

Biological Sciences

Refereed publications and book chapters

Amon, J.P. and K. H. French. 2004. Photoresponses of the marine protist *Ulkenia* sp. zoospores to ambient, artificial and bioluminescent light. *Mycologia* 96: 463-469.

Bohrer, K.E., C.F. Friese and J.P. Amon. 2004. Seasonal Dynamics of arbuscular mycorrhizal fungi in differing wetland habitats. *Mycorrhiza* 14:329-337.

Arlan LG, Morgan MS, Neal JS. 2004. Extracts of scabies mites (*Sarcoptidae*: *Sarcoptes scabiei*) modulate cytokine expression by human peripheral blood mononuclear cells and dendritic cells. *J Med Entomol.* 41:69-73.

Arlan LG, Morgan MS, Estes SA, Walton SF, Kemp DJ, Currie BJ. 2004. Circulating IgE in patients with ordinary and crusted scabies. *J Med Entomol.* 41:74-77.

Lalli PN, Morgan MS, Arlian LG. 2004. Skewed Th1/Th2 immune response to *Sarcoptes scabiei*. *J Parasitology* 90:711-714.

Walton SF, Dougall A, Holt S, Taplin D, Arlian LG, Morgan M, Currie BJ, Kemp DJ. Genetic epidemiology of *Sarcoptes scabiei*. *International Journal of Parasitology*, 34:839-849.

Rachael M. Hampton and Scott E. Baird Reproductive Isolation of *C. briggsae* Haplotypes, East Coast Worm Meeting, June 11-13, 2004, New Haven CT

Scott E. Baird and Christine R. Spice Association of *Oscheius* species with Millipedes in the Wright State Woods, East Coast Worm Meeting, June 11-13, 2004, New Haven CT

Shannon H. Romer and Scott E. Baird Sex reversal of *C. briggsae*:*C. remanei* F1 hybrids. Ohio Worm Meeting. November 6, 2004, Columbus OH

Landrum PF, Leppanen M, Robinson SD, Gossiaux DC, Burton GA, Greenberg M, Kukkonen JVK, Eadie BJ, Lansing MB. Effect of 3,4,3',4'-tetrachlorobiphenyl on the reworking behavior of *Lumbriculus variegatus* exposed to contaminated sediment. 2004. *Environ. Toxicol. Chem.* 23:178-186.

Landrum PF, Leppanen M, Robinson SD, Gossiaux DC, Burton GA, Greenberg M, Kukkonen JVK, Eadie BJ, Lansing MB. 2004. Comparing behavioral and chronic endpoints to evaluate the response of *Lumbriculus variegatus* to 3,4,3',4'-tetrachlorobiphenyl. *Environ. Toxicol. Chem.* 23:187-194.

Burton GA Jr, Nordstrom JF. 2004. An in situ toxicity identification evaluation method. I. Lab Validation. *Environ Toxicol Chem* 23:2844-2850.

Burton GA Jr, Nordstrom JF. 2004. An in situ toxicity identification evaluation method. II. Field Validation. *Environ Toxicol Chem* 23:2851-2855.

Burton GA Jr., Greenberg MS, Rowland CD, Irvine CA, Lavoie DR, Brooker JA, Eggert LM, Raymer DFN, McWilliam RA. 2005. In situ exposures using caged organisms: a multi-compartment approach to detect aquatic toxicity and bioaccumulation. *Environ. Pollut.* 134(1):133-144.

Lankoff, A., Carmichael, W.W., Grasman, K.A., and Yuan, M. 2004. The uptake kinetics and immunotoxic effects of microcystin-LR in human and chicken peripheral blood lymphocytes in vitro. *Toxicology*. 204:23-40.

Yuan, M. and Carmichael, W.W. 2004. Detection and Analysis of the Cyanobacterial Peptide Hepatotoxins Microcystin and Nodularin Using SELDI-TOF Mass Spectrometry. *Toxicon*. 44(5): 561-570.

Pereira, P; Li, Renhui; Carmichael, W. W.; Dias, E.; Franca, S. 2004. Taxonomy and production of paralytic shellfish toxins by the freshwater cyanobacterium *Aphanizomenon gracile* LMECYA40. *European Journal of Phycology*, 39 (4): 361-369.

Cipollini, D. F., S. Enright, B. Traw, and J. Bergelson. 2004. Salicylic acid inhibits jasmonic acid-induced resistance of *Arabidopsis thaliana* to *Spodoptera exigua*. *Molecular Ecology* 13: 1643-1653.

