November 2, 2017

Honorable Eric Holcomb Governor State of Indiana 200 W. Washington St., Room 206 Indianapolis, Indiana 46204

Dear Governor Holcomb:

As scientists in Indiana, we are concerned about the substantial increase in the rate of degradation and habitat fragmentation taking place in our state forests due to timber harvesting. In 2002, 40% of Indiana state forests were set aside from commercial logging, yet in 2017 less than 5% is set aside. Under your leadership as Governor, you have the opportunity to turn this trend around by reducing logging in state forests and by establishing tracts devoted to ecological conservation and passive wilderness recreation as other states have done (e.g., Pennsylvania, Michigan, Wisconsin, Maryland, Ohio, and Connecticut).

We believe that a forest is more than trees for timber. A mature temperate hardwood forest includes a large diversity of animals, herbaceous plants and shrubs, mosses and lichens, fungi, and microbes that form a complex and interactive system. The forest not only provides homes for these organisms but it also provides important ecosystem services such as nutrient cycling, healthy soil development, watershed protection, micro- and macro- climate control, and carbon storage that directly affect human populations.

A mature forest is a dynamic system with a variety of habitats. For example, early-successional vegetation thrives in canopy openings caused by forest diseases and insects, storm blow downs, and fires. These forests are a mosaic of age and size classes with multi-layered canopies representing a broad assemblage of tree species. Standing dead trees (snags) and large fallen logs increase structural complexity and provide homes for numerous species. Old growth forests – the oldest form of mature forest – which contain large trees 150 to 200 years old, host unique species such as soil fungi associated only with very old trees and vital to forest regeneration.

Large tracts of contiguous mature forests are necessary to preserve the rich biological diversity of central hardwood forests. In Indiana the total acreage of documented old growth forests is small. The current timber management practice of removing large, older trees from state forests impairs the potential for any

significant amount of old growth forests to return for the next several generations. Our forest ecosystems cannot be sustainable if the only old growth forest is in nature preserves and state parks, which contain only one third of one percent of Indiana's forest* land. Our state forests and Hoosier National Forest are the only publicly owned forest acreages extensive enough to conserve biological diversity on a viable landscape scale. *=corrected on 11/21/17

More than four-fifths of Indiana's forest is privately owned. Forest inventories document that the majority of this private forest is relatively young, with the oldest trees less than half their natural life spans. Active logging in these forests will continue to prevent the return of old growth conditions on private land for many decades to come. Furthermore, nearly four-fifths of all state and federal public lands in Indiana are now under reservoirs or subject to commercial logging or wide-scale cutting of native vegetation. Thus, it is incumbent on the state to take active measures to conserve large tracts of mature forest in the state forests to achieve ecological objectives.

Numerous animals depend on large tracts of mature contiguous forest. At least thirty species of mammals reside in forests, and of these many are imperiled such as the Gray Fox, Eastern Woodrat, Pygmy Shrew, and Smoky Shrew. Bats, such as the federally endangered Indiana bat and threatened Northern Long-eared bat, need snags in mature forests for summer roosting. Most of our woodland bat populations are in danger from the pathogen White Nose Syndrome, and the added stress of habitat loss from logging is detrimental to their overall populations.

Many bird species also need mature interior forests. Indiana's five species of woodpeckers nest in excavations in forest snags. Other birds such as the Brown Creeper use these holes as well. Many species of warblers, fly catchers, vireos, thrushes, ovenbirds, and tanagers need interior forest habitat. When logging disrupts interior forest, the openings create edge habitats attractive to cowbirds – nest parasites that use the nests of other birds and eliminate the owner's eggs. Any increase in already abundant cowbird populations is detrimental to songbird populations.

Interior forests are also home to many species of amphibians and reptiles, and logging disrupts their habitats. Salamanders require a thick layer of leaf litter on the forest floor, which provides cool, moist conditions under a dense upper canopy layer. Five out of six salamander species listed as endangered or of special concern by Indiana need interior forests. Eastern Box Turtles (of special concern) need deep layers of leaf litter in interior forests for winter hibernacula. State endangered Timber rattlesnakes require undisturbed den areas in these forests.

Many plants besides trees benefit from undisturbed interior forest. In fact, plant species richness is highest in the herbaceous layer among all of the forest strata.

