

James D. McGlothlin, MPH, Ph.D., CPE, FAIHA. Faculty Scholar & Professor Emeritus  
Purdue University, January 2018  
President and Founder McGlothlin Ergonomics and VEM Systems, LLC

**James D. McGlothlin, M.P.H., Ph.D., C.P.E., FAIHA**  
**Faculty Scholar & Professor Emeritus**  
**College of Health and Human Sciences**  
**Purdue University**  
**McGlothlin Ergonomics and VEM Systems, LLC**

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**Business/  
Consulting:** McGlothlin Ergonomics and VEM Systems. Founder and President. Provide ergonomics and exposure assessment (Ergonomics, Safety, Industrial Hygiene Training Courses, Expert Witness, Engineering, Safety, and Industrial Hygiene Exposure Assessments) consulting for companies worldwide.

**Purdue University  
Titles &  
Responsibilities:**

- Faculty Scholar and Professor Emeritus
- Former Director of Service Initiative for International Study Abroad Program for Purdue University College of Health and Human Sciences.
- Former Director, Graduate Occupational and Environmental Health Program
- Former Director: Purdue's Exposure Assessment Research Laboratory (PEARL)
- Former Co-Director: Consortium for Virtual Reality Design of Healthcare Facilities
- Associate Professor of Health Sciences
- Former Chair: ABET reaccreditation for Purdue's School of Health Sciences

**Disciplines:** Ergonomics, Exposure Assessment and Risk Assessment, Engineering Controls, Occupational and Environmental Health, Industrial Hygiene, Public Health, Epidemiology, Study Abroad: Service-Based Projects

**Current  
Location:** Grand Rapids, Michigan. 49546-3661

**Education:** **Ph.D.** April 1988, University of Michigan, Horace H. Rackham School of Graduate Studies, School of Public Health, Department of Environmental and Occupational Health. Major: Industrial Health with Emphasis in Ergonomics.

**M.S.** May 1977, University of Hawaii, School of Public Health, Department of Environmental and Industrial Health. Major: Environmental and Industrial Health.

**M.P.H.** May 1977, University of Hawaii School of Public Health, Department of Epidemiology. Major: Epidemiology.

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**B.A.** August 1975, University of Hawaii, Department of Psychology. Major: Psychology, Minor: Chemistry.

**Certification:** Certified Professional Ergonomist (CPE), Granted September 30, 1993, Certification # 147.

**Interests:**

- Certified Training in Ergonomics/On-Site Certificate Series Training in Ergonomics, Safety, Industrial Hygiene.
- Prevention through Design – Design Systems to Solve Problems in the Healthcare Industry.
- Integrate ergonomic, epidemiologic and occupational hygiene principles and tools to evaluate and control physical, chemical, radiological and biological hazards in the environment.
- Develop and administer ergonomic programs to prevent musculoskeletal injuries, promote health, and improve productivity and quality in the workplace.
- Improve healthcare delivery through the integration of engineering, management and scientific principles.
- Understand tipping points in the development and implementation of national and international public health laws and policies.

**Activities:**

- Plan, design, conduct and report on engineering control technology projects to decrease injuries and promote health in the occupational environment.
- Advance Molecular Diagnostic research for emerging infectious diseases particularly in healthcare settings.
- Invent and develop state of the art exposure assessment measurement methods and data capture systems such as video exposure monitoring to evaluate and control hazards in the environment.
- Recent specific research activities include:
  - Methods development and field studies for systematic evaluation of worker exposure to musculoskeletal hazards and airborne chemical exposures as a function work practices and engineering controls;
  - Development of patient-centered design for current and future state hospital systems using virtual reality technology;
  - Developing of rapid detection systems to detect and identify airborne infectious agents, including avian flu; Quantifying finger tip radiation exposure among nuclear pharmacists; Reducing worker exposure to high potency drugs during manufacturing; Improving patient care by controlling noise in hospital settings.