Cipollini, D.F. 2004. Stretching the limits of plasticity: can a plant defend itself from both competitors and herbivores? *Ecology* 85: 28-37 (Special Feature on Phytohormonal Ecology)

Goldstein, D. L., S. Newland, and P. Calloway. 2004. Water balance and kidney function in the least shrew *Cryptotis parva*. *Comp. Biochem. Physiol.* 139: 71-76.

Lankoff, A., W.W.Carmichael, K.A. Grasman, and M., Yuan. 2004. The uptake kinetics and immunotoxic effects of microcystin-LR in human and chicken peripheral blood lymphocytes in vitro. *Toxicology* 204: 23-40.

Fairbrother, A., J. Smits, and K.A. Grasman. 2004. Avian Immunotoxicology. *Journal of Toxicology and Environmental Health B* 7:1-33.

Gilder, J. R., S. Ford, T. E. Doom, M. L. Raymer and D. E. Krane. 2004. Systematic differences in electropherogram peak heights reported by different versions of the GeneScan software. *Journal of Forensic Sciences*, 49:92-95.

Doom, T., M. Raymer, and D. Krane. 2004. Bioinformatics: Where biology meets computer science. *IEEE Potentials* 23:24-28.

Krane, D. E., T. E. Doom, L. D. Mueller, M. L. Raymer, W. M. Shields and W. C. Thompson. Commentary on "CODIS STR loci data from 41 sample populations." *Journal of Forensic Sciences*, November 2004, 49(6).

Krane, D. E. "Molecular Evolution." Invited contribution of Chapter 25 of the second edition of Peter Russell's *iGenetics* and first edition of *Essential Genetics*, published by Benjamin/Cummings. 49 pages with ten illustrations. Published in Fall, 2004.

Krane, D. E. and W. C. Thompson. 2004. DNA in the courtroom. *Psychological and Scientific Evidence in Criminal Trials*, Chapter 11 (144 pages), edited by Jane Campbell Moriarty, West, Danvers, MA.

Partecke, J., T.J. Van't Hof, and E. Gwinner. 2004b. Seasonal timing of avian reproduction in an urban and a non-urban environment. *Journal of Avian Biology* 34:

Partecke, J., T.J. Van't Hof, and E. Gwinner. 2004a. Differences in the timing of reproduction between urban and forest European Blackbirds (*Turdus merula*): Result of phenotypic flexibility or genetic differences? *Proc. R. Soc. Lond. B* 271:1995-2001.

Presentations and invited talks

Amon, J.P. and C. Jacobson. 2004. Making Fens. Annual meeting of the Society of Wetland Scientists, Seattle, Washington(July).

Valerio C, Murray P, Arlian LG, Slater JE. Endotoxin in dust mite allergen extracts. American Academy of Allergy, Asthma and Immunology. March 19-23, 2004, San Francisco, CA.

Arlian LG, Kondreddi P, Yadav A, Arlian LG, Morgan MS. Storage mite sensitization. American Academy of Allergy, Asthma and Immunology. March 19-23, 2004, San Francisco, CA.

Arlian LG, Morgan MS. Lymphocyte response to *Sarcoptes scabiei*. *Am Soc Trop Med Hyg* Nov 7-11, 2004, Miami, FL.

Arlian LG, Morgan MS. Immune modulators from scabies mites. *Entomol Soc America*. Nov 14-17, Salt Lake City, UT.

Sterner TR; PJ Robinson, DR Mattie, GA Burton. 2004. Preliminary analysis of algorithms predicting blood:air and tissue:blood partition coefficients from solvent partition coefficients. *Abstr. Annu Meeting Soc of Toxicology*.

Burton GA, K. Custer, S Geyer, LT Nguyen, C Janssen, R McWilliam, B Bossuyt, M Beltrami, R Baudo, A Green. 2004. Identification of stressor effects using in situ exposures of species, populations and communities. *Abstr. Annu. Meet. Soc. Environ. Toxicol. Chem. Prague, Czechoslovakia*. (invited)

Custer, K.W., G. Allen Burton. 2004. Use of indigenous species in field toxicity identification evaluation (TIE) chambers. Abstr. Annu. Meet. North American Benthological Society, Louisville, KY.

Rosiu, CJ, MS Greenberg, J Coles, FP Lyford, GA Burton Jr. 2004. Evaluation of impacts from discharge of contaminated ground water to the Sudbury River, Nyanza Chemical Waste Dump Superfund Site, Ashland, Massachusetts. Abstr. Joint Meeting of the AGU, CGU, SEG, EEGS. Montreal, May 2004.

The Society of Environmental Toxicology & Chemistry: An Overview. VIII Brazilian Congress of Ecotoxicology. Florianopolis, SC, Brazil. October. 2004.

