- Phoebe Wakhungu, 2004 – 2007
- Jill Franzosa, 2004 - 2005
- Kyoungsun Heo, 2000 -
 Research Topic: Correlating Health risks with environmental exposures in
 Indianapolis, IN
- Ponnappa Paleyanda, 1993 - 1994

PhD Student Collaboration

- Autumn Workman, 2000 - 2004

PhD Committees

- Nathan Murphy (Dept of Biology, IUB), 1997 - 2006
- Mark Kaldahl (HPER, IUB), 2001 - 2003

PhD External Examiner

- Lori Smith (College of Agricultural Sciences, University of British Columbia,
 Vancouver, BC), 2003
- Pettina Love, (La Trobe University, Bundoora, Victoria, Australia 3086), 2010

Other Doctoral Research Supervision

- Eric Roush (Optometry, Independent Research Supervisor), 2000

Masters Level

Advisor, MSES Environmental Chemistry, Toxicology and Risk Assessment
 Concentration, 2000 - Present

Advisor, MSES/MPA Joint Program, 2001 - Present

Advisor, MSES Hazardous Waste Concentration, 1994 – 1999

Conceived and co-mentored Lilly Fellows Project (with D. Backhus), 1993-1994
 Students: Kyle Dreyfus, Wesley Butch

MSES student research internship sponsor/mentor/advisor (for SPEA internship
 requirements)

Students: Kris Benson, Heidi Burns, Chris Fox, Chana Frenkel, Chris Gabrys,
 Deborah Millsap, Mike Tosick, Ethel Wilkerson, Ronnie Yeager, Phoebe
 Wakhungu (MPA)

MSES Thesis Supervisor

- Mary Ruhter, 2007 - 2008

- Deborah Millsap, 2004 - 2008

- Ethel Wilkerson, 2000 - 2001

 Thesis Title: Effects of PCBs on snapping turtle development

- Heidi Burns, 1997 - 1998

 Thesis Title: Dioxin effects on thyroid development

- Chana Frenkel, 1993 - 1995

 Thesis Title: Freshwater indigenous snails as indicators of heavy metal
 exposure

MSES/MPA Laboratory/Database Mining/Research Supervisor

- Elliott Hayden, 2010 - 2011
- Michael Herbert, 2009
- Mary Ruhter, 2007 - 2008
- Jenny Hoponick, 2006
- Nate Visser and Paul Mellilo, 2005-6
- Deborah Millsap, 2004 - Present
- Ronnie Yeager, 2002 - 2004
- Angela Roark, 2002 - 2003
- Tanvi Lal, 2002 - 2003
- Jeanine Klump, 2002 (Post-graduate work)
- Phoebe Wakhungu, 2001 - Present
- Denise Wessel, 2001 - 2002
- Loan Pham, 2001 - 2002
- Stephanie Snider, 2000 - 2001
- Michael Tosick, 1999-2001
- Ethel Wilkerson, 1999-2001
- Michelle Kearns, 1999
- Jill Hoffman, 1999
- Richard Lawrence Ault, 1998 - 2000
- Blake Boling, 1998 - 1999
- Heidi Burns, 1997
- Aaron Coby, 1998
- Chris Gabrys, 1996
- Chris Fox, 1995 - 1996
- Kristen Benson, 1995
- Ying Lam, 1995 - 1996
- J. William Martin, 1993 - 1995
- John Weed, 1993 - 1994
- Kara Morgan, 1993 - 1994
- Karen Rapp, 1994 -1995

Service-Learning Research Project Supervisor/Advisor (Sample Projects)

Alternative Transportation Plan Risk and Cost-Benefit Evaluation (2009)

Client: Monroe County Council

Students:

(Risk) Max Cui, Courtney Bonney, Craig Harper, Zeynep Altinay

(Cost Benefit Analysis) Younghua Zou

Bloomington, IN PCB Ecological Food Web Risk Analysis (2009, 2011)

Class: E560

Client: US Fish and Wildlife Service Bloomington Field Office (Dan Sparks, Contact)

Students 2009: Kathleen Wilson, Matt Johnston, Christine Carmichael

Students 2011: Emma D'Arcy, Amy Sparrow, Garland Waleko, Matt Bono

Illinois Environmental Protection Agency Exposure Analysis (2010)

Class : E560
Client : IL EPA employees
Students : Rose Galer, Laura Knudson, Sean Weatherwax, Marcus Aguilar

McDoel Switchyard, Bloomington, IN Ecological Risk Analysis (2010)
Class: E560
Client: Bloomington Parks and Recreation
Students: Nancy Rachlis, Kate Mauldin, Emily Kerr, Shaun Ziegler

Montana Bitterroot Valley Deformities Investigation (2006 – 2009, 2011)
Classes: E520, E560
Client: Judy Hoy
Students:
(Toxicology, Risk 2006, 2008) Mary Ruhter, Kali Frost
(Risk 2009) Sarah Bielski, Elspeth Manwaring, Tony White, Jonny Wong
(Risk, Landscape Scale Analysis 2011) Elizabeth Mortenson, Joe Pagnusat

Patoka National Wildlife Refuge Ecological Risk Assessment (2009, 2010, 2011)
Classes: E520, E560
Client: US Fish and Wildlife Service Bloomington Field Office (Tom Simon, Contact)
Students:
(Macroinvertebrate Water-sourced Risk 2010) Joanna Allerhand, Jamie Panunzio, Paul Levy, Elliot Hayden
(Fish Risk 2010) Luci Herrick, Brian Wright, Yuning Ma, Alex Walter
(Crayfish Risk 2009) Thomas Parr, Moira Rojas, Therese Tepe, Sarah Bradbury
(Crayfish Toxicology 2009) Farah Abi-Akar, YunChing Wang

Southwest Chicago Cancer Cluster Investigation (2006 – 2008, 2010, 2011)
Classes: E520, E560
Client: Tricia Krause
Students:
(Toxicology, 2006) Mark Loomis, Laura Heil
(Risk 2008) Mark Loomis, Laura Heil, Nick Hart
(Risk 2010) Farah Abi-Akar, YunChing Wang, Devin Hartman
(Risk 2011 – Orland Park) Crystal Chadwick, Shu-Jen Lin
(Risk 2011 – Crestwood) Palupi Wikandari, Jeff Bainter, Pam Rickley

Graduate Student Employees under my supervision, hired through Indianapolis Urban League Environmental Coalition EPA EJ Grant
- Joe Calavita, 1999 - 2000
(GIS Database Analysis and Risk Assessment Coordinator)
- Antwuan Wallace, 1999 - 2000
(Community Outreach Coordinator)

Undergraduate Level

Academic Advisor, Environmental Science Undergraduates, 1994 - Present
Academic Advisor, University Division, 2002 - Present

Undergraduate Minority Summer Research Program

Students: Rose Marie Casanova (1998)

MEDIC/B Undergraduate Summer Research Program

Students: Audrea Troutman (2001)

Undergraduate student research sponsor (L490, E490, Honors, Undergraduate Research Partnerships [URPS] grants)

Students: Cathy Allen (Mayer), Omar Bhatti, Mary Bozinovski, Rebecca Carpenter, Shannon Carr, Anne Katherine Henry, Jennifer Jackson, Ashley Jasevic, Michelle Linet, Kelly Knopp, Thomas Mampilly, Erin Meyer, Jennifer Mullins, Stacey Noel, Deanna Oleske, Amy Pankoke, SangBi Park, Asish Patel, Ashley Perkins, Ashan Pieris, Kelly Pierle, Amanda Posto, Katherine Shortt, Ethel Wilkerson, Eric Zell

Undergraduate Student Research Supervisor (L490, Honors Theses, and other independent research projects)