**Management Activities (as a Professor at Purdue):**

- Direct MolecularHUB.org a global portal to advance molecular diagnostics for early surveillance, control and prevention of infectious diseases
- Direct Graduate Occupational and Environmental Health Program
- Direct PEARL (Purdue's Exposure Assessment Research Laboratory): Includes advancing Video Exposure Monitoring technology and tools to protect occupational and environmental health

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- Co-Director for the Consortium for Virtual Reality Design of Healthcare Facilities; manage projects and students at Purdue's Envision Center to advance healthcare facility design and functionality
- Executive Committee: Regenstrief Center for Healthcare Engineering, as their Technical Director, by helping to recruit, plan, conduct, and complete research projects.
- Chair, Senate Educational Policy Committee: develop, advise, and execute educational policies for Purdue University.
- Chair, Parking and Traffic Committee – Purdue University.

### **Selected Contributions to advance Purdue's College of Health and Human Sciences:**

Dr. McGlothlin

- Managed a \$700,000 portal titled: MolecularHUB.org through Purdue University HubZero.org to advance molecular diagnostics (Aug 2012-2015)
- Is a co-principle investigator of a multimillion-dollar grant from The Regenstrief Foundation to develop the Regenstrief Center for Healthcare Engineering (RCHE). Funding included \$2,000,000.00 per year for the first 3 years. In 2007 RCHE was successfully renewed to perpetuity with \$2,000,000.00 per year. An \$11,000,000 increase in funding from the Regenstrief Foundation was awarded in 2008. Dr. McGlothlin is a project officer for several projects, on the Executive and Operations management teams, and is the Technical Director for RCHE. RCHE's focus is to apply engineering, management and scientific principles for the improvement of healthcare at the local, state and national levels
- Created and directs research in Purdue's Exposure Assessment Research Laboratory (PEARL). Research in this laboratory ranges from detailed work methods analyses to reduce injuries and illnesses among workers in Indiana, to the etiologic causes of back injury among Purdue's faculty and staff, to the development of a rapid detection system for pandemic flu. PEARL is located in the School of Health Sciences, Civil Engineering Building, Room 1285
- Invented, developed and advanced Video Exposure Monitoring (VEM) methods. VEM is an exposure assessment and risk management system to evaluate and control adverse exposures in the environment. The primary source of funding to advance this research has been conducted in the pharmaceutical industry. This pharmaceutical industry's motivation for this research is in developing a user-friendly system that assures product containment during potent drug manufacturing and prevention of exposures to workers.
- Helped renew accreditation Board for Engineering and Technology (ABET) for 6 more years at the undergraduate and graduate levels. The ABET accreditation at the undergraduate and graduate level in Industrial Hygiene is unique among U.S. universities. As director of the occupational and environmental health program, Dr. McGlothlin will direct the next renewal of the ABET accreditation for the school.
- Partnered with faculty in the School of Aviation Technology, the Federal Aviation Administration (FAA), to conduct research on adverse health effects from aviation jet exhaust emissions
- Partnered with the School of Health and Kinesiology, and the School of Technology to obtain a grant to establish an innovative program to promote interdisciplinary research in ergonomics
- Developed applied research program with School's freshman scholars, Arnett/Clarion Occupational physicians, and local companies. This program focused on ergonomic and

- medical evaluations to reduce musculoskeletal injuries and illnesses at these companies.
- Recruited several PH.D. and Master's candidates for the IH and Interdisciplinary Ergonomics program, including those from the uniformed services to the School of Health Sciences
- Direct, recruit, teach and mentor graduate students in the Occupational and Environmental Health Sciences Program
- Assisting State Health Department in the development of a rapid detection system for the Avian Flu using VEM technology
- Member of the University and Academic Pandemic Flu response committees to develop strategies to address Avian Flu if and when it occurs in the U.S. and at Purdue
- Purdue University Senate Chair of the Educational Policy Committee
- Served as Senator and to the President's Senate Advisory Committee
- Member of Purdue's Health Advisory Committee
- Chair, Purdue's Parking and Traffic Committee
- On workgroup for Purdue's Homeland Security to advance patent pending real-time wireless GM sensor and videography system for the Department of Homeland Security
- Faculty advisor for Physical Therapy/Occupational Therapy Club
- Co-advisor for Purdue Industrial Hygiene Student Association (PIHSA)