Custer, K.W., G. Allen Burton. 2004. Use of indigenous species in field toxicity identification evaluation (TIE) chambers. Abstr. Annu. Meet. World Congress, Soc. Environ. Toxicol. Chem. Portland, OR.

Geyer, S. G. A. Burton. 2004. Optimization of an in situ Toxicity Identification Evaluation device. Abstr. Annu. Meet. World Congress, Soc. Environ. Toxicol. Chem. Portland, OR

Roberts AP, Oris JT, Clements WH, Burton GA. 2004. Development and field application of a molecular biomarker approach for exposure assessment. Abstr. Annu. Meet. World Congress, Soc. Environ. Toxicol. Chem. Portland, OR.

Burton GA. Sediment Quality Assessments: Integrated Approaches with Case Examples. Keynote Presentation, Asociacion Mesoamericana de Ecotoxicologia y Quimica Ambiental. Jiutepec, Morelos, Mexico. March 2004.

Burton GA. Stressor Identification in Freshwater Ecosystems, Keynote Presentation, VIII Brazilian Congress of Ecotoxicology. Florianopolis, SC, Brazil. October. 2004.

Carmichael, Wayne W., Moucun Yuan, Jeanette Frey and John Blakelock. Analyses of Lesser Flamingo tissues and cyanobacterial assemblages for cyanotoxins from Lake Bogoria, Kenya, Africa. Univ of Ill. Dept Vet Sci. symposium on: Transdisciplinary Symposium on Recent Mass Die-offs of Lesser Flamingos (*Phoeniconaias minor*) in Eastern and Southern Africa'. Sept. 2004.

Carmichael, Wayne W. Cyanobacteria Harmful Algae Bloom Forensics – Helping the Pieces Fit. 2004 National Water Quality Meeting and Forensic Hydrology Workshop. Loews Annapolis Hotel, Annapolis, Maryland. U.S. Geological Survey- August 31-September 2, 2004

Carmichael, Wayne W. The CyanoHABs: Effects on Water Quality and Water Use. Your Water, Your Health Your Community. Tuesday, October 19, 2004. Statesville Civic Center, Workshop sponsored by the North Carolina Division of Environmental Health.

Carmichael, Wayne W. Cyanobacteria Harmful Algae Bloom Forensics – Putting the Pieces Together. Your Water, Your Health Your Community. Tuesday, October 19, 2004. Statesville Civic Center, Workshop sponsored by the North Carolina Division of Environmental Health.

Carmichael, Wayne W. Status of Harmful Cyanobacteria Waterbloom Research in the USA– “The Cyano-HABs” Global Water Research Coalition Workshop on Current Research and Strategic Directions for the Management of Toxic Algae in Water and Drinking Water Supplies — May 4-6, 2004, Adelaide, SA-Australia (invited).

Carmichael, Wayne W. Detection, Management and Mitigation of Harmful Cyanobacteria Waterblooms: “The CyanoHABs”. 54th Annual Environmental Engineering Conference-Feb. 4, 2004-Univ of Kansas-Lawrence, Ks. (Plenary address)

Lankoff, A., W. W. Carmichael, et al. Gamma-irradiation-induced DNA damage and repair in human peripheral blood lymphocytes treated with microcystin-LR. (2004). The 33rd Meeting of the European Society for Radiation Biology, Budapest, Hungary.

Lankoff, A., W. W. Carmichael, et al. Kinetyka naprawy pojedynczo-(SSB) i podwojnoniciowych (DSB) pekniec DNA w limfocytach ludzkich traktowanych mikrocytyna-LR. (2004). XIII Zjazd Polskiego Towarzystwa Badan radiacyjnych im. Marii Sklodowkiej-Curie, Lodz.

Lankoff, A., W. W. Carmichael, et al. (2004). Naprawa DNA z wycieciem nukleotydow (NER) w limfocytach ludzkich traktowanych mikrocytyna-LR i napromienianych promieniowaniem UV in vitro. II Konferencja Krajowa--Mikrocytyny i inne mikrozanieczyszczenia w wodzie, Lodz-Trstena.

Lankoff, A., W. W. Carmichael, et al. (2004). Evidence that microcystin-LR inhibits the repair of DNA helix-distorting lesions in vitro. XI International Conference on Harmful Algal Blooms, Cape Town, South Africa.

Lankoff, A., D. Dziga, Carmichael, W.W. et al. (2004). Analysis of DNA repair in human lymphocytes following microcystin-LR treatment. Sixth Annual Conference on Toxic Cyanobacteria, Bergen, Norway

Lankoff, A., Wayne W. Carmichael , Keith A. Grasman , Moucun Yuan. The uptake kinetics and immunotoxic effects of microcystin-LR in human and chicken peripheral blood lymphocytes in vitro. Sixth Annual Conference on Toxic Cyanobacteria, Bergen, Norway.