- Nick Cooper and Alex Jackson (2011) Sand habitat analysis in the Indiana Dunes National Lakeshore
- Blair McCall (2011) Toxicity analysis of sand pore water contamination the Indiana Dunes National Lakeshore
- Marie Buckingham (2010) Honors Thesis
Environmental Justice analysis of CSO remediation progress in Indianapolis, IN
- Skyler Roeshot (2010) Honors Thesis
Ecological risk assessment of Centralize and Decentralized Wind Energy
- Katherine Shortt (2009 – 2010)
Effects of PCBs on Creek Chub liver and gonad histology
- Elliot Hayden (2008 – 2009) Honors Thesis
Carbon Capture and Criteria Air Pollution: Using the Proposed Integrated Gasification Combined Cycle (IGCC) Power Plant in Edwardsport, Indiana to Examine the Regulatory Consequences of Carbon Capture Technology
- SangBi Park, 2008 – 9 (E490)
Penetration of LED red light through human tissue.
- Deanna Oleske, 2006 – 7 (L490)
Effect of red light therapy on melatonin levels in PCB-treated chicks
- Asish Patel, 2006 – 7 (L490)
Effect of red light therapy and PCBs on ATP levels in chest muscle.
- Ashley Jascevicus, 2003 – 2006
Red light therapy effects on PCB-induced heart malformations.
- Corey Hansen, 2003 – 2005
Red light therapy effects on PCB-induced brain asymmetry
- Eric Zell, 2001 - 2003 (BSES Research)

- Effect of PCBs on fish organ weights
- Omar Bhatti, 2001-2002 (L490)
 - Effect of *in ovo* exposure to PCBs on inner ear and palate development
- Anne Katherine Henry, 2000 - 2001 (BSES Research)
 - Behavioural analysis of hatchlings exposed to PCB126 *in ovo*
- Mary Bozinovski, 1997 - 1998 (L490, URPS grants)
 - Histological effects of TCDD on bursal development
- Shannon Carr, 1998 - 2000 (L490, URPS grants)
 - Effects of *in ovo* TCDD on avian lung development
- Ashan Pieris, 1997 - 1998
 - Histological evaluation of TCDD exposure on the developing pancreas
- Thomas Mampilly, 1997 - 1998
 - Effects of TCDD on the developing adrenal gland
- Ethel Wilkerson, 1997 - 1998 (L490 and URPS grants)
 - The effects of antioxidants on the early embryonic teratogenic effects of TCDD: a study of changes in the brain, heart and visceral arches
- Kelly Pierle, 1997
 - Effects of *in ovo* exposure to TCDD on liver development
- Amanda Posto, 1996 (L490, URPS and Honors grants)
 - The effects of antioxidants on the early embryonic teratogenic effects of TCDD: a study of changes in curvature, embryonic stage, and limb development
- Rebecca Carpenter, 1996 - 1997 (L490, URPS grants)
 - Teratogenic effects of embryonic exposure to PCB126 at E0 and E4
- Amy Pankoke, 1996 - 1997 (L490, URPS grants)
 - Immunohistological effects of *in ovo* exposure to TCDD on the pituitary
- Jennifer Jackson, 1996 - 1997 (L490, URPS grants)
 - Research Topic 1: Growth and developmental effects of *in ovo* exposure to TCDD versus PCB126
 - Research Topic 2: Effects of heavy metals, alone and in combination, on early sea urchin development
- Cathy Allen (Mayer), 1995 - 1996 (L490, URPS grants)
 - Effects of antioxidants on the TCDD-induced abnormalities in early avian embryos
- Michelle Linet, 1995 - 1996 (L490, URPS grants)
 - Histological effects of *in ovo* TCDD exposure on avian gonadal development
- Kelly Knopp, 1995- 1996 (L490, URPS grants)
 - Physiological responses of hatchlings exposed to TCDD *in ovo*
- Erin Meyer, 1995 - 1996 (L490 grant)
 - Behavioral changes induced by *in ovo* TCDD and PCB126 exposure
- Stacey Noel, 1995 - 1996
 - Effects of *in ovo* exposure to TCDD on heart development

Undergraduate Student Research Supervisor (paid employees)

- Katherine Shortt, 2010
- Deanna Oleske, 2006 - 7
- Jessica Stergar, 2002

- Jeremiah Brown, 2001 - 2003
- Jenny Mullin, 1999 - 2002
- Ursula Vaughn, 2000-2002
- Ayana Russell, 1999
- Steve Bozinovski, 1999 - 2000
- Pete Wesson, 1998
- Melonie Silvonek, 1998
- Ethel Wilkerson, 1997 - 1998
- Megan Weber, 1997 - 1999
- Amy Fong, 1997
- Eric Roush, 1997 - 1999
- Rebecca Jeong, 1996 - 1997
- Kristen Benson, 1995
- Cathy Allen (Mayer), 1995

High School Level

Explorations of Careers in Science, High School Summer Science Institute

Students: Megan Weber, Charity Nelson (1994);
 Will Wilson, Samson Chan (1995);
 Kristen Nailor, Seneca Rosenberg (1996);
 Samantha McMillan (1997)

Bloomington High School North Research Project: Evan Millsap (2006-7)

Public Service

International:

Member, Indiana University – Moi University Partnership Steering Committee, 2009 -

Co-Teacher (Risk Assessment 40 hr class) and Lead Research Dissemination Team Member, USAID funded project with the Higher School of Economics (HSE), Moscow, Russia. (Project: 2005-2007; Trips: October 2005, March, June 2006).
 Project Goal: To help the HSE develop into a Western-Style Policy Think Tank. (M. Pirog, PI)

Commission for Environmental Cooperation, Invited participant as public representative to public meeting of the Sound Management of Chemicals Working Group. San Diego, CA, March 2005.

Participant, Trip to the North West Academy of Public Administration (NWAPA), St. Petersburg, Russia. Participated in two-week long trip to NWAPA and affiliate academy in Vyborg, Russia. Delivered lectures, interviewed prospective Russian visitors to the US, participated in NWAPA-sponsored International Workshop on Public Administration and discussed possible future collaborations with science colleague from Vologda, Russia, and policy colleagues from Finland. University Partnership Agreement grant funded by the US State Department (J. Mikesell, PI). November, 2003

Member, Science Advisory Board (SAB) of the International Joint Commission on the Great

Lakes (IJC), 1997 - 2001, and of the IJC-SAB Workgroup on Ecosystem Health, 1997 - 2002

- *Planning Committee and Presenter*, International Joint Commission on the Great Lakes Science Advisory Board's Workgroup on Ecosystem Health: Workshop on Methodologies for Community Health Assessment in Areas of Concern, October 4-5, 2000, Windsor, ONT
- *Facilitator*, Discussion on Community Responsiveness of Lakewide Management Plan Process, IJC Biennial Meeting, Milwaukee, WI, September, 1999
- *Planning Committee and Facilitator*, Workshop on "Great Lakes Lakewide Management Plans" Windsor, ONT, Canada, February 1999

Voting Member of the Multiple Stakeholder's Working Group on Pulp and Paper Management in British Columbia, Canada, 1991-1992

Member, Great Lakes Wildlife Bioeffects Group, 1992- 1998

Member, UBC Hazardous Waste Research Group of the B.C. Sustainable Development Research Initiative, Vancouver, BC, Canada, 1990-1992

National

Board of Directors, Alliance for Public Health and Associates, Inc. (ALPHA), a new not for profit being organized by Dr. Chris De Rosa, formerly Director Division of Toxicology and Environmental Medicine, Agency for Toxic Substances and Disease Registry, 2009 –

Adjunct Member, National Academy of Public Administration Standing Panel on Social Equity, 2000 - Present

Invited Expert, EPA Science Advisory Board Ecological Processes and Effects Committee Workshop on Ecological Risk Assessment – An Evaluation of the State-of-the-Practice, Washington, DC, Feb 7-8, 2006

Facility Review Team, National Oceanic and Atmospheric Administration (NOAA) Northwest Research Science Center, July 2005

Grand Jury Judge, 2002, and *Society for Toxicology and Chemistry Special Awards Judge (team leader)*, 2003, 2004, 2006, Intel Science and Engineering Fair

Member, National Research Council Committee on Assessment of Risks from Remediation of PCB-Contaminated Sediment, 1999 - 2001

Environmental Protection Agency Invited Expert activity:

Food Quality Protection Act (FQPA) Science Advisory Panel (SAP), 1998 -
EPA Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Endocrine Disruptors Screening and Testing Advisory Committee (EDSTAC) Report Review Panel, 1998 - 1999.