There is a vital link between the tree overstory and the dynamics of the herbaceous layer. The cycling of nutrients and litter formation in this layer are critical to tree seedling survival. Undisturbed forest communities with intact canopies are generally resistant to invasion by exotic plant species. But logging practices allow non-native plants to invade the forest and outcompete the native herbs and shrubs. Logging also reduces the species richness, cover, and abundance of native herbaceous plants.

A hands-off approach on portions of Indiana state forests will enable the development of forest types and conditions that were historically common but are now rare. These mature forest areas will provide opportunities (reference plots) for scientific study of natural processes in aging forests, including natural disturbance, biogeochemical cycles, and soil development. In addition, protected areas can be used as experimental control plots for assessing the consequences of the active management that occurs in the managed portions of the forest.

We need large tracts of mature forests for resilience in a time of uncertainty. Multiaged forests that include areas of old growth have greater resilience and supply more pathways to recovery from unpredictable disturbances, such as drought, increased storms, and invasive pests. Invasive pests and pathogens in particular have caused the loss of ash, chestnut, tulip poplar, northern red oak, and more, with great ecological and economic effect. We cannot predict the arrival of new pests, so we need the diversity of intact, mature forests to ensure that there are some unaffected trees remaining. In addition, old trees continue to absorb and store carbon from the atmosphere; the rate of tree carbon accumulation increases with tree size. By preserving large tracts of our state forest from logging, the forest will have the potential to sequester and store more carbon due to increased structural and compositional diversity.

As governor, you have the authority to change the current trend in over-harvest of our state forests. To ensure the viability of Indiana's native forest ecosystems for the future and for Hoosier's future quality of life, we need to conserve major portions of our state forests and allow them to return to old growth conditions.

Respectfully yours,

Leslie Beslop

Leslie Bishop, Ph.D.

Professor Emerita of Biology, Earlham College

& 239 scientist colleagues

 \star NOTE: The opinions of the signers of this letter do not necessarily reflect the opinions of the academic institutions for which they work.

Marion T. Jackson, PhD	Professor Emeritus of Ecology	Indiana State University
John O. Whitaker, PhD	Professor Emeritus of Biology	Indiana State University
Leslie Bishop, PhD	Professor Emerita of Biology	Earlham College
William H. Buskirk, PhD	Professor Emeritus of Biology	Earlham College
Brent H. Smith, PhD	Professor of Biology	Earlham College
John Iverson, PhD	Professor Emeritus of Biology	Earlham College
Chris R. Smith, PhD	Associate Professor of Biology	Earlham College
Robert L. Rosenberg, PhD	Professor of Biology	Earlham College
Courtney Scerbak, PhD	Assistant Professor of Biochemistry	Earlham College
Emily M. Smith, PhD	Assistant Professor of Biology	Earlham College
Peter Blair, PhD	Associate Professor of Biology	Earlham College
Michael G. Lerner, PhD	Assistant Professor of Biology	Earlham College
Heather Lerner, PhD	Assistant Professor of Biology	Earlham College
Sara Paule	Director of Summer Research	Earlham College
MichaelDeibel, PhD	Professor of Chemistry	Earlham College
Charles Peck, PhD	Professor of Comuter Science	Earlham College
Kalani J. Seu, PhD	Associate Professor of Chemistry	Earlham College
Lori Watson, PhD	Associate Professor of Chemistry	Earlham College
Corinne Deibel, PhD	Professor of Chemistry	Earlham College
Cynthia Fadem, PhD	Associate Professor of Geology	Earlham College
Karen Mager, PhD	Assistant Professor of Environmental Sustainability	Earlham College
Wendi Tori, PhD	Associate Professor of Biology	Earlham College
Kate Waters	Chemistry Laboratory Manager	Earlham College
Jose-Ignacio Pareja, PhD	Director of Science and Technology Commons	Earlham College
Lindsey McGee, PhD	Assistant Professor of Biology	Earlham College
David Barbella, PhD	Assistant Professor of Computer Science	Earlham College
Daniel Thompson	Biology Lab Manager	Earlham College
Ian M. Smith, P.E.	Director of Facilities	Earlham College
Marc Milne, PhD	Associate Professor of Biology	University of Indianapolis
Dean Wiseman, PhD	Associate professor of Biology	University of Indianapolis
Kimberly Baker, PhD	Assistant Professor of Biology	University of Indianapolis
Sandra Davis, PhD	Associate Professor of Biology	University of Indianapolis
Mary Gobbett, MS	Instructor of Biology	University of Indianapolis
Nelson Kraus, PhD	Associate Faculty of Biology	University of Indianapolis
John H. Langdon, PhD	Professor of Biology	University of Indianapolis
David IC Malfa MAC		Hairmait, of Indianandia
David K. Wolfe, MS	Instructor of Biology	University of Indianapolis
Travis Ryan, PhD	Instructor of Biology Professor of Biological Science	Butler University
,		, ,
Travis Ryan, PhD	Professor of Biological Science	Butler University