Carmichael, Wayne W. and Moucun Yuan. A Microcystin Reaction Study: Identification and Analyses Using SELDI-TOFMS and LC/MS/MS. American Society for Mass Spectrometry. Annual meeting-Nashville Tn. May 2004 (poster).

Carmichael, W.W., Yuan, M., Friday, C. F.. Human Mortality from Accidental Ingestion of Toxic Cyanobacteria-A Case Re-examined 6th Int. Conf on Toxic Cyanobacteria. Bergen, Norway, June 21-25, 2004 (poster).

Yuan, M., Carmichael, W. W., Molica, R., Oliveira, E.J.A.. Analyses of Brazilian Strains of Anabaena for the Cyanotoxin Anatoxin-a(s) by LC/MS . 6th Int. Conf on Toxic Cyanobacteria. Bergen, Norway, June 21-25, 2004 (poster).

E. A. Dale Allen , Wayne W. Carmichael, & Bruce Keswick The Evaluation of a Flocculating Agent (PUR) for the Removal of Cyanobacteria and their Toxins from Potable Water Supplies. 6th Int. Conf on Toxic Cyanobacteria. Bergen, Norway, June 21-25, 2004 (poster).

Heather Lacey, Jerome Servaites, Renato Molica, Wayne W. Carmichael, and Moucun Yuan. Purification of the Cyanotoxin Anatoxin-a(s) and its use in Calibrating a Colorimetric Assay. 6th Int. Conf on Toxic Cyanobacteria. Bergen, Norway, June 21-25, 2004 (poster).

Hilborn ED , Carmichael WW , Servaites J , Yuan, M. Azevedo SMFO 6th An Enzyme-linked Immunosorbant Assay to Detect Microcystin in Human Serum. Int. Conf on Toxic Cyanobacteria. Bergen, Norway, June 21-25, 2004 (poster).

Frey, J.S. and Carmichael, W.W. Culture, Isolation and Analysis of Anatoxin-a, Cylindrospermopsin and Microcystin Producing Cyanobacteria in the St. Johns River Water Management District, Florida. 6th Int. Conf on Toxic Cyanobacteria. Bergen, Norway, June 21-25, 2004 (poster).

Wayne W. Carmichael, Laurie A. Carmichael and Mary C. Stukenberg CyanoHAB Search:A List of References to the toxin producing Cyanobacteria. 6th Int. Conf on Toxic Cyanobacteria. Bergen, Norway, June 21-25, 2004 (poster).

Elizabeth D. Hilborn , Wayne W. Carmichael , Jerry Servaites, Sandra M.F.O. Azevedo. Current issues in the detection of human exposure to the cyanobacteria toxins, microcystins. International Society for Environmental Epidemiology. Annual Conf. New York City. July 2004. (poster)

M. Dorning and D. Cipollini. Spring 2004 Impact of *Lonicera maackii* on individual plants and plant communities. Ohio Invasive Plants Conference. Columbus, OH.

D. Cipollini, J. Mbagwu, C. Hillstrom, K. Barto, and S. Enright. Spring 2004 Testing predictions of the Evolution of Increased Competitive Ability Hypothesis in garlic mustard (*Alliaria petiolata*): chemical defenses and growth in European and North American populations. Ohio Invasive Plants Conference. Columbus, OH.

Goldstein, D. L., C. Krane, J. Frisbie, and K. Rivera. 2004. Aquaporins in an amphibian that accumulates glycerol during cold acclimation. Society for Integrative and Comparative Biology.

Goldstein, D, Frisbie, J., Sanchez, L., Campos, C., Chen, Y., Morris, M. 2004. Effects Of Oxytocin Infusion On Renal Function In Oxytocin Knock Out Mice. Experimental Biology 2004, Wahington, D. C.

Goldstein, D. L., C. Krane, J. Frisbie, and K. Rivera. 2004. Aquaporins in an amphibian that accumulates glycerol during cold acclimation. Experimental Biology 2004, Wahington, D. C.

Goldstein, D. L., C. Krane, and J. Frisbie. Osmoregulatory aspects of cold acclimation in a freeze-tolerant amphibian. Third International Conference Of Comparative Physiology & Biochemistry In Africa: Animals And Environments, Ithala, South Africa. (Invited)

Rutkiewicz, J.M., K.A. Grasman, and G.A. Fox. 2004. Relationship between organochlorine contaminants and gastrointestinal parasites in prefledgling herring gulls (*Larus argentatus*) from the Great Lakes. 2004 meeting of the Society of Environmental Toxicology and Chemistry, Portland, Oregon, November 2004.