Short Course Instructor:

"Biomarkers: Potential Neurotoxicological Biomarkers, Guidelines for Future Biomarkers Development" (2 sections of the course) Society for Environmental

Toxicology and Chemistry National Meeting Washington, DC, November 17, 1996

“Ecological Risk Assessment” (section on Effects Assessment)

Society for Environmental Toxicology and Chemistry, Ohio Valley Chapter Regional Meeting Richmond, KY, June 6 - 7, 1996

Invited panel member, EPA Workshop on Environmental Estrogens and Risk Assessment
Panels: Neurotoxicology and Dose-Response Relationships Raleigh, N.C., April 10 - 14, 1995

Presented an Invited Statement before the National Advisory Committee for Environmental Policy and Technology Superfund Evaluation Committee, September 20, 1993

American Society for Testing and Materials (ASTM), Committee E47 Biological Effects and Environmental Fate Symposium-Related Coordination Service

- *Symposium Co-Chair*, Fifth Symposium on “Environmental Toxicology and Risk Assessment: Biomarkers and Risk Assessment,” Denver, CO April 3-5, 1995

- *Symposium Chair*, Eighth Symposium on “Environmental Toxicology and Risk Assessment: Standardization of Biomarkers for Endocrine Disruption and Environmental Assessment,” Atlanta, GA April 19 - 23, 1998

- *Symposium Organizing Committee*, Special Symposium on “Modelling and Measuring the Vulnerability of Ecosystems at Regional Scales for Use in Ecological Risk Assessment and Risk Management,” Co-sponsored by the US Environmental Protection Agency Seattle, WA, August 17 - 20, 1998

- *Editorial Advisory Committee* for Ensuing Special Issue of Environmental Toxicology and Chemistry, 2000

Volunteer scientist, Science by Mail, 1991 - 1997

State:

Southern Indiana Renewable Energy Network, 2008 - Present

Indiana Environmental Justice Advisory Committee, 1999 - Present

Indianapolis Urban League:

Environmental Coalition (IULEC) *Charter Member, Steering Committee Member*,
1997 - Present

Program Committee, *Member*, 2002 - 2004

Indiana Faith-Based Global Climate Change Campaign, *Steering Committee Member*, 2000 - 2003, *co-coordinator for two public education workshops*: 2001, 2002

Indiana Interfaith Environmental Task Force

Board of Directors, Charter Member, 2004 - Present

Indiana Junior Academy of Science Outstanding Junior Scientist, *Abstract Reviewer and Judge*, 2002 - 2010

Jefferson Proving Ground Restoration Advisory Board (DOD Funded) /
Save the Valley Technical Support Team
Technical Support, 1999 – Present
EPA/IDEM/DOD/RAB Remedial Investigation/Feasibility Study Review Team, 2001
- 2003

Army Corps of Engineers coordinated *Ad Hoc* Committee on air monitoring for the proposed
Indiana Harbor Canal Dredge Project, 2001 - 2002

Indiana Core 40 High School Environ Science Competency-Writing Team, 1997

Indiana Brownfield's Policy Review Group, 1995

Local:

Bloomington Environmental Commission, 2010 -

Bloomington 350 (the local part of an international organization to raise awareness about
Global Climate Change) *Steering Committee*, 2009

Panel convener, coordinator for Bloomington 350, 2009

Topic: The Best Approaches for Combatting Global Climate Change: Short and Long Term
Perspectives

Panelists: A. James Barnes, Bennet Brabson, JC Randolph, Kenneth Richards

Introducer: William Brown (I was otherwise disposed)

Center for Justice and Mediation / Victim Offender Remediation Program

Senior Mediator, 2009 - Present

Volunteer mediator, 2004- 2008;

Education Committee, 2004 – 2008

Program Committee, 2007 - Present

Citizens Information Committee, Bloomington, IN, 1992 - Present

(Addresses and is the community contact point for the EPA with regards to the
Bloomington PCB sites)

Save Our Southside Neighborhood, Environmental Coordinator, 1999

Jackson Creek Middle School, Technology Committee Parent Rep, 1999 -2000

Rogers Elementary School, Library Volunteer and Math Club Coord., 1999 - 2001

Brownie Math and Science Days Volunteer, Tulip Trace Girl Scout Council

Pollution Room designer and coordinator, 1995, 1999

Biology room volunteer and planner, 1996-1998, 2000-2001, 2002, 2006

Bloomington Progressive Elementary School, Board member, 1993-1994

PROFESSIONAL ACTIVITIES:

Peer Review Activities

Editorial Board

Environmental Bioindicators Journal (now Journal of Environmental Indicators)
Bulletin of Environmental Contamination and Toxicology
Environmental Communication (2007 – 2009)

Peer Reviewing for Journals and Technical Publications

American Society for Testing and Materials (ASTM) Committee E47, Special
Technical Publications (STP)
Biochemical Pharmacology
BioScience
Bulletin of Environmental Contamination and Toxicology
Journal of Environmental Health
Environmental Health Perspectives
Environmental Health Perspectives Supplements
Environmental Monitoring and Assessment
Environmental Science and Technology
Environmental Research
Environmental Toxicology and Chemistry
Journal of Aquatic Ecosystem Health
Journal of Toxicology and Environmental Health
Neurobiology of Aging
Ohio Journal of Science
Toxicology and Applied Pharmacology
Toxicological Sciences

“Best Practices for Effective Public Involvement in Restricted Use Decommissioning of NRC Licensed Facilities”, submitted to DOD by the US Institute for Environmental Conflict Resolution, *Interviewee and Reviewer*

“Quantitative Dose-Response Modeling of Dioxins-Like PBTs in Laboratory and Field Studies of Avian Wildlife”, submitted to EPA by the Eastern Research Group Inc.

Grant Reviewer

Agence Nationale de Recherches
EPA Extramural Grants Program
EPA Intramural Grants Program
EPA Environmental Education Grants Program
EPA STAR Fellowship Program
March of Dimes, Basil O’Connor Fellowship Program
Sea Grant (Wisconsin Sea Grant Institute) Program
Army Corps of Engineers EDRC Program,
Hudson River Foundation
Indiana University Office of Sustainability Internships

Textbook Reviews/Review of Prospectuses

Handbook of Ecotoxicology, 2nd. Edition

Introduction to Environmental Toxicology by Landis and Yu (3 chapters)

Lectures/Presentations at Professional Meetings/Workshops/Symposia/Public Venues for which no published abstracts are available. (Presentations for which abstracts are published are listed under Publications at International/National Meetings)