Marva Meadows, MS	Instructor - Biological Sciences	Butler University
Shelley Etnier, PhD	Associate Professor of Biological Sciences	Butler University
Chris Stobart, PhD	Assistant Professor of Biology	Butler University
Katherine Schmid, PhD	Associate Professor & Biology	Butler University
David L. Daniell, PhD	Professor Emeritus of Biology	Butler University
Jennifer Kowalski, PhD	Associate Professor of Biological Sciences	Butler University
Philip Villani, PhD	Associate Professor of Biology	Butler University
Cris Hochwender, PhD	Professor of Biology	University of Evansville
Angela Reisetter, PhD	Associate professor of Physics	University of Evansville
Joyce Stamm, PhD	Associate Professor of Biology	University of Evansville
Arlen Kaufman, PhD	Prof. of Chemistry, Dir. Environmental Studies	University of Evansville
Lisa Kretz, PhD	Ass. Professor: Environmental Ethics	University of Evansville
Dale Edwards, PhD	Professor of Biology	University of Evansville
Noah Gordon, PhD	Associate Professor of Biology	University of Evansville
Daniel French, MS	Lab Supervisor	University of Evansville
Michael Finkler, PhD	Professor of Physiology	Indiana University Kokomo
Carrie Kinsey, MA	Biology Lab Supervisor	Indiana University Kokomo
Ashley Duffitt, M.E.S.	Lecturer in Biology	Indiana University Kokomo
Terrence J. Sullivan, PhD	Associate Professor of Biology and Molecular Ecology	Indiana University Kokomo
Kasem K. Kasem, PhD	Professor of Chemistry	Indiana University Kokomo
Denise Chauret, PhD	Adjunct Faculty in Organic Chemistry	Indiana University Kokomo
Patrick Motl, PhD	Associate Deanl of Sciences, Assoc. Prof. of Physics	Indiana University Kokomo
Christian Chauret, PhD	Dean of School of Sciences, Prof. Biology	Indiana University Kokomo
Heidi Sebastian, BSRT	Clinical Professor Radiography	Indiana University Kokomo
Anne Bost, PhD	Assistant Professor of Biology	Wabash College
Brad Carlson, PhD	Assistant Professor of Biology	Wabash College
Amanda Ingram, PhD	Associate Professor of Biology	Wabash College
J. H. Benedix, PhD	Winona H. Welch Professor of Biology	DePauw University
Dana Dudle, PhD	Professor of Biology	DePauw University
Bryan Hanson, PhD	Professor of Chemistry	DePauw University
Sarah Lee, PhD	Assistant Professor of Biology	DePauw University
Jennifer Everett, PhD	Assoc. Prof. of Philosophy, Co-Director, Environmental Fellows Program	DePauw University
Bruce Serlin, PhD	Associate Professor of Biology	DePauw University
Harry Brown, PhD	Prof. of English - Environmental Studies	DePauw University
J Mills, PhD	Professor of Geosciences	DePauw University
Wade Hazel, PhD	Profesor of Biology	DePauw University
Anthony Buratta, MLA	Sustainability Director	DePauw University
Darrin Rubino, PhD	Professor of Biology	Hanover College
Glene Mynhardt, PhD	Assistant Professor of Biology	Hanover College
Alice Heikens, PhD	Professor of Biology	Franklin College
Steve Browder, PhD	Professor of Biology	Franklin College
David Carlson, PhD	Professor of Philosophy	Franklin College