Kioko, S.M., K. Goff, and K.A. Grasman. 2004. Genomic profiles associated with thymic atrophy, apoptosis and cell cycle inhibition in laboratory embryonic chicken thymocytes exposed to PCB 126. 2004 meeting of the Society of Environmental Toxicology and Chemistry, Portland, Oregon, November 2004.

Speeg, B.W., K.A. Grasman, W.W. Bowerman, and D.E. Tillitt. 2004. Organochlorine contaminants in an extract derived from double-crested cormorant eggs collected in Green Bay, Wisconsin, affect the immune system of chicken embryos. 2004 meeting of the Society of Environmental Toxicology and Chemistry, Portland, Oregon, November 2004.

Kenow K.P., R.K. Hines, M.W. Meyer, W.H. Karasov, F. Fournier, D.J. Hoffman, K.A. Grasman, M.G. Spalding, and A. Gendron-Fitzpatrick. 2004. Effects of mercury exposure on the health and fitness of captive-reared common loon (*Gavia immer*) chicks. 2004 meeting of the Society of Environmental Toxicology and Chemistry, Portland, Oregon, November 2004.

Kenow K.P., R.K. Hines, M.W. Meyer, F. Fournier, W.H. Karasov, D.J. Hoffman, K.A. Grasman, M.G. Spalding, and A. Gendron-Fitzpatrick. 2004. Effects of mercury exposure on the health and fitness of captive-reared common loon (*Gavia immer*) chicks. US Geological Survey Mercury Workshop in Reston, VA.

Lankoff, A., W.W., Carmichael, K.A. Grasman, and Yuan, M. 2004. The uptake kinetics and immunotoxic effects of microcystin-LR in human and chicken peripheral blood

lymphocytes in vitro. Sixth International Conference on Toxic Cyanobacteria, Bergen, Norway, June 21-27, 2004.

Reaves, M.E., K.A. Grasman, and G.A. Fox. 2004. Effects of Persistent Organic Contaminants on the Developing Reproductive Organs of Fish-Eating Birds. Eighth International Symposium on Avian Endocrinology, Scottsdale, AZ, June 6—11.

Finkelstein M., K.A. Grasman, D. Croll, B. Keitt, W. Jarman, B. Tershy, and D. Smith. 2004. Immune Alteration In Black-Footed Albatrosses: Potential Toxic Effects From Contaminant Exposure. 31st Annual Meeting, Pacific Seabird Group, La Paz, Mexico, January 21-15, 2004.

Krane, D., M. Raymer and T. Doom. March, 2004. Bioinformatics at Wright State University. Ohio Valley Affiliates for Life Sciences, University of Louisville, Louisville, KY.

Converse, K. and D. Krane. March, 2004. Forensic DNA testing and review. "Life in the Balance" conference and annual meeting of the National Association of Criminal Defense Lawyers, Memphis, TN.

D. E. Krane, March, 2004. Evaluating forensic DNA evidence. Featured address for "Life in the Balance" conference and annual meeting of the National Association of Criminal Defense Lawyers, Memphis, TN.

D. E. Krane, April, 2004. Evaluating forensic DNA evidence. "Mindful Explorations" seminar series funded by the William H. and Jean R. Reller Endowment, Indiana University East, Richmond, IN.

Krane, D. E. October, 2004. Forensic DNA evidence: collection, mixture and degradation. Virginia State Bar Association Capital Litigation Meeting, Richmond, VA.

Krane, D. E. October, 2004. Evaluating forensic DNA evidence. Mississippi Public Defenders' Capital Litigation Meeting, Biloxi, MS.

Miller, M. W. Hyperphosphorylation of the phospholipase D2 (PLD2) isozyme in stable COS-7 and HL-60 Cells expressing the neutrophilic phenotype. J. Leukocyte Biology (Suppl.) 2004, 37th annual meeting of the Society for Leukocyte Biology

Runkle, J. Snag dynamics in mesic old-growth eastern forests Ecological Society of America annual meeting (Portland, Ore), August

Vadeboncoeur, Y. Life on the edge: putting the littoral zone back in limnology. Tanzanian Fisheries Research Institute and Nyanza Project, Kigoma, Tanzania. July 29, 2004.

Vadeboncoeur, Y. Putting the littoral zone back in limnology. Contrasting ecosystem function in Lake Tanganyika, Tanzania and Lake Tahoe, USA. Invited Departmental Seminar, Miami University, December 9, 2004.