- 4/10 *Convenor, Facilitator* Workshop on Models to Suggest for Implementation in Kenya to Decrease Youth Violence. Bloomington and Indianapolis, IN
- 10/09 *Presenter*, “Cutting your carbon footprint and living sustainably in Illinois”, Green Revolution Conference hosted by Living Lands and Waters, Peoria, IL
<http://www.livinglandsandwaters.org/GreenRevolution/docs/Diane%20Henshel%20-%20Carbon%20Footprint.ppt>
- 2/09 *Presenter*, Living sustainably, IUB College of Arts and Sciences Advisors
- 11/07 *Presenter*, Environmental Justice Panel, Indiana University (SPEA), Bloomington, IN
- 6/07 *Invited lecture*, Linking environmental exposures to health impacts, Old Dominion University, Norfolk, VA
- 4/07 *Invited lecture*, Developmental effects of contaminants: Implications and a glimmer of hope, Arizona State University, Phoenix, AZ
- 4/07 *Convener and moderator*, Earth week Panel on Environmental Mediation and Negotiation in Indiana, Bloomington, IN
- 4/06 *Invited Panelist Presenter*, Bhopal Then and Now, A Toxicological Travesty, Panel on Bhopal Today, IUB Association for India’s Development
- 3/06 *Invited lecture*, Environmental Endocrine Disruption, Calvin College
- 1/06 *Invited lecture*, DU and Public Policy, Franklin College, Franklin, IN
- 11/05 *Panelist Presenter*, Environmental Justice and Land Use: Transportation and Public Health, Workshop on Where Environmental Justice and Land Use Planning and Zoning Collide: A One Day Workshop for Local Officials, Chicago, IL; Albuquerque, NM
- 10/05 *Invited panel presenter*, Measuring Environmental Literacy and Sustainability Learning, Panel on Disciplinary Perspectives on Evidence: Environmental Literacy and the Assessment of Student Learning, Scholarship of Teaching and Learning Workshop, Indiana University, Bloomington, IN
- 10/05 *Invited lecture*, Science policy research and development of policy, Higher School of Economics, Moscow, Russia.
- 5/05 *Invited Lecture*, Organochlorine Toxicity: Mechanisms and New Directions, Renal Research Rounds, IUPUI Medical School, Indianapolis, IN
- 4/05 *Invited speaker*, Asbestos and Health, Bloomingtrees Earth Week Celebrations, Bloomington, IN.
- 2/05 *Invited panel presenter*, Environmental Justice Research, Methods and Case Studies, Panel on Environmental Justice in the 21st Century, Environmental Management Association Workshop, Indiana University, Bloomington, IN
- 1/05 *Invited Panel Presenter*, DDT and PBB: Literature Update; Pine River Task Force Citizen’s Advisory Group Environmental Health Symposium, Alma, MI
- 10/04 *Invited speaker*, Scared to Know: Focus on Environmental Health, Zeta Phi Beta Sorority, Indiana University, Bloomington, IN
- 5/04 *Lecturer*, Depleted Uranium and Human Health, Depleted Uranium Forum, 5th International Organizing Conference on Iraq, Bloomington, IN
http://www.grassrootspeace.org/diane_henshel.html
- 11/03 *Lecturer*, Environment and Policy, Northwest Academy of Public

- Administration (NWAPA), St. Petersburg, Russia
- 9/03 *Invited Panel Presenter*, Health as a Social Equity Indicator, Third Social Equity Leadership Conference, sponsored by the National Academy for Public Administration Standing Panel on Social Equity In Governance, Cincinnati, OH
- 6/03 *Poster Presentation*, Using data mining to evaluate the linkage between public health and environmental exposures, Association for Science in the Public Interest Annual Meeting, Fairfax, VA
- 6/03 *Invited Panelist and Participant*, Institutional controls at Jefferson Proving Ground: The problems with depleted uranium, Workshop on Federal Facilities Cleanup Forum: Technical Information and Citizen's Forum, University of Massachusetts, Amherst, MA
- 4/03 *Invited Panelist and Presenter*, Review of Environmental Justice Methodologies, Symposium on Environmental Justice, Valparaiso Law School, Valparaiso, IN
- 2/03 *Poster Presentation*, Correlation Between Environmental PCBs and Mercury Concentrations and Age-Standardized Disease Morbidity and Mortality Rates for the Seventeen Canadian Great Lakes Areas of Concern, (with J. Klump), Workshop on Mercury and Cerebral Palsy, International Joint Commission Science Advisory Board and Workgroup on Ecosystem Health, Windsor, ONT, Canada
- 11/02 *Invited Presenter*, The effect of dioxins and PCBs on avian growth and development: A cross-correlation between laboratory and wildlife-based field studies, University of Louisville, Department of Biology Departmental Seminar, Louisville, KY
- 6/02 *Invited Presenter*, Addressing Environmental Justice Issues in Indianapolis, Indiana Society for Public Administration, Indianapolis, IN
- 6/02 *Invited Panelist and Participant*, Jefferson Proving Ground update, Panel Session on Information Access for Effective Cleanup. Federal Facilities Cleanup Workshop 2002: Empowering Community-Science Partnerships for Effective Military & Nuclear Waste Cleanup, Oakland, CA
- 5/02 *Invited Presenter*, Health effects of pollutants released during open air trash burning, Indiana Recycling Coalition Annual Mtg, Indianapolis, IN
- 4/02 *Invited Presenter*, Environmental Justice Assessment, Northwest Indiana Environmental Justice Workshop, East Chicago, IN
- 4/02 *Presentation*, Correlation of Environmental PCB and Mercury Data with Canadian Infantile Cerebral Palsy Morbidity Incidence Data. (with J. Klump), Consultation on the Effects of Methylmercury on Human Health, International Joint Commission Science Advisory Board and Workgroup on Ecosystem Health, Ann Arbor, MI
- 11/01 *Planning Committee member and Presenter*, Global Climate Change: The basics of the controversy, Workshop on Climate Change: The Environmental Crisis in Indiana and the World, Sponsored by the Indiana Faith-Based Global Climate Change Campaign, Bloomington, IN
- 9/01 *Invited Participant and Presenter*, Risk assessment of the proposed Indiana Harbor and Canal dredging project, IU Northwest Environmental Justice Conference, Gary, IN
- 7/01 *Invited Participant and Presenter*, Is there an Environmental Justice issue in Indianapolis?, National Academy of Public Administration Standing Panel on Social Equity in Governance Mini-Conference on Social Equity and

- Environmental Justice, Indianapolis, IN
- 7/01 *Invited Participant*, Jefferson Proving Ground: Cooperation Between DOD and Citizens?, Federal Facilities Cleanup Forum: Technical Information and Citizen's Forum, Amherst College, Amherst, MA
- 4/01 *Invited Presenter and Discussant*, Using the precautionary principle when applying bioavailability, National Research Council Committee on Bioavailability of Contaminants in Soils and Sediments, Washington, DC
- 3/01 *Planning Committee member and Presenter*, "The basic science of global climate change" Workshop on Climate Change: The Environmental Crisis in Indiana and the World, Sponsored by the Indiana Faith-Based Global Climate Change Campaign, Indianapolis, IN
- 3/01 *Invited Lecturer*, Breast Cancer and Environmental Chemicals, Olcott Center for Breast Health, Bloomington, IN
- 12/00 *Co-Organizer and Presenter*, Health effects of pollutants found in air, Workshop on What is in the Air You Breathe?, Sponsored by the Indianapolis Urban League Environmental Coalition, Marion County Department of Health, and the Indiana Department of Environmental Management, Indianapolis, IN
- 10/00 *Presenter*, Interim report on the Great Lakes states health statistics databases, Workshop on Methodologies for Community Health Assessment in Areas of Concern Sponsored by the International Joint Commission Science Advisory Board, Windsor, ONT
- 10/00 *Invited Participant (Panel of Experts)*, Workshop on Avian Vacuolar Myelinopathy. Sponsored by the USGS Biological Resources Discipline National Wildlife Health Center, A Madison, WI
- 5/00 *Presenter*, Review of JPG site contamination and recommendations for the RI/FS, Jefferson Proving Ground Remediation Advisory Board and other stakeholders (Public meeting), Madison, IN
- 3/00 *Invited Presenter*, Health effects of NWI air pollutants, Workshop on Clearing the Air: Strategy meeting on cleaning Indiana's air and water resources, Sponsored by the Sierra Club, Hoosier Environmental Council and Grand Cal Task Force, Calumet, IN
- 2/00 *Invited Lecturer*, Effects of PCBs on Developing Avian Embryos, Clemson University, Pendleton, SC
- 8/99 *Featured Presenter*, Developmental PCB Health Effects on Passerines, Conference on Wildlife Applications to Remedial Decision-Making, hosted by Texas Tech University, co-sponsored by the EPA and FWS, Denver, CO
- 3/99 *Invited Lecturer*, Effects of TCDD on Developing Avian Embryos, Ecology Working Group, Indiana University, Bloomington, IN
- 1/99 *Invited Lecturer*, PHAH-induced avian birth defects, Institute Nationale de Recherche Scientific - Sante, Montreal, QUE
- 10/98 *Invited Participant*, Multi-State Working Group on Environmental Management Systems Roundtable Discussion on Research Strategies Regarding Environmental Management Systems. Sponsored by the Environment Council and the JL Kellogg Graduate School of Management, Northwestern University, Evanston, IL.
- 4/98 *Chair and Invited Presenter*, Symposium on Environmental Toxicology and Risk Assessment: Standardization of Biomarkers for Endocrine Disruption and Environmental Assessment Sponsored by American Society for Testing and Materials Comm. E47 on Biological Effects and Environmental Fate, Atlanta,