ChristopherK. Woods	Biology Lab Coordinator	Franklin College
Don Ruch, PhD	Profesor of Biology	Ball State University
John Taylor, MS	Field Station Land Manager	Ball State University
Joshua Gruver, PhD	Associate Professor of Natural Resource	Ball State University
Bangshuai Han., PhD	Assistant Professor of Natural Resource Management	Ball State University
Amy Gregg, PhD	Professor of Natural Resources and Environmental Management	Ball State University
Jess Ghezzi, PhD	Assistant Professor of Natural Resources and Environmental Management	Ball State University
Stan Ross, NREM and FSEEC	Instrumentation Technician	Ball State University
Emily Hart	Grad Assistant Natural Resource Management	Ball State University
Jacob Price	Grad Assistant Biology	Ball State University
Tom McConnell, PhD	Associate Professor of Biology	Ball State University
John McKillip, PhD	Associate Professor of Biology	Ball State University
Josephine DeSouza, PhD	Associate Professor of Biology	Ball State University
David LeBlanc, PhD	Professor of Biology	Ball State University
Mark Pyron, PhD	Professor of Biology	Ball State University
Randall J. Roper, PhD	Associate Professor, Biology	IUPUI
John Watson, PhD	Associate Professor, Biology	IUPUI
Stephen K. Randall, PhD	Professor of Biology	IUPUI
Bonnie Blazer-Yost, PhD	Profesor of Biology	IUPUI
Patricia Clark, MS	Biology Lecturer	IUPUI
Teri Belecky-Adams, PhD	Associate Professor of Biology	IUPUI
Brenda Blacklock, PhD	Senior Lecturer, Chemistry	IUPUI
Robert Yost, PhD	Senior Lecturer, Biology	IUPUI
Guoli Dai, PhD	Associate Professor of Biology	IUPUI
James Marrs, PhD	Professor and Director of Graduate Studies, Biology	IUPUI
David Stocum, PhD	Professor and Dean Emeritus, Biology	IUPUI
Jiliang Li, PhD	Associate Professor, Biology	IUPUI
Simon J. Rhodes, PhD	Dean and Professor of Biology	IUPUI
Xianzhong Wang, PhD	Associate Professor, Biology	IUPUI
Simon J Atkinson, PhD	Interim Vice Chancellor for Research	IUPUI
Robert Minto, PhD	Assoc. Prof. Chemistry, Dir, Center for Membrane Biosciences	IUPUI
Jason Meyer, PhD	Associate Professor of Biology	IUPUI
Christine Picard, PhD	Assistant Professor of Biology	IUPUI
Lata Balakrishnan, PhD	Assistant Professor of Biology	IUPUI
Nicholas Berbari, PhD	Assistant Professor of Biology	IUPUI
Theodore R. Cummins, PhD	Professor and Chair of Biology	IUPUI
Catherine A. Macris, PhD	Assistant Professor, Earth Sciences	IUPUI
Kathy Licht, PhD	Associate Professor, Earth Sciences	IUPUI
Jennifer Nelson, MS	Lecturer, Earth Sciences	IUPUI
Pierre-André Jacinthe, PhD	Professor, Earth Sciences	IUPUI
Broxton Bird, PhD	Assistant Professor, Earth Sciences	IUPUI