Bauchinger, U. T.J. Van't Hof, H. Biebach. 2004. Testicular development during long-distance spring migration. SICB, New Orleans, Louisiana, January 2004

Van't Hof T.J. Invited seminar. School of Wildlife Biology, University of Tokyo, May 2004

Van't Hof T.J. Invited seminar. Yamashina Institute for Ornithology, Abiko, Japan, July 2004 This talk was attended by Princess Norinomiya Sayako, the daughter of the Emperor of Japan.

Van't Hof T.J. Invited seminar. Department of Zoology, University of Hawaii, November 2004

Invitations to participate or chair symposia

Burton, G. A. Scientific Committee, 6th International Symposium on Sediment Quality Assessment. 2004. Antwerp, Belgium

Carmichael, W. W. Invited participant-a national plan for algal toxins and harmful algal blooms participant contact information. NOAA, Charleston, S.C. March 2004.

Carmichael, W. W. Member of the International Organizing Committee for the 6th Int Conf on Toxic Cyanobacteria-Bergen, Norway June 2004.

Cipollini, D. Winter 2004 Chemical defenses in garlic mustard (*Alliaria petiolata*) and their potential role in species interactions in forest understories. D. Cipollini. USDA Interagency Conference on Gypsy Moth and other invasive species. Annapolis, MD (invited)

Cipollini, D. Winter 2004 Chemical defenses and insect resistance in garlic mustard (*Alliaria petiolata*). D. Cipollini. 16th Biennial International Plant Resistance to Insects Workshop. Baton Rouge, LA (invited)

Cipollini, D. Spring 2004 Testing evolutionary hypotheses about insect resistance in invasive plants. D. Cipollini. Multi-Trophic Interactions in Biology Workshop. Toronto, Canada. (invited)

Cipollini, D. Summer 2004 Costs of salicylate and jasmonate-mediated induced responses in *Arabidopsis thaliana*. D. Cipollini. International Congress of Entomology. Brisbane, Australia (invited)

Goldstein, D. L., C. Krane, and J. Frisbie. Osmoregulatory aspects of cold acclimation in a freeze-tolerant amphibian. Third International Conference Of Comparative Physiology

& Biochemistry In Africa: Animals And Environments, Ithala, South Africa. (Invited Symposium presentation)

Goldstein, D. L. and B. Pinshow. Taking physiology to the Field. Third International Conference Of Comparative Physiology & Biochemistry In Africa: Animals And Environments, Ithala, South Africa. (Symposium organizer)

Krane, D. Court appointed expert in the areas of molecular biology, forensic DNA testing, bioinformatics and population genetics in the following criminal proceedings where my sworn testimony in court was required; 6 cases (5 U.S., 1 Australia)

Vadoboncoeur, Y. Organized a special topics session (Benthic-Pelagic Links: Nutrient and energy flux across physically and biotically complex boundaries) for the February 2005 meeting of the American Society of Limnology and Oceanography.

Editorial board memberships

Burton, G. A. Editorial Board, Chemosphere

Burton, G. A. Editorial Board, Aquatic Ecosystem Health & Management Journal.

Wayne W. Carmichael. Journal Appl Phycol.

Wayne W. Carmichael. Toxin Reviews

Wayne W. Carmichael. Biomed and Envir Sci.

Granting Agency Study Section Memberships

Burton, G. A. Peer Review Panel. U.S. Environmental Protection Agency Region 2. Bioaccumulation Testing Evaluation Framework for Dredged Materials.

Burton, G. A. Review Panel. U.S. Environmental Protection Agency. Office of Research and Development. STAR Research Grants. Entomology. Feb. 2004.

Burton, G. A. Review Panel. U.S. Environmental Protection Agency. Office of Research and Development. STAR Research Grants. Ecological Risk Assessment. Feb. 2004.

Carmichael, W. W. EPA-ECO HAB; NIEHS-Site review panel-ARCH Program-Florida Int Univ-Miami

Goldstein, D. L. Grant review panelist, American Heart Association Eastern Region

Krane, D. Grant review panelist for the U. S. Environmental Protection Agency; EPA

Krane, D. Grant review panelist for the U. S. Environmental Protection Agency; EPA STAR fellowships program, Biochemistry and Molecular Biology panel.

Van't Hof, T. Reviewer for Panel for Star Fellowships, EPA, Washington, D.C., March 2004

Wheatly, M. G. NSF Review Panel (Integrative Animal Biology)

Offices held in National professional organizations—faculty name, organization

Amon, J. Trustee and Advisor Beaver Creek Wetlands Association

Arlian, L. G. Indoor Allergens Committee of the American Academy of Allergy, Asthma and Immunology-member.

