

Appendix C
Environmental Studies Advisory Board

Advisory Board Members, 2001-2007							
Faculty Member (DEPT)	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
Abrams, Eliot (ANTH)		X	X	X	X	X	X
Boone, Chris (GEOG)	X	X	X				
Brown, Kim (PBIOS)		X	X	X	X	X	X
Chimeli, Ariaster (ECON)			X	X	X	X	
Coombs, Gary (BUS)	X	X					
Crist, Kevin (HEALTH) (CHEME)		X					X
Jackson, Glen (CHEM)			X	X	X	X	X
Lein, Jim (GEOG) ¹				X	X	X	X
Lopez, Dina (GEOL)				X			X
Martin, Bruce (REC & SPORTS)							X
Manring, Nancy (POLS)	X	X	X	X	X	X	X
McCord, Bruce (CHEM)		X					
Morrone, Michele (HEALTH)	X						
Parker, Wendy (PHIL)							X
Reifler, Guy (CIVIL E)		X	X				
Roosenburg, Willem (BIOS)							X
Ryan, Tim (HEALTH)			X	X	X	X	X
Stoertz, Mary (GEOL)	X	X	X		X	X	
Stuart, Ben (CIVIL E)	X	X	X				
White, Matt (BIOS) ²	X	X	X	X	X	X	

¹ Chair, 2006-2008.

² Chair, 2001-2006

Current Environmental Studies Advisory Board Members

James Lein, ESAB Chair, 2007-2009

Dr. James Lein is a Professor of Geography at Ohio University and currently serves as the Regional Director for the Eastern Great Lakes Region of the American Society for Photogrammetry and Remote Sensing. He served as the *Executive Director of the OhioView Consortium for Remote Sensing Research and Education* from 2002 to 2007. Prior to this appointment, Lein was Deputy Director of the OhioView Consortium and also served a concurrent term as a *Member of the Board of Directors with the USGS AmericaView Program*. Lein has served on the faculty at Ohio University since 1989 and specializes in environmental assessment, land resource analysis, applied physical geography and the application of remote sensing & GIS. His teaching focuses on environmental assessment and planning, physical geography and the geographic techniques. while his research interests center on monitoring of land use / land cover change, the integration of remote sensing and geographic information systems in natural hazard risk assessment. Lein is a member of the Association of American Geographers, the American Society for Photogrammetry and Remote Sensing, and the National Association of Environmental Professionals.

Recent Publications

James K. Lein and Nicole Stump, Modeling Wildfire Potential in Southeastern Ohio using Geospatial Technology”, *Journal of Applied Geography*, in Press.

James K. Lein, Remote Sensing for Homeland Security: Assessing Vulnerability, *Earth Imaging Journal*, 5, 2008, 20-31.

James K. Lein, and Karis L. Day, Assessing the Growth Inducing Impact of Infrastructure Development in Appalachian Ohio”, *Land Use Policy*, 25, 2008, 523-532.

Geospatial Solution to Bird Strike Mitigation and Hazard Identification, *Papers of the Applied Geography Conference*, 29, 2006, 123-132.

Toward the Rapid Characterization of the Built Environment Within the Wildland-Urban Interface: A Soft Classification Strategy," *GIScience and Remote Sensing*, 43, 2006, 179-196.

Recent Grants

SCAN-1: Sensor and Communications Airship Network “, US Army SMDB Laboratory / Ohio Aerospace Institute, \$154,840, (9/1/2007-8/31/2008), R. Beck (P.I.) with co-grantees, K. Hinkle, and J.Lein.

Spatial Analysis for Forest Stewardship Evaluation in Ohio, Ohio Department of Natural Resources- Division of Forestry, \$25,000 (6/30/2006 - 7/1/2007), J. Lein (PI).

Eliot Abrams

Professor

Ph.D.: Pennsylvania State University, 1984

Areas of Specialization:

Mesoamerican Archaeology, Ohio Valley Archaeology, Architecture, Economics

Courses Taught:

Anth 202: Introduction to World Archaeology

Anth 361: North American Prehistory

Anth 370: Mexican/Central American Prehistory

Anth 452: Anthropological Archaeology

Anth 465: Fieldschool in Ohio Archaeology

Anth 494C: Seminar in Archaeological Anthropology

Selected Publications:

Peoples, Nicole, Elliot M. Abrams, AnnCorinne Freter, Brad Jokisch, and Paul Patton. 2008. "The Taber Well Site (33HO611): A Middle Woodland Habitation and Surplus Lithic Production Site in the Hocking Valley, Southeastern Ohio." *Midcontinental Journal of Archaeology* 33: 107–128.