GA

- 9/97 *Participant*, Wingspread Conference on the Policy Implications of New Evidence Regarding Toxic Substances and Human Health, Sponsored by the International Joint Commission on the Great Lakes, Racine, WI
- 9/97 *Presenter*, Effects of PCBs on Barn Swallows from the Grand Calumet River Area of Concern, International Joint Commission - sponsored Lakewide Management Plan and Remedial Action Plan Workshop on Human Health and Aquatic Life Considerations - Examining the Effects of Persistent Toxic Substances, Cleveland, OH
- 9/97 *Presenter*, Service Learning in the Classroom, Collaborative Learning Workshop, Indiana University, SPEA Fall Retreat, Bloomington, IN
- 6/97 *Coordinator*, Annual Meeting of the Ohio Valley Chapter of the Society for Environmental Toxicology and Chemistry, Bloomington, IN
- 9/96 *Presenter*, PCB-induced impacts on avian nestlings, development of a suite of monitoring indicators, International Joint Commission on the Great Lakes Workshop on Environmental Results: Monitoring and Trends of Effects Caused by Persistent Toxic Substances, Windsor, ONT
- 6/96 *Session Moderator and Presenter*, Effects of TCDD on avian brain development, and Effects of TCDD on avian hatchling behavior, Session on "Non-Human Health Effects" MIT Conference on The Future Uses of Chlorine: Issues in Education, Research and Policy, Boston, MA
- 5/96 *Presenter*: TCDD impacts on early avian brain development, International Association for Great Lakes Research, special session on Endocrine and Neurotoxicological Effects of Dioxin-Like Compounds, Toronto, ONT
- 4/96 *Session Chair and Presenter*, Symposium on Environmental Toxicology and Risk Assessment, Sponsored by American Society for Testing and Materials Committee E47 on Biological Effects and Environmental Fate, Orlando, FL
- 3/96 *Invited Lecturer*, PCB-induced developmental impacts: Effects on brain development, Institute for Environmental Studies, Lecture Series on Neurotoxicology, University of Illinois, Urbana, IL
- 2/96 *Invited Presenter*, Great Lakes Wildlife Bioeffects Group Spring Meeting, Dayton, OH
- 4/95 *Co-chair*, Symposium on Environmental Toxicology and Risk Assessment - Focus on Biomarkers Sponsored by American Society for Testing and Materials Committee E47 on Biological Effects and Environmental Fate, Denver CO
- 1/95 *Invited Lecturer*, TCDD-induced brain asymmetry, Department of Biology, Indiana University/Purdue University, Fort Wayne, IN
- 10/94 *Presenter*, Great Lakes Wildlife Bioeffects Group Fall Mtg, Madison, WI
- 3/94 *Presenter*, Great Lakes Wildlife Bioeffects Group Spring Mtg, Lansing, MI
- 1/94 *Invited Lecturer*: Indiana University Medical Sciences Program, Bloomington, IN
- 12/93 *Invited Presenter and Participant*, TCDD-induced avian brain asymmetry, Workshop on the Chemically induced alterations in development: The wildlife/human connection Wingspread Conference Center, Racine, WI
- 5/93 *Invited Lecturer*, Effects of PCBs and TCDD on early brain development, Center for Great Lakes Research, Milwaukee, WI
- 4/93 *Invited Lecturer*, TCDD-induced avian brain anomalies, National Fisheries Contaminant Research Center, US FWS, Columbia, MO

- 10/92 *Presenter*, Great Lakes Wildlife Bioeffects Group Fall Meeting, Kalamazoo, MI
- 6/92 *Presenter*, Hazardous, Special and Toxic Wastes Workshop; Sustainable Development Research Initiative, Vancouver, BC, Canada
- 4/91 *Invited Lecturer*, University of British Columbia, Department of Zoology, Vancouver, B.C.
- 3/91 *Invited Lecturer*, Louisiana State University Department of Pharmacology and Toxicology, Shreveport, LA
- 3/91 *Invited Lecturer*, Indiana University School of Public and Environmental Affairs, Bloomington, IN
- 2/91 *Presenter*, Brain asymmetry in heron hatchlings correlated with TCDD exposure, Environmental Effects of Pulp Mill Effluent Workshop, BC Ministry of the Environment, Vancouver, BC, Canada
- 11/89 *Presenter*, BC Great Blue Heron Study Group Workshop, University of British Columbia/Canadian Wildlife Service, Vancouver, BC, Canada

GRANTS, CONTRACTS, FELLOWSHIPS and AWARDS (P.I. unless mentioned)

National Park Service, “CESU Nearshore Sand Habitats of Southern Lake Michigan at Indiana Dunes National Lakeshore”, 2010 – 2011, \$85,000

National Park Service, “CESU Watershed Assessment at Indiana Dunes National Lakeshore”, 2010 – 2011, \$129,456 (as co-PI)

Indiana Commission for Higher Education, Indiana Department of Commerce, Environmental Literacy Grants for Formal K-12 Education, “Shoring up STEM Education In Lake Country”, 2011 – 2012, \$332,410

Wildwood, Missouri City Council, Risk Assessment for the Proposed Strecker Forest Subdivision, 2010 – 2011, \$40,000 (as Henshel EnviroComm, with Environmental Stewardship Concepts, Inc)

IU School of Public and Environmental Affairs Sustainability Research Development Grant, 2009 – 2010, \$10,000, "Perception of Bike Safety and Infrastructure Needs." David Good, co-PI; Master's students: Yonghua Zou, Zeynep Altinay, Max Jie Cui and Courtney Bonney

Indiana University Scholarship of Teaching and Learning Fellowship, (awarded to the Environmental Literacy and Sustainability Initiative team, of which I am an equal co-PI and one of the five faculty members participating with my E512/E412 Risk Communication class in the Fall 2006 semester), 2006 – 2008, \$30,000, “Food for Thought”

Indiana University Faculty Research Support Program, 2006 – 2008, \$64,000, “Effect of Red Light Phototherapy on Dioxin-Induced Toxicity in Chick Embryos”

Indiana University Multidisciplinary Ventures and Seminar Fund, 2005 – 2006, \$5,000, “Effect of Near Infra-Red Light on Dioxin Toxicity in Embryos”

Indiana University Grant-in-Aid of Research, 2004 – 2005, \$2,500, “Effect of Near Infra-Red Light on Dioxin Toxicity in Embryos”