Arlian, L. G. Environmental and Occupational Diseases Interest Section of the American Academy of Allergy, Asthma and Immunology-member.

Burton, G. A. World Council, Society of Environmental Toxicology & Chemistry (SETAC)

Burton, G. A. Chair, Science Committee, SETAC World Council

Burton, G. A. National Association of State Universities and Land-Grant Colleges, Delegate to Section on Ecology.

Burton, G. A. Ecotoxicity Technical Advisory Panel. Non-Ferrous Metal Industry.

Burton, G. A. Metals Advisory Group. Society of Environmental Toxicology & Chemistry.

Burton, G. A. Chair, Sediment-Water Interactions Group. Non-Ferrous Metals Industry.

Burton, G. A. Council of Environmental Deans and Directors. National Council for Science and the Environment.

Burton, G. A. Steering Committee. Chemical Stability of Sediments Workshop. San Diego. April 2003.

Burton, G. A. IAPSO-IAHS Joint Commission on Groundwater-Seawater Interactions. Scientific Committee, 6th International Symposium on Sediment Quality Assessment. 2004. Antwerp, Belgium

Burton, G. A. Contaminated Sediments Committee. American Society of Civil Engineering.

Burton, G. A. Co-Chair, In Situ-Based Effects Measures: Linking Responses to Ecological Consequences in Aquatic Ecosystems. SETAC Technical Workshop. Portland, OR. November 2004.

Carmichael, W. W. Member - Resource Group - American Water Works Association - Research Foundation. Cyanobacterial Toxins

Carmichael, W. W. Member of toxin nomenclature group-IUPAC-Biotoxins Working group

Carmichael, W. W. Member, Ohio Plant Biotechnology Committee

Carmichael, W. W. Advisory group-Florida Dept of Health-Harmful algae Bloom task force-coordinated from Univ S Florida-Florida Marine research Instit-Dr Karen Steidinger

Goldstein, D. L. Joint Programming Committee Representative and Steering Committee Member, Comparative Physiology Section of the American Physiological Society.

Goldstein, D. L. Chair of Organizing Committee, Conference on Comparative Physiology 2006, American Physiological Society

Runkle, J. R. Board of Trustees for The Nature Conservancy, Ohio Chapter

Wheatly, M. G. Steering Committee of the Comparative Physiology Section of the American Physiological Society.

Wood, T. Secretary, International Bryozoology Association.

Special events, symposia or colloquia hosted

Krane, D. Organized a national “Expert Forum on The Science of DNA Profiling” that was attended by nationally recognized scientific experts and attorneys as well as 110 attendees and media representatives from around the country. Continuing legal education credit for the forum was approved by the Supreme Courts of 42 states (all those for which CLE credits are required for members of the State Bar Association).

Faculty, staff or students who were given awards locally, nationally or internationally

Burton, G. A. Phi Beta Delta International Honor Society. 2004-present

Outreach programs

Jim Amon, Guided Science Fair student Elizabeth Markus through most of winter and spring 2004 on a project that took her all the way to International competition.

Jim Amon:, Editor of Newsletter for Beaver Creek Wetland Association 4 issues (12 p each). Contributor to about 4 articles per newsletter above

Allen Burton, Centerville College and Career Night

Allen Burton, Exploring Science High School Day (WSU COSM)

Allen Burton, Finalized CD for ES Graduate Programs

Wayne Carmichael: Provided expert advice to Franklin County Coroners Office(Columbus Oh)-human mortality-puffer fish poisoning; New Scientist Magazine-algae poisonings; Chicago Dept of Public health-algal toxins city lakes

Wayne Carmichael, Advised 7th grade student science project-St Andrew School

Don Cipollini presented 1 day of lectures and laboratory exercises on forensic botany and forensic entomology for the Forensics Summer Institute

Barbara Hull served on the Board of Directors, Admissions Committee, Honor Seminars of Metropolitan Dayton

Barbara Hull was Board Member, Mentor for 2 summer high school students (Lauren Boucher and Aghanwi Ndefru), Judge for the poster presentations, and Speaker for two seminars presented to the Science Apprentice Program sponsored by the School of Medicine, Summer, 2004

James Runkle was a BioBlitz participant and leader, June, Glen Helen

D. L. Goldstein supported and participated, M. Wendeln coordinated, "Take Our Daughters to Work Day" workshop

Student clubs and activities

Biology Club: Activities include "academic" meetings (e.g., presentations from faculty and others on various topics, such as department research, bioinformatics, or forensic biotechnology), service activities (e.g. promoting recycling, maintaining trails), and "exploration" (e.g. trips to Cincinnati Zoo).