Spertzel, Stacy, Elliot M. Abrams, AnnCorrine Freter, and Gregory Springer. 2007. "Facing Monday Creek Rockshelter (33HO414): A Late Woodland Hunting Location in Southeastern Ohio." *Pennsylvania Archaeologist* 77: 53-70.

Arco, Lee and Elliot Abrams. 2006. "An Essay on Energetics: the Construction of the Aztec Chinampa System." *Antiquity* 80: 906-18.

Abrams, Elliot and Ann Freter, co-editors. 2005. *The Emergence of the Moundbuilders: Tribal Societies of Southeastern Ohio*. Athens, OH: Ohio University Press.

Abrams, Elliot and Ann Freter. 2005. "The Archaeological Research History and Environmental Setting of the Hocking River Valley, Southeastern Ohio" in *The Emergence of the Moundbuilders: Tribal Societies of Southeastern Ohio*. Athens, OH: Ohio University Press.

Abrams, Elliot and Nicole Stump, Ann Freter, James Lein. 2005. "A Preliminary GIS Analysis of Hocking Valley Archaic and Woodland Settlement Trends" in *The Emergence of the Moundbuilders: Tribal Societies of Southeastern Ohio*. Athens, OH: Ohio University Press.

Kevin C. Crist, PhD

Dr. Crist is a Professor in the Department of Chemical Engineering, in the Russ College of Engineering and Technology. Dr. Crist is also Director of the Air Quality Center at the Institute for Sustainable Energy & the Environment, which supports and coordinates research, educational programs and community outreach in order to meet the challenges of protecting environmental quality and jobs in the Ohio River Valley Region. Dr. Crist's research interests include: urban- and regional-scale air-quality monitoring; emission inventory assessments; and photochemical, dispersion, and radiative transfer modeling.

Publications

J. Farhni, M. Kim, K. Crist, D. Connell, and S. Winter, The Episodic Nature of Ambient Mercury at a Rural Ohio River Valley Supersite, submitted to *Atmospheric Environment*, 2008
K. Crist, B. Liu, M. Kim, S. Deshpande, and K. John, Characterization of Fine Particulate Matter in Ohio: Indoor, Outdoor, and Personal Exposures, *Environmental Research*, V 106: 62-71, 2008
M. Kim, S. Deshpande, and K. Crist, *Source Apportionment of Fine Particulate Matter (PM_{2.5}) at a Rural Ohio River Valley Site, Atmospheric Environment, V41: 9231-9243, 2007*
K. John, , S. Karnae, K. Crist, and M. Kim, Analysis of Trace Elements and Ions in Ambient fine Particulate Matter at Three Elementary Schools in Ohio, *J. of AWMA*, 57:394-406, 2007

D. Connell, S. Winter, V. Conrad, M. Kim, and K. Crist, The Steubenville Comprehensive Air Monitoring Program (SCAMP): Concentrations and Solubilities of PM_{2.5} Trace Elements and Their Implications for Source Apportionment and Health Research, *J of AWMA*, 56:1750-1766, 2006

Grants

1. *Research and Sustainability Activities for Air Quality Initiatives*, EPA, **\$480,000**, 09/01/07-09/01/09
2. *Atmospheric Mercury Monitoring Services to Operate Tekran Automated Mercury Speciation Units and Related Equipment - Ohio River Valley*, EPA, **\$150,000**, 12/10/07-12/10/09
3. *Development of a Fine Grid Urban Airshed Modeling Tool for Air Quality Planning and Analysis*, OAQDA, **\$64,000**, 04/16/07-04/16/08
4. *Northeast Ohio Region PM 2.5 Forecasting*, NOACA, **\$45,000**, 01/01/07- 12/30/07
5. *Assessing the Methods of Alleviating Impacts from Persistent Bioaccumulative Toxins (PBTs) on Human Health and the Environment in the Great Lakes Basin*, GLAD, **\$146,000**, 08/16/06-08/16/08

Glen Jackson

*Assistant Professor, Analytical Chemistry
Ph.D., West Virginia University*

Area of Specialization

Mass Spectrometry and Separations Development

Courses Taught

Chem 241: Quantitative Analysis

Chem 728: Separations

Chem 487A: Forensic Chemistry

Selected Publications

C. A. Zimmermann, Ü. A. Laskay, G. P. Jackson, "Analysis of Suspected Trace Human Remains From an Indoor Concrete Surface" *J. Forens. Sci.* submitted.