### **Curriculum Innovations**

- HSCI 580: Occupational Ergonomics (Dr. McGlothlin developed this new course in the spring of 1999). Enrollment in this course has grown from 25 in the first year offering and for the past 2 years has between 85-100 students; it is offered in the fall
- HSCI 581: Applied Occupational Ergonomics (Dr. McGlothlin developed this new course in the fall of 2000). It has approximately 25 students and is offered in the spring
- HSCI 582: Video Exposure Monitoring Methods (Dr. McGlothlin developed this new course in the fall of 2001; it has between 12-15 students and is offered in the fall
- HSCI 201 Principles of Public Health (Dr. McGlothlin co-developed this new course in the spring of 2001. It started with approximately 60 students and is now the largest course taught in the School of Health Sciences with over 200 students taking this course in the spring
- HSCI 590b Public Health Law and Policy. (Dr. McGlothlin co-developed this course with Judge (retired) Linda Chezem and Professor Kathy Weaver. It was first offered in the fall of 2007, and has been offered in each semester since its inception. It is taught to students at Purdue, and to Indiana University Bloomington, and Indiana University/Purdue University (IUPUI). The course enrollment has ranged from 13-20 students per semester
- HSCI/SA 10601 Contemporary Issues in International Public Health. (Dr. McGlothlin developed this course in 2006 and offers it to students who want to study abroad during the summer. Australia was the country visited in the summer of 2007, and India, Cambodia and Thailand were visited in the spring and summer 2015. Most recently, a study abroad course for London, Scotland, and Ireland over spring break 2016. A service-related study abroad course was conducted in Peru, South America with 26 Purdue students over Maymester 2016
- An Ergonomics Track was developed for the Graduate Occupational and Environmental Health (OEH) Sciences Program in the School of Health Sciences. The ergonomics track innovation allows students in the OEH to focus on Ergonomics issues. In 2008 this track was integrated into the overall OEH degree

- In 2005 Dr. McGlothlin developed an Interdisciplinary Ergonomics Program for students at Purdue to pursue. It is offered in the School of Health Sciences at the Master's and Ph.D. level. The innovation of this Interdisciplinary Ergonomics program is that it capitalizes on recruitment of academically strong engineering Master's students (most from the School of Industrial Engineering) into the School of Health Sciences to learn how to apply engineering principles to solve occupational and healthcare delivery issues.

#### **Academic Administrative Work Experience:**

##### **July 2015 – September 2016:**

**Director, Service Initiative for Study Abroad Program; Under Contract with Purdue:** Developed and directed a study abroad course in England, Scotland, and Ireland in March, 2016 (31 students); and a service-based study abroad course in Peru from May-June 2016 (26 students).

##### **May 2006 to June 30<sup>th</sup>, 2015:**

**Director of Occupational and Environmental Health Sciences Graduate Program at Purdue University.** Develop strategic plan to recruit high quality Master's and Ph.D., candidates from around the world. Work with IH and Toxicology colleagues in the School of Health Sciences to teach and conduct research at graduate level.

##### **August 2012 to June 30<sup>th</sup> 2015:**

**Chair: Undergraduate and Graduate ABET Committees.** Successfully renewed ABET accreditation for the Industrial Hygiene programs at Purdue University.

##### **August 2012 to June 30<sup>th</sup> 2015:**

**Chair: 3+2 Accelerated BS/MGA program.** Program created and directed by Dr. McGlothlin for academically gifted pre-professional health science students to receive their BS and MBA in 5 years, then go to professional programs such as medical school.

##### **August 2011 to June 30<sup>th</sup> 2015:**

**Chair: College of Health and Human Sciences Study Abroad Program.** Directed selected faculty members in the college's 9 units to develop and deploy study abroad programs around the world for Purdue students.