Jake Mosely	Lab Coordinator, Earth Sciences	IUPUI
William P Gilhooly III, PhD	Assistant Professor, Earth Sciences	IUPUI
Lin Li, PhD	Professor, Earth Sciences	IUPUI
Kathryn Maneiro, PhD	Lecturer, Earth Sciences	IUPUI
Gregory K Druschel, PhD	Associate Professor, Earth Sciences	IUPUI
Lixin Wang, PhD	Assistant Professor, Earth Sciences	IUPUI
Victoria Schmalhofer, PhD	Assistant Director of CEES, Earth Sciences	IUPUI
Samuel Kaufman Ansaldi	Education Specialist at CEES, Earth Sciences	IUPUI
Kathleen Marrs, PhD	Associate Professor of Biology	IUPUI
Martin Vaughan, PhD	Lecturer, Biology	IUPUI
Denise Slayback-Barry, PhD	Lecturer, Biology	IUPUI
Herb Manifold, MS	Environmental Coordinator	Manchester University
Suzanne Beyeler, PhD	Assistant Professor of Environmental Studies	Manchester University
Jerry Sweeten, PhD	Professor of Biology	Manchester University
Edward R. Braun	Fisheries Scientist	Retired/ IDNR
Kristen Short, PhD	Associate Professor of Biology	Manchester University
Dylan Scott	Environmental Studies Scholar	Manchester University
Cassandra Root	Environmental Studies Scholar	Manchester University
Paul Rothrock, PhD	Associate Curator	Indiana University Bloomington
Jeff Ehman, PhD	Adjunct Instructor, SPEA	Indiana University Bloomington
Clara Cotton, PhD	Senior Lecturer, Biology	Indiana University Bloomington
Carl Kulow, PhD	Senior Lecturer, Biology	Indiana University Bloomington
Abigail Garrett	Graduate Student Biology	Indiana University Bloomington
Karen Bush, PhD	Professor, Biotechnology	Indiana University Bloomington
Brian Calvi, PhD	Professor of Biology	Indiana University Bloomington
Olivia Ballern	PhD Candidate, Biology	Indiana University Bloomington
Annie Mackenzie	Graduate Student Biology	Indiana University Bloomington
Gisela Cairo	Graduate Student Biology	Indiana University Bloomington
Galoniel Gihana	Graduate Student Biology	Indiana University Bloomington
Soni Lacefield, PhD	Associate Professor of Biology	Indiana University Bloomington
Thomas McCarthy, PhD	Postdoctoral Fellow	Indiana University Bloomington
Anastasia Gridasova, PhD	Research Associate	Indiana University Bloomington
James McKinlay, PhD	Assistant Professor	Indiana University Bloomington
Keith Clay, PhD	Distinguished Professor of Biology	Indiana University Bloomington
Brianna Crawley	Graduate Student Biology	Indiana University Bloomington
Lynda Delph, PhD	Distinguished Professor of Biology	Indiana University Bloomington
Ellen Ketterson, PhD	Distinguished Professor of Biology	Indiana University Bloomington
Julia van Kessel, PhD	Assistant Professor of Biology	Indiana University Bloomington
Brianna Whitaker	Graduate Student Biology	Indiana University Bloomington
Adam M. Fudickar, PhD	Research Scientist	Indiana University Bloomington
Paul Caccamo	Graduate Student Biology	Indiana University Bloomington
Jeff Palmer, PhD	Distinguished Professor of Biology	Indiana University Bloomington

lan Barton	Graduate Student Biology	Indiana University Bloomington
Aisha Burton	Graduate Student Biology	Indiana University Bloomington
Melene Thompson	Graduate Student Biology	Indiana University Bloomington
Justin Eagan, PhD	Research Associate	Indiana University Bloomington
Rich Phillips, PhD	Associate Professor of Biology	Indiana University Bloomington
Eric R. Knox, PhD	Senior Scientist	Indiana University Bloomington
Jason Tennessen, PhD	Assistant Professor of Biology	Indiana University Bloomington
James Ford, PhD	Research Associate, Lab Manager	Indiana University Bloomington
David Miller, PhD	Research Associate	Indiana University Bloomington
Roger Hangarter, PhD	Distinguished Professor of Biology	Indiana University Bloomington
Miriam Zolan, PhD	Professor of Biology	Indiana University Bloomington
Nadimira Dragnea, PhD	Assistant Scientist - Biology	Indiana University Bloomington
Ke Hu, PhD	Associate Professor of Biology	Indiana University Bloomington
John Murray, PhD	Senior Scientist	Indiana University Bloomington
Jun Liu, PhD	Assistant Scientist - Biology	Indiana University Bloomington
Amanda Rollin, PhD	Research Associate	Indiana University Bloomington
Jacqueline Leung, PhD	Postdoctoral Fellow	Indiana University Bloomington
Ram Podicheti, PhD	Research Associate Center for Genomics	Indiana University Bloomington
Vibhor Mishra, PhD	Postdoctoral Fellow	Indiana University Bloomington
Craig Pikaard, PhD	Professor of Biology	Indiana University Bloomington
Andrew Loffer	PhD Candidate, Biology	Indiana University Bloomington
Dalen Fultz, PhD	Postdoctoral Fellow	Indiana University Bloomington
Dingxia Feng, PhD	Postdoctoral Fellow	Indiana University Bloomington
Feng Wang, PhD	Postdoctoral Fellow	Indiana University Bloomington
Brian Rutter	PhD Candidate, Biology	Indiana University Bloomington
Matthew Helm	PhD Candidate, Biology	Indiana University Bloomington
Bogdan Dragnea, PhD	Provost, Professor of Chemistry	Indiana University Bloomington
C. Chang Kao, PhD	Professor, Director of Biotechnology	Indiana University Bloomington
Irina Tsvetkova, PhD	Research Scientist Chemistry	Indiana University Bloomington
David E. Clemmer, PhD	Distinguished Professor of Chemistry	Indiana University Bloomington
Tae Hee Hwang, PhD	Assistant Professor of Geography	Indiana University Bloomington
Darren L. Ficklin, PhD	Assistant Professor of Geography	Indiana University Bloomington
Scott Robeson, PhD	Professor of Geography	Indiana University Bloomington
Justin Maxwell, PhD	Assistant Professor of Geography	Indiana University Bloomington
Michael Hamburger, PhD	Professor of Geological Sciences	Indiana University Bloomington
Laura Wasylenki, PhD	Associate Professor of Geological Sciences	Indiana University Bloomington
Cody Kirkpatrick, PhD	Lecturer, Atmospheric Science	Indiana University Bloomington
Paul Staten, PhD	Assistant Professor, Atmospheric Sciences	Indiana University Bloomington
Douglas Tebo	Graduate Student Geological Science	Indiana University Bloomington
Mathew Shirley	Graduate Student Geological Science	Indiana University Bloomington
Sally L. Letsinger, PhD	Research Hydrogeologist, Indiana Geological Survey	Indiana University Bloomington
Robert James Autio, MS	Research Geologist, Center for Geospatial Data Analysis	Indiana University Bloomington