Indiana University Summer Faculty Fellowship, 2005, \$8,000, “Effect of Near Infra-Red Light on Dioxin Toxicity in Embryos”

US Fish and Wildlife Service, 1995 – 2007, \$380,600 through IU, \$175,000 through Henshel EnviroComm

“Technical Assistance on the NRDA Sites in Monroe and Lawrence Counties, IN - Histology”

“Technical Assistance on the NRDA Sites in Monroe and Lawrence Counties, IN”

“Histological and Morphometric Analysis of Fish in Streams in Monroe County, IN”

“Barn swallow physiological bioeffects assessment, Grand Calumet River and Indiana Harbor Canal, Lake County, Indiana”

“Patoka River National Wildlife Refuge - Follow-up investigation of problematic contaminant concerns found during the baseline investigation”

“Tree swallow bioeffects assessment, multiple PCB sites in Bloomington, IN”

“Histopathological impacts of PCBs on passerines nesting at the Westinghouse PCB sites, Monroe, Owen, Greene, Martin and Lawrence Counties, Indiana”

US EPA GLNPO Sub-contract under MSU TOSC Grant, 2002 – 2003, \$12,000 for sub-contract.

US Department of Defense, Jefferson Proving Ground Technical Assistance for Public Participation, Contract with Henshel EnviroComm, 1999 – 2003, \$100,000

Indiana Department of Higher Education Eisenhower Profession Development Grant 2001-2002, \$15,000, “SPECIES - Teachers”

US EPA Environmental Community Internship Fellowship 2001, 2002, \$5,300, (Granted to Indianapolis Urban League Environmental Coalition; Intern: Jeremiah Brown; D Henshel primary mentor/grant red tape)

US EPA Environmental Justice Small Grant (Granted to Indianapolis Urban League Environmental Coalition - IULEC), 1999 – 2001, \$20,000,

“GIS Database Development and Urban Community Education”

US Fish and Wildlife Service, Upper New York State Field Office, 1997, \$16,363, Adverse effects related to environmental contaminants as seen in developing organisms. Histopathology of Hudson River Tree Swallows”

Indiana University Outstanding Junior Faculty Fellowship/Award, 1996 – 1997, \$12,500

US Fish and Wildlife Service, 1996 – 1997, \$7,824,

“Double-Crested Cormorant Brain Asymmetry Analysis”

Pennsylvania Cooperative Fish and Wildlife Research Unit, Pennsylvania State University, 1995 – 1997, \$25,000, “Measuring tree swallow brains”

Indiana University Summer Faculty Fellowship, 1996, \$6,500, “Effects of PCBs and PAHs on avian wildlife: an integrated, multi-level analysis”

Indiana University Intercampus Research Fund, 1995-1996, \$9,500 (With Elliott Blumenthal) “Dioxin effects on protein kinase C and tyrosine kinase in the early embryo”

Miles, Inc., Alternative to Animals Research Grant; City of Berkeley, Citizen's Humane Commission, 1995, \$19,000, "Development of an alternative assay for teratogenicity testing"

US Fish and Wildlife Service, 1993 – 1995, \$21,450, "The reproductive and developmental toxicity of TCDD-containing soils in the domestic chicken"

US Fish and Wildlife Service, 1993 – 1994, \$7,600, "Assessment of exposure, depuration and bioeffects in four deformed bald eaglets in Michigan"

US Army Corps of Engineers, 1993 – 1994, \$59,831, "Preliminary assessment of health risks associated with the Crane Naval Surface Weapons Center"

Biomedical Research Support Grant, 1994, \$7,500, "Developmental neuro- and embryotoxicity of dioxin-like compounds"

Overseas Conference Fund Travel Grant (Indiana University) 1994, \$600

Arde Bulova Foundation Grant, 1993 – 1994, \$3,000, "The effects of dioxin on the developing avian embryo"

Indiana University Bloomington Summer Faculty Fellowship, 1993, \$6,500, "The effects of dioxin on the developing avian embryo"

Sustainable Development Research Initiative Grant (author, contact person, and co-investigator) funded by the British Columbia Science Council and the British Columbia Environment Ministry, 1991 – 1992, \$56,500, "Development of a toxic/hazardous waste biomonitoring assay"

National Science and Engineering Research Council (NSERC)-Industrially Oriented Research Grant (author and co-investigator; John Steeves, P.I.), 1990 – 1992, \$24,000, "The effects of dioxin on the developing avian embryo"

British Columbia Environment Ministry, 1990, 1991, 1992, \$36,000 total, "Analysis of the enhanced sensitivity of chicken embryos to dioxin"

Wildlife Toxicology Fund Grant (author and co-investigator; John Steeves, P.I.), 1990-1991, \$40,000, "The effects of dioxin on the developing avian nervous system"

Private Grants from: Fletcher-Challenge Canada, 1990 – 1991, \$8,000

MacMillan-Bloedel Ltd., 1990 – 1991, \$8,000

Canfor Corporation, 1990 – 1991, \$8,000

Private Grants from: B.C. Wildlife Federation, 1990, \$250

Northwest Territories Wildlife Federation, 1990, \$150

Washington University Institutional Grant, 1986 – 1987

National Eye Institute Vision Training Grant, 1983 – 1986

National Society to Prevent Blindness Grant, 1983 – 1984, \$10,000

National Institutes of Health - Pharmacology Training Grant, 1981 - 1982

National Institutes of Health - Neuropharmacology Training Grant, 1980 – 1981

Pending Proposals

National Oceanic and Atmospheric Administration “Shoring Up STEM Education in Lake County II: Connecting Curriculum and Community” Total Requested: \$433,180/2 yrs (Pre-proposal accepted, full proposal requested and submitted)

PUBLICATIONS

Books, Peer-Reviewed Articles, Peer-Reviewed Monographs, Book Reviews, Editorials; Published and In Press

J. Lim, R.A. Sanders, A.C. Snyder, J.T. Eells, **D.S. Henshel**, J.B. Watkins III (2010) Effects of low-level light therapy on streptozotocin-induced diabetic kidney **J. Photochem. Photobiol. B: Biology** 9:105-110

B. Eskenazi, J. Chevrier, L. Goldman Rosas, H.A. Anderson, R. Bornman, H. Bouwman, A. Chen, B.A. Cohn, C. de Jager, **D.S. Henshel**, F. Leipzig, J.S. Leipzig, E.C. Lorenz, S.M. Snedeker. D. Stapleton (2009) The Pine River Statement: Human Health Consequences of DDT Use. **Environ. Health Perspec.** 117(9): 1359–1367.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2737010/>

W. Schlegel, H.Reynolds, V. Getty, **D. Henshel**, J. Reidhaar (2009) Food for Thought: A multidisciplinary faculty grass-roots initiative for sustainability and service learning. Chapter 17 in H.L. Reynolds, E.S. Brondizio, and J. M. Robinson (Eds) Teaching Environmental Literacy: Across Campus and Across the Curriculum. Indiana University Press, Bloomington IN.