Ü. A. Laskay, O. L. Collin, J. J. Hyland, Brad. Nichol, S. P. Pasilis, D. C. Duckworth, G. P. Jackson, "Dynamic Collision-Induced Dissociation (DCID) a Quadrupole Ion Trap Using a Two-Frequency Excitation Waveform: II. Effects of Excitation Frequency and Scan Rate" *J. Am. Soc. Mass Spectrom.* 18 (2007) 2017-2025.

O. L. Collin, M. Beier, G. P. Jackson, "Dynamic Collision-Induced Dissociation (DCID) of Peptide Ions in a Quadrupole Ion Trap Mass Spectrometer" *Anal. Chem.* 79 (2007) 5468-5473.

Ü. A. Laskay, J. J. Hyland, G. P. Jackson, "Dynamic Collision-Induced Dissociation (DCID) a Quadrupole Ion Trap Using a Two-Frequency Excitation Waveform: I. Effects of Excitation Amplitude and Phase Angle" *J. Am. Soc. Mass Spectrom.* 18, (2007) 749-761.

O. L. Collin, C. Niegel, K. E. DeRhodes, B. R. McCord, G. P. Jackson, "Fast-GC of Explosive Compounds Using a Pulsed Discharge Electron Capture Detector" *J. Forensic Sci.* 51(4) (2006) 815-818.

G. P. Jackson, J. J. Hyland, Ü. A. Laskay, "Energetics and Efficiencies of Collision-Induced Dissociation Achieved During Mass Acquisition in a Quadrupole Ion Trap Mass Spectrometer," *Rapid Commun. Mass Spectrom.* 19, (2005) 3555-3563.

Bruce Martin

Assistant Professor

School of Recreation & Sport Science

Bruce Martin, PhD, is an assistant professor in the School of Recreation & Sport Sciences at Ohio University, specializing in outdoor recreation and education. He taught at Sheldon Jackson College in Sitka, Alaska for two years and at the University of Northern Colorado in Greeley, Colorado for four years. He joined the faculty at Ohio University in 2006. Dr. Martin earned his Ph. D. in Social Foundations of Education from the University of Virginia in 2000, his M. S. in Human Dimensions of Natural Resources from Colorado State University in 2007, his M. S. in Experiential Education from Minnesota State University, Mankato in 1994, and his B. A. in History from Virginia Commonwealth University in 1992.

Research Interests

Dr. Martin's current research interests are focused in the areas of environmental ethics, outdoor leadership, and psychosocial processes and outcomes related to adventure programming.

Recent Publications

Martin, B. (2003). *Wayside attractions: The negotiation of aspirations and careers among African-American adolescent males in an urban alternative school*. Creskill, NJ: Hampton Press.

Martin, B., Cashel, C., Wagstaff, M., and Breunig, M. (2006). *Outdoor leadership: Theory and practice*. Champaign, IL: Human Kinetics.

Goldenberg, M., and Martin, B. (Editors) (2008). *Outdoor adventures: Hiking and backpacking*. Champaign, IL: Human Kinetics.

Dina Lopez

Associate Professor, Geological Sciences
PhD, 1992 Louisiana State University (Geology)

Research Interests

My research interests include the geochemistry and hydrogeology of geothermal systems, including diffuse soil degassing and heat flow studies. My areas of research are located in Central America (Costa Rica and El Salvador), and in Tenerife, Canary Islands, Spain. I am also interested in environmental problems associated to mining and resource exploitation. Within Ohio, I investigate the chemistry, fluid flow, and mass transfer associated with acid mine drainage from coal mines.

Representative Publications

Lopez D.L., Bundschuh, J., Soto, G.J., Fernandez, J.F., and Alvarado, G.E., 2006. Chemical evolution of thermal springs at Arenal volcano, Costa Rica: Effect of volcanic activity, precipitation, seismic activity, and earth tides. *Geothermal Resources Council Transactions*, v. 157, p. 166-181.

Lopez D.L., Casreo, M., Matus, A., Reyes Lopez, J., Guevara, W., Montalvo, F., and Guerra, C.E., 2006. Assessment of silica scaling around injection wells of the Berlin Geothermal Field, El Salvador, using field experiments and chemical modeling, *Geothermal Resources Council Transactions*, v. 30, p. 501-506.

