Danuta Leszczynska, PhD

Professor

Department of Civil and Environmental Engineering

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EDUCATION

Ph.D. in Environmental Engineering, Technical University, Poland

M.S.. in Organic Chemistry, Technical University, Poland

B.S. in Chemical Engineering, Technical University, Poland

PROFESSIONAL EXPERIENCE

(A) Positions:

Professor, Department of Civil and Environmental Engineering, JacksonStateUniversity, Jackson, MS, August 2006-

Associate Professor, Department of Civil and Environmental Engineering, FAMU-FSU College of Engineering 1995-

Assistant Professor, Department of Chemistry, Jackson State University, Jackson, Mississippi 1991- 1995.

Post Doctorate Associate, Dept. of Environmental Sciences and Engineering, University of Florida 1987- 1990

(B) Pertinent Teaching, Research and Related Activities:

Teaching Areas: Design of water quality management facilities, water reuse engineering, remediation engineering, water quality, general environmental engineering, and environmental engineering chemistry

Research Areas:

(1) Water, stormwater and wastewater (water matrix) contamination, and treatment; (2) Operational problems with secondary contamination (water matrix); (3) Techniques and mechanisms for enhancement of treatment/removal of organic and metallic contamination (water and soil matrixes);(4) Emerging technologies for water/soil treatment (constructed wetlands, phytoremediation, photodegradation), (5) Applications of magnetic field for bioscience and biotechnology; (6) Quantum cluster study on degradation explosives on the model clay surface; and (7) Nanomaterial in drinking water

(D) Citation of Pertinent Publications all referred (last 3 years):

D. Leszczynska, A. Hafiz, “Toxic Elements in Soil and Groundwater: Short-Time Study on Electrokinetic Removal of Arsenic in the Presence of other Ions”, International Journal of Environmental Research and Public Health,3(2), 67-73, 2006

D. Leszczynska, A. Dzurik, H. Ahmad, “Policy, Management and in situ Treatment of Stormwater Runoff”, published in the Environmental Management: Contribution to Solution”, special Book of Papers from the International Symposium on Environmental Management, p. 137-143, 2006

P. Babiniec, M. Babincova, P. Sourivong, D.Leszczynska, “Efficient treatment of pigmented B16 melanoma using photosensitized long-circulating magnetofullerenosomes”, Journal of Magnetism and Magnetic Material, 293, 1, 394-397, 2005

M. Babincova, P.Sourivong, D.Leszczynska, P.Babinec, Photodynamic therapy of pigmented melanoma B16 using sterically stabilized fullerenosomes, Laser Physics Letters, 1, 9, 476-478, 2004.

Babincova M, Sourivong P, D. Leszczynska, Babinec P “Effects of GSM microwaves, pulsed magnetic field, and temperature on fractal dimension of brain tumors”, Chaos, Soliton &Fractals, 20 (5): 1041-1045, 2004.

M. Babincová, P. Sourivong, D.Leszczynska, P. Babinec, J. Leszczynski: Principles of Magnetodynamic Chemotherapy, Medical Hypotheses, 62, 375-377, 2004.

M. Babincova, P. Sourivong, D.Leszczynska, P.Babinec, “Fullerenosomes: Design of a novel nanomaterial for laser controlled topical drug release:, Physica Medica, XIX, 3, 213-216, 2003.

M. Babincova, P. Sourivong , D.Leszczynska, P.Babinec, “Influence of GSM Microwaves on Fractal Structure of Brain Tumors:, HarFA Harmonic and Fractal Image Analysis, 35-38, 2003.

C. Bogatu, D. Leszczynska, A. Dzurik , M. Nicolau , I. Vlaicu, G. Moşoarcă, “Studies on the use of chloramines to minimize DOCl formation in treated water”, Chemical Bulletin, Series of Chemistry and Environmental Engineering, 47(61), 1-2,.38-43, 2002.

Zilberberg, A. Pelmenschikov, C.J. McGrath, W. M. Davis, D. Leszczynska, J.Leszczynski "Reduction of Nitroaromatic Compounds on the Surface of Metallic Iron: Quantum Chemical Study", International Journal of Molecular Science,3, 801-813, 2002

Chapters in Books

Co-author of DEPA (Florida Department of Environmental Protection) manual “Best Management Practices for Environmental Stewardship of Florida Shooting Ranges”, 170 pages, published in August 2002 and 2004 www.dep.state.fl.us/waste/categories/hazardous/pages/lead.htm

Markey,M., D. Leszczynska and A. Dzurik, “Remediation of Arsenic: Cleanup Methods and Case Histories,” Chapter in A.R. Gavaskar and A.S.C. Chen (eds.), Remediation of Chlorinated and Recalcitrant Compounds, Columbus, OH: Battelle Press, May2002

(H) Patents

D. Leszczynska, M. Babincova, P. Babinec, J. Leszczynski, “Magnetoliposomes Composition for Targeted Treatment of Biological Tissue and Associated Methods” European Patent Organization Patent No. EP1255533, November 6, 2002.

Professional Service (last five years)

Panelist Transportation Research Board of the National Academies of Science, Engineering and Medicine, 2006-

Guest-Editor to theMedical Physics (American Association of Physicists in Medicine), 2003 -present

Co-editor of theInternational Journal of Molecular Sciences, 2001-present

ASCE Spill Prevention Committee, acting officer, 2000-present