Lim, J., Ali, ZM, Sanders, RA, Snyder, AC, Eells, JT, Watkins III, JB and **Henshel, D.S.** (2009) Effects of Low Level Light Therapy on Hepatic Antioxidant Defense Capabilities of Acute and Chronic Diabetic Rats. **J. Biochem. Molec. Toxicol.** 23(1):1-8.
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Yeager, R.L., Parkhurst, D.F. and **Henshel, D.S.** (2007) Graphical Methods for Exploratory Data Analysis with Complex Data Sets. **BioScience** 57(8):673-680. (IF 2005: 4.708, citation half life 7.9 yr)

Yeager, R.L., Oleske, D.A., Sanders, R.A., Watkins III, J.B., Eells, J.T., **Henshel, D.S.** (2007) Melatonin as a principle component of red light therapy. **Medical Hypotheses.** 69(2):372-376. (IF 2005: 0.92, citation half life 5.2 yr)

Lim, J., DeWitt, J.C., Sanders, R.A., Watkins III, J.B., and **Henshel, D.S.** (2007) Suppression of endogenous antioxidant enzymes by 2,3,7,8-Tetrachlorodibenzo-*p*-dioxin-induced oxidative stress in chicken liver during development. **Arch. Environ. Contam. Toxicol.** 52(4):590-595. (IF: 1.408; citation half life: 7.9 yr)

Henshel, D.S., Aschner, M., Basu, N., Bowerman, W., Echeverria, D., Gilbertson, M., Ralston, N., Rumbold, D., Wolfe, M. (2007). New Bioindicators for Mercury Toxicological Assessment: Recommendations from the First International Bioindicators Roundtable. **Environ. Bioind.** 2(3):183-207.

Yeager, R.L., Lim, J., Millsap, D.S., Jasevicius, A.V., Sanders, R.A., Whelan, H.T., Watkins, J.B.III, Eells, J.T., **Henshel, D.S.** (2006) 670 nm Light Treatment Attenuates Dioxin Toxicity in the Developing Chick Embryo. **J. Biochem. Molec. Toxicol.** 20(6):271-8 (IF 2005 2.0; citation half-life 4.2yr)

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DeSmet, K.D., Paz, D.A., Eells, J.T., Wong-Riley, M.T.T., Henry, M.M., Buchmann, E.V., Connelly, M.P., Dovi, J.V., Liang, H.L., **Henshel, D.S.**, Yeager, R.L., Millsap, D.S., Lim, J., Gould, L.J., Das, R., Jett, M., Hodgson, B.D., Margolis, D., Whelan, H.T. (2006) Clinical and Experimental Applications of NIR-LED Photobiomodulation. **Photomed Laser Surgery** 24(2):121-128. (IF 2005 0.784 – New name for journal in 2005)

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DeWitt, J., Millsap, D.M., Yeager, R.L., Heise, S.S., Sparks, D.W., and **Henshel, D.S.** (2006). External heart deformities in passerine birds exposed to environmental mixtures of PCBs during development. **Environ Toxicol Chem** 25(2): 541-551. (IF: 2.414, citation half-life 6.3 yr)

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Henshel, D.S., Sparks, D.W., Simon, T.P., and Tosick, M.J. (2006). Age Structure and Growth of Creek chub (*Semotilus atromaculatus*) (Mitchill) in PCB-contaminated streams in Indiana. **J. Fish Biol.** 68:44–62 doi:10.1111/j.1095-8649.2005.00875.x (IF: 1.188, citation half life 9.5 yr)

Boeglin, M.L., Wessels, D., and **Henshel, D.S.** (2006). An investigation of the relationship between air emissions of volatile organic compounds and incidence of cancer in Indiana counties. **Environ Res** 100(2):242-254. doi:10.1016/j.envres.2005.04.004. (IF 2005: 2.324, citation half life 7.5 yr)

Henshel, D.S. and Sparks, D.W. (2006). Site-specific PCB-linked Interspecies Differences in

Organ Somatic Indices. **Ecotoxicology** 15:9-18. DOI: 10.1007/s10646-005-0038-0. (IF 2005: 1.552 2005, citation half life 5 yr)

Yeager, R.L., Franzosa, J.A., Millsap, D.S., Angell-Yeager, J.L., Heise, S.S., Wakhungu, P. Lim, J., Whelan, H.T., Eells, J.T., **Henshel, D.S.** (2005) Effects of 670 nm Phototherapy on Development. **Photomedicine and Laser Surgery** 23:268-272.

DeWitt, J.C., Meyer, E.B., **Henshel, D.S.** (2005) Environmental toxicity studies using chickens as surrogates for wildlife: Effects of vehicle volume. **Arch Environ Contam Toxicol** 48(2):260-269.

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Alonso, K.R., Peden-Adams, M.M., Liu, J.Y., Charbonneau, C., **Henshel, D.**, Dickerson, R.L. (1998) Effects of *in ovo* exposure to 2,3,7,8-TCDD in F1 generation adult chickens (*Gallus gallus*). **Chemosphere**. 37(9-12):1873-1883.

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(not included in talks presented at institutions, seminars, workshops, above)**

D. Henshel and I Yakymenko, (2010) The Effects of Mobile Phone Radiation on Early Embryonic Development in Quail (*Coturnix coturnix japonica*) presented at the 31st Annual Meeting of the (International) Society for Environmental Toxicology and Chemistry, Portland Oregon, November 7-11, 2010

D. Henshel and I Yakymenko, (2010) Mobile Phone Radiation Induces Changes in Early Embryonic Development in Quail (*Coturnix coturnix japonica*) presented at the 18th Annual International Conference on Environmental Indicators, Hefei, China, September 13 -16, 2010

S. Chebet and **D. Henshel** (2010) Developing a Plan to Reduce Youth-Led Inter-Ethnic Violence in Kenya. (Abstract) Presented at the Peace and Reconciliation Symposium, Eldoret, Kenya, May 12 – 14.

D. Henshel, J. Lim, R. Sanders, Z. Ali, A. Patel, S. Gopalakrishnan, D. Lark, A.C. Snyder, J.T. Eells and J. Watkins (2009) 57. Photobiomodulation reduces cellular oxidative stress in an animal model of diabetes. **Mitochondrion** 9(1):75.

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D. Henshel (2009) Effects of 670 nm light on chemical-induced toxicity: A review of work in the USA. (Abstract) Plenary talk presented at the 31st International Conference on "Applications of Lasers in Medicine and Biology", Kharkov National University, Kharkov, Ukraine. May 21.

J. Lim; R.L. Yeager; J.T. Eells; J.B. Watkins III; **D.S. Henshel** (2008) Attenuation of TCDD-Induced Embryotoxicity By Low Level Light Therapy in Developmental Chicken. Society for

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D.S. Henshel; V. Getty; G. Rehrey; J. Reidhaar; H. Reynolds; W. Schlegel (2008). Food for Thought: Enhancing Risk Communication Skills Through Multi-Disciplinary Service Learning. Society for Environ. Toxicol. Chem. Abstracts MP177 29th Annual Meeting, Tampa FL Nov 16 - 20

D.Henshel, J. Lim, R. Yeager, R. Sanders, J. Eells, J. Watkins. (2008) Red light therapy as a tool for decreasing chemical-induced oxidative and energy stress in models of human disease. ISEBI 16th International Conference, Orlando, FL, Nov 11 - 14.

J. Lim, T.E. Balestri, R.A. Sanders, A.C. Snyder, J.T. Eells, **D.S. Henshel**, J.B. Watkins III (2008) Effects of low light therapy on renal function and antioxidant defense systems in the streptozocin-induced diabetic rat model. 25th annual meeting of the Ohio Valley Society of Environmental Toxicology and Chemistry, Bloomington, IN, Oct 2-3.

Henshel, D.S. DaSilva, A. (2008) Using landscape scale modeling as a tool to assess potential health indicators. (invited) International Society for Great Lakes Research, May 19 – 23, Peterborough, ONT.

Henshel, D.S., Sparks, D.W. (2008) Developing insectivorous avian delisting criteria for the Great Lakes AOCs. (invited) International Society for Great Lakes Research, May 19 – 23, Peterborough, ONT.