Lopez, D.L., Padron, E., Magaña, M.I., Gómez, L., Barrios, L.A., Pérez, N.M. and Hernández, P., 2004. Structural Control on Thermal Anomalies and Diffuse Surficial Degassing at Berlín Geothermal Field, El Salvador. *Geothermal Resources Council Transactions*, Vol. 28, p. 477-483

Lopez D.L., Ransom, L., Perez, N., Hernandez, P. and Monterrosa, J., 2004. Dynamics of diffuse degassing at Ilopango Caldera, El Salvador. Rose, W.I., Bommer, J.J., **Lopez, D.L.**, Carr, M.J., and Major, J.J. editors, Geological Society of America Special Paper No. 375 "Natural Hazards in El Salvador", pp. 191-202

Cartagena, R., Olmos, R., **Lopez, D.L.**, Soriano, T., Barahona, F., Hernández, P. and Perez, N., 2004. Diffuse soil degassing of carbon dioxide, radon, and mercury at San Miguel Volcano, El Salvador.

Rose, W.I., Bommer, J.J., **Lopez, D.L.**, Carr, M.J., and Major, J.J. editors, Geological Society of America Special Paper No. 375 "Natural Hazards in El Salvador", pp. 203-212.

Carroll, K., **Lopez, D.L.**, and Stoertz, M., 2003. Solute transport at low flow in an acid stream in Appalachian Ohio. *Air, Water and Soil Pollution*, vol. 144, pp. 195-222.

Wendy Parker

Assistant Professor
Department of Philosophy

Ph.D. History and Philosophy of Science, University of Pittsburgh, 2003

Research Interests

- General philosophy of science
- Models and computer simulation (especially climate modeling), Prediction, Evidence, Explanation
- Science and public policy
- History of atmospheric science / meteorology

Recent Publications

“Franklin, Holmes and the Epistemology of Computer Simulation”, *International Studies in the Philosophy of Science*, accepted.

“Does Matter Really Matter? Computer Simulations, Experiments and Materiality”, *Synthese*, accepted.

“Distinguishing Real Results from Instrumental Artifacts: The Case of the Missing Rain”, in Giora Hon, Jutta Schickore, and Friedrich Steinle (Eds.), *Going Amiss in Experimental Research*, in press.

“Computer Simulation through an Error-Statistical Lens”, *Synthese*, 2008.

“Understanding Pluralism in Climate Modeling”, *Foundations of Science*, 2006.

“Rain Measurement on Ship Revisited”, with Sandra E. Yuter, *Journal of Applied Meteorology*, 2001.

Tim Ryan

Associate Professor
Environmental Health and Industrial Hygiene

Ph.D., University of Texas School of Public Health

Research Interests

- Indoor Air Quality
- Video Exposure Assessments
- Volatile Organic Pollutants
- Distance Education

Recent Publications

Burroughs, GE; Makos, K; Hawks, C; Ryan, TJ. 2006. Exposure of Museum Conservation Staff to Formaldehyde During Some Wet Specimen Activities. *Collection Forum*. 20(1-2):49-54.

Gunderson, Ellen C. (Ed.). 2006. *The IAQ Investigator's Guide*. Stock #IAQG06-144. Fairfax, VA: American Industrial Hygiene Association.

Hung, L-L; Miller, JD; Dillon, HK. 2005. Section 7.3 Microbial Volatile Organic Compounds (MVOCs). In *Field Guide for the Determination of Biological Contaminants in Environmental Samples (2nd ed.)*. Fairfax, VA: American Industrial Hygiene Association.

Dotson, KB; Patton, LE; Ryan, TJ; Throckmorton, JV; Weekes, DM. 2004. Assessment, Remediation, and Post-Remediation Verification of Mold in Buildings. *AIHA Guideline 3-2004*. Stock #IAQG04-659. Fairfax, VA: American Industrial Hygiene Association.

Ryan, Timothy J. 2003. Biohazards in the Work Environment. In Salvatore R. DiNardi (Ed.), *The Occupational Environment: It's Evaluation, Control, and Management (2nd ed.)*. Fairfax, VA: American Industrial Hygiene Association.

Ryan, Timothy J. 2003. Environmental Safety Programs. In *Local Board of Environmental Health Primer*. Washington, D.C.: National Association of Local Boards of Health – National Environmental Health Science and Protection Accreditation Council.