Undergraduate honors students

Justin Bohrer: mentor, Scott Baird

Tiffany Boggs: mentor, Mill Miller

Graduate students

Student's Name	Thesis or Non Thesis	Title of Thesis or Project	Where they are
Compton, Tracy	Non-thesis	"Evidence of Endocrine Disruption by Environmental Contaminants upon Reproduction, Neurodevelopment, and Behavior"	Springfield City Hospital
Ouster, Kevin	Thesis	"Development of a benthic macroinvertebrate in situ Toxicity Identification Evaluation (BITE) chamber"	In Ph.D. program at Arkansas State
Davidson, Cynthia	Thesis	"Ray pattern and P3 p cell lineage evolution in caenorhabditis briggsae"	Research at Children's Hospital Cincinnati, OH
Doming, Monica	Thesis	"Impacts of the invasive species Lonicera maackii on individual plants and plant communities"	USDA APHIS in Clearwater, FL
Frey, Jeanette	Thesis	"Culture, isolation and analysis of anatoxin-a, cylindrospermopsin and microcystin-producing cyanobacteria in the St. Johns River Water Management District, Florida"	WSU-Dr. Wayne Carmichael's Lab
Hedge, Vinayak	Thesis	"Electrical and hemodynamic responses of cardiac subjects to resistance training"	Residency in cardiology at University of Pittsburgh
Jastrzembki, Krista	Thesis	"RAPD-PCR Measurements of Genetic Diversity Among T. Rathkei in Reclaimed and Unreclaimed Abandoned Surface Mines"	Unknown
Kicko, Stephen	Thesis	"Genomic Profiles Associated with Organochlorine Contaminants in Embryonic Herring Gulls from the Great Lakes and Chickens in the Laboratory"	Living in the Washington, D.C. area; currently job searching
Lambdin, Patricia	Non-thesis	"The threat of purple loosestrife (<i>Lythrum salicaria</i>) and its propagated cultivars to wetlands"	Unknown
Kondreddi, Praveen	Thesis	"Sensitization to the Storage Mite, Tyrophagus putrescentiae, in a Selected Human Population"	Research Associate in Pathology at Johns Hopkins School of Medicine, Baltimore, MD
Maggart, Melissa	Thesis	"Blood Pressure Response during Isokinetic and Isotonic Leg Extension Exercises"	Prime Health Medical Services Centerville, Ohio
Mills, Susanne	Non-thesis	"The Impact of Livestock Excretion of the Nutrients, Nitrogen, Phosphorus, and Potassium in the Watersheds of Preble County, Ohio"	Mills Farm, Preble County, Ohio

Nade, Minal	Thesis		Columbus Children's Hospital
Nickell, Philip	Thesis	"Impact of deer browsing on sugar maple maple regeneration"	Instructor in Bio. Sci at WSU; going to Notre Dame in fall for doctorate program
O'Hara, Reginal	Non-thesis		Working at WPAFB in Health & Wellness Ctr & in doctorate program at Union Institute and University in Cincinnati, Ohio
Owen, Christopher	Thesis	"Distribution and Abundance of Freshwater Bryozoans in the Western Basin of Lake Erie: Pre-, Peak- and Post-Eutrophication"	Ph.D. program at University of Louisville, KY
Petty, Andrew M	Non-thesis	"Chronic Beryllium Disease: A Critical Review of the Literature"	NCR, Dayton
Rajkondawar, Geetanjal	non-Thesis	Role of renal aquaporins in human disorders of water homeostasis	Univ. of Rochester Hospital
Regler, Jennifer	Non-thesis		Matriculated into the Ohio College of Podiatric Medicine Springfield Schools
Riley, Sharon	Non-thesis		
Rooney, Aubrey	Non-thesis		Unknown
Ruetenik, Katie	Thesis	"The Effect of Submaximal Exercise on Heart Recovery in Patients with Coronary Revascularization"	Prime Health Medical Services Centerville, Ohio
Sipe, Michelle Lynn	Thesis	"Specificity of elicitors and induced resistance in wild mustard, Brassica Kaber"	
Speeg, Brandon	Non-thesis		"The Wilds", Pataskala, Ohio
Rutkiewicz, Jennifer	Thesis	"Effects of organochlorine exposure on the resistance of juvenile herring gulls and white leghorn chickens to gastrointestinal parasites"	Working in research at Ohio State
Woods, Jennifer	Non-thesis	"Long-term butterfly monitoring at Aullwood Audubon Center in Doton, Ohio"	seeking employment