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Activities Suppressed in Streptozotocin-Induced Diabetic Rat Society of Toxicology Annual Meeting, March 16-20, Seattle, WA. **The Toxicologist** 87:

D.W. Sparks, **D.S. Henshel**, (2007) Avian contaminant monitoring in the Grand Calumet River / Indiana Harbor Canal. (invited) Society of Environmental Toxicology and Chemistry 28th Annual Meeting, Milwaukee, WI, Nov 11-15, Abstract #669

J. Lim, **D. Henshel**; R. Sanders, J. Watkins, R. Wilson, A.C. Snyder, S. Gopalakrishnan, J.T. Eells (2007) Attenuation of Oxidative Stress by 670 nm Photobiomodulation in a Rodent Model of Diabetes Mellitus. Society of Environmental Toxicology and Chemistry 28th Annual Meeting, Milwaukee, WI, Nov 11-15, Abstract #RP54

Henshel, D.S. (2007) Wildlife as environmental monitors for pollutants and endocrine disruptors. (invited) The Wildlife Society 14th Annual Meeting, Tucson AZ Sept. 22-26.

Reynolds, H.L., Getty, V.M., Gross, B.L., **Henshel, D.S.**, Rehrey, G.J., Reidhaar, J.W., Schlegel, W.M. (2007) Food for thought: Use of a multidisciplinary service-learning model to enhance student food literacy. Joint meeting of the Ecological Society of America and the Society for Ecological Restoration International. San Jose, CA, Aug. 5-10.

Getty, V.M., Gross, B.L., **Henshel, D.S.**, Rehrey, G.J., Reidhaar, J.W., Reynolds, H.L., Schlegel, W.M. (2007) Food For Thought: Assessing the Effectiveness of Cross-Disciplinary Service-Learning. Indiana University Scholarship of Teaching and Learning Spring Meeting, Bloomington, IN, March 23, 2007

Lim, J., Yeager, R.L., Millsap, D.S., Sanders, R.A., Eells, J.T., Watkins III, J.B., and **Henshel, D.S.** (2007) The Effects of Red Light Therapy on TCDD-Induced Oxidative Stress in Chicken Kidney During Embryogenesis. Society of Toxicology Annual Meeting, March 25-29, Charlotte, NC **The Toxicologist** 86:

Yeager, R.L., Oleske, D.A., Sanders, R.A., Eells, J.T., Watkins III, J.B., **Henshel, D.S.** (2007) A developmental study of energy and glutathione redox balance in brain after dioxin exposure and 670 nm light treatment. Society of Toxicology Annual Meeting, March 25-29, Charlotte, NC **The Toxicologist** 86:

Watkins III, J.B., Yeager, R.L., Sanders, R.A., Eells, J.T., **Henshel, D.S.** (2007) 670 nm light treatment mitigates dioxin-induced hepatic oxidative stress. Society of Toxicology Annual Meeting, March 25-29, Charlotte, NC **The Toxicologist** 86:

Henshel, D., Wolfe, M., Basu, N., Aschner M., Bowerman, W., Echeverria, D., Gilbertson, M., Ralston, N., Rumbold, D. (2006). Recommendations for Future Research on Mercury Bioindicators for Human Health and Wildlife. Society for Environmental Toxicology and Chemistry 27th Annual Meeting, November 5 - 9, Montreal Quebec Canada.

Yeager, R.L., Lim, J., Millsap, D.S., Sanders, R.A., Watkins J.B. III, Whelan, H.T., Eells, J.T. and **Henshel, D.S.** (2006). Near infrared light therapy attenuates dioxin-induced embryo mortality. Midwest Regional Chapter of the Society of Toxicology. Lincolnshire, IL. (*Runner up – Victor A. Drill Award for the Best Graduate Student Presentation).

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Henshel, D.S., DeViny, G., Heo, K. (2001) A Risk Communication-Based Comparison of the Great Lakes Fish Advisories. Society for Environmental Toxicology and Chemistry 22nd Annual Meeting, November 11 - 15, Baltimore, MD

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Workman, A. and **Henshel, D.S.** (2001) Great Lakes states health statistics for Areas of Concern in the United States. American Public Health Association, 129th Annual Meeting, October 21-25, Atlanta GA

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Wilkerson, E., Sparks, D.W., Bennett, S.L., Murphy, N.L, Watkins, J., **Henshel, D.S.** (2001) PCB Related Effects on Growth, Biochemistry, and Thyroid in Snapping Turtles. Ohio Valley SETAC Annual Meeting, May 10-11, Miami, OH

DeWitt, J.C., **D.S. Henshel** (2001) Changes in the Brains of Domestic Hatchling Chickens Developmentally Exposed to TCDD. Ohio Valley SETAC Annual Meeting, May 10-11, Miami,

OH

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DeWitt, J.C., Meyer, E.M., **Henshel, D.S.** (2000) TCDD-Induced Brain Asymmetry and Behavior: What do Individual Chicks Have to Say? Ohio Valley Society for Environmental Toxicology and Chemistry, May 10-11, Miami, Ohio (Awarded the Marian Vinegar Award for Best Student Presentation)

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and Chemistry, 20th Annual meeting. October, 1999, Philadelphia, PA.

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Boischio, A.A.A.P. and **Henshel, D.** (1999) Society for Ecosystem Health Annual Meeting, August 1999, Seattle WA

Henshel, D.S. (1999) Developmental Toxicology Endpoints: A Case-Study from the Field." Wildlife Applications to Remediation Decision-Making, September 1999, Denver, CO

Henshel, D.S., Martin, J.W., Nelson, C., Rosenfeld, D., Sikarski, J., Bolander, R., Bowerman, W, Best, D. (1999) Using computer tomography to detect gross brain asymmetry induced by exposure to environmental pollutants. International Neurotoxicology Conference, October, 1999, Little Rock, AR

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Yorks, A.L., Melancon, M.J., Hoffman, D.J., **Henshel, D.S.**, Sparks, D.W. (1998) Nestling tree swallows (*Tachycineta bicolor*) body burdens and their effects on reproduction and growth. Society for Environmental Toxicology and Chemistry, 19th Annual meeting. November, 1998, Charlotte, NC.

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Henshel, D.S., Allen, C.A., Lam, Y., Benson, K. (1996) A comparison of the early embryo effects of ethanol, 1,1,1-trichloroethane, atrazine, 2,4-D, methyl mercury, lead, and 2,3,7,8-TCDD. Society of Toxicology, 1996 Annual Meeting, Anaheim, CA, March 1996. *Fund. Appl. Toxicol. (The Toxicologist)* 30(No. 1 pt. 2):197.

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species sensitivity. International Society for Environmental Toxicology and Chemistry, Annual Meeting, Vancouver, B.C. Canada, November 1995.

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Referees for Diane Henshel

Toxicologists

Janis Eells

Distinguished Professor of Toxicology and Health Sciences
University of Wisconsin-Milwaukee
Department of Health Sciences
College of Health Sciences
PO Box 413
Milwaukee, WI 53201-0413
1-414-229-5405
jells@uwm.edu

John Watkins

Dean and Director of Medical Sciences Program - IUB
Professor of Pharmacology and Toxicology
Indiana University
Jordan Hall 112
Bloomington, IN 47405
812 855-3201
Watkins@indiana.edu

SPEA Colleagues

Lisa Bingham

Keller-Runden Professor of Public Service
Professor of Public and Environmental Affairs
Indiana University
1315 E 10th Street, SPEA 330
Bloomington, IN 47405
812 855-0731
lbingham@indiana.edu

Maureen Pirog

Rudy Professor of Public and Environmental Affairs
Co-Director IU Institute for Family and Social Responsibility
Editor-in-Chief, Journal of Policy Analysis and Management
Indiana University
1315 E 10th Street, SPEA 410H
Bloomington, IN 47405
812 855-0732
812 856-5926
pirog@indiana.edu

Edwardo L. Rhodes

Former Vice Chancellor and Associate Vice President
Indiana University
1315 E 10th Street, SPEA 410H
Bloomington, IN 47405
812 855-4556
rhodes@indiana.edu