Shawn Naylor, MS	Research Hydrogeologist, Director of the Center for Geospatial Data Analysis	Indiana University Bloomington
Tracy Branam, MS	Research Geochemist, Center for Geospatial Data Analysis	Indiana University Bloomington
Bruce J. Douglas, PhD	Senior Lecturer and Director, IU Judson Mead Geologic Field Station	Indiana University Bloomington
Brian Yanites, PhD	Assistant Professor of Geological Sciences	Indiana University Bloomington
Kaj Johnson, PhD	Associate Professor of Geological Sciences	Indiana University Bloomington
Edward Herrmann, PhD	Research Scientist, Geological Sciences	Indiana University Bloomington
Arndt Schimmelmann, PhD	Senior Scientist, Geological Sciences	Indiana University Bloomington
Jordan M. Marshall, PhD	Associate Professor of Biology	IUPU - Fort Wayne
Jayanth Daniel, PhD	Assistant Professor of Biology	IUPU - Fort Wayne
Punya Nachappa, PhD	Associate Professor of Biology	IUPU - Fort Wayne
Robert Gillespie, PhD	Associate Professor of Biology, Director of Crooked Lake Biological Station	IUPU - Fort Wayne
Bruce Kingsbury, PhD	Professor, Associate Dean, Director of Environmental Resources Center	IUPU - Fort Wayne
George Mourod, PhD	Professor of Biology	IUPU - Fort Wayne
Richard A. Bennett	Associate Professor, Biology	University of Southern Indiana
Eric S. McCloud	Associate Professor, Biology	University of Southern Indiana
James H. Bandoli	Professor Emeritus, Biology	University of Southern Indiana
Greg Mendel	Instructor, Biology	University of Southern Indiana
Edith Hardcastle	Associate Professor, Biology	University of Southern Indiana
R. Brent Summers	Associate Professor, Biology	University of Southern Indiana
Cindy R. Deloney-Marino	Professor, Biology	University of Southern Indiana
Kyle Mara	Assistant Professor, Biology	University of Southern Indiana
James Durbin	Associate Professor, Geology and Physics	University of Southern Indiana
Anton H. Maria	Associate Professor, Geology and Physics	University of Southern Indiana
Paul Doss	Professor, Geology and Physics	University of Southern Indiana
James A. Brenneman	Professor Emeritus of Biology	University of Evansville
Laurie Eberhardt, PhD	Professor of Biology	Valparaiso University
Robert Swanson, PhD	Professor of Biology	Valparaiso University
Bharath Ganesh Babu, PhD	Assoc. Professor of Geography	Valparaiso University
Michael Longan, PhD	Professor of Geography	Valparaiso University
Zuhdi Aljobeh, PhD	Associate Professor of Civil Engineering	Valparaiso University
Julie Peller, PhD	Associate Professor of Chemistry	Valparaiso University
Angie Shelton, PhD	Environmental Science Teacher	Bloomington High School North
Rae Schnapp, PhD	Conservation Director	Indiana Forest Alliance