##### **September 2004 to 2013**

**Technical Director: Regenstrief Center for Healthcare Engineering.** Provides technical and strategic direction to the Director of RCHE and the Executive Management Team to improve the quality and execution of projects that improve healthcare delivery. The Center currently has funding of approximately 24 million dollars. Additional information about RCHE can be found on the following website: <http://www.purdue.edu/dp/rche/>

##### **August 1999 to June 30<sup>th</sup> 2015**

**Director: Purdue's Exposure Assessment Research Laboratory (PEARL).** Develops and directs applied and basic research focusing on ergonomics, exposure assessment, and risk management projects.

**June 2006 to present**

**President and CEO of VEM Systems™, LLC.** The goal of this non-profit company is to advance the science and application of exposure and risk assessment by developing customized software that collects, archives, and retrieves videography data digitally linked with environmental sensor data. This system helps the safety specialist, industrial hygienist, engineer, and public health professional visualize events while quantitatively measuring hazardous chemical, physical, radiological, and physical agents. The objective to more accurately pinpoint exposure sources and develop cost-effective controls to reduce exposures and risk from developing harmful human disease and premature death. (Note: Several Purdue related projects had an ergonomics focus ranging from the airline industry, to healthcare to manufacturing. For the airline industry Dr. McGlothlin partnered with faculty and students in the College of Technology (now labeled the (Purdue Polytechnic Institute), to study baggage handling, baggage storage, and overhead baggage storage for various airlines including Jet Blue).

**January 3<sup>rd</sup>, 1999 to June 30<sup>th</sup> 2015**

**Associate Professor of Health Sciences at Purdue University.** Develop and direct an ergonomics and industrial hygiene research program. Develop and teach courses in occupational ergonomics and industrial hygiene to undergraduate and graduate students at Purdue University. Serve on student thesis and doctoral committees. Publish research findings.

**January 1997 to January 1<sup>st</sup>, 1999**

**Director Grade (CAPT: O6) Senior Researcher in Ergonomics** for the Engineering Control Technology Branch of the National Institute for Occupational Safety and Health. Plan and conducts worksite and laboratory research to assess, demonstrate, or develop engineering control techniques for hazardous materials, industries, or processes; promotes the transfer and widespread application of effective preventive engineering control measures for safeguarding worker health and safety; provides engineering expertise in formulating effective and feasible workplace standards; (provides technical consultation to other elements of NIOSH and other government agencies in the application of new and improved techniques for hazard prevention.

**August 26, 1994 to December 1996**

**Occupational/Environmental Safety & Health Specialist VI.** Direct and assist in research projects in ergonomics for the Engineering Control Technology Branch (ECTB), Division of Physical Sciences and Engineering (DPSE). Projects in the automotive, beverage delivery, and home appliance industries have benefitted from recommendations provided through research reports from ECTB researchers. The benefits include an increase in productivity and product quality, and a decrease in injuries and illnesses. Cost savings for these industries are estimated in the millions of dollars.

**March 24, 1991 to August 25, 1994**

**Occupational/Environmental Safety & Health Specialist V.** Control Section I. Conducted research projects to control nitrous oxide in dental operatories, and to control

chemical exposures during manual materials handling. The recommendations from these technical reports will reduce airborne contaminant exposures to health practitioners and industrial workers. The reduction in exposures should prevent adverse reproductive health effects and cancer in several million workers.

**February 26, 1991 to March 23, 1994**

**Occupational/Environmental Safety & Health Specialist V.** Control Section III.

Expanded scope of research projects in real-time sampling for workers in the manufacturing and service industries. New sampling methods and visualization of the effectiveness of controls resulted in significant cost savings to industry. The savings were realized from the use of custom designed ventilation controls to reduce airborne contaminants, and improved work station design to reduced muscle fatigue and accidents.

**March 21, 1988 to February 25, 1991**

**Research Industrial Hygienist.** Conducted research projects in real-time sampling for the workers in the manufacturing industries. The projects focused on developing innovative monitoring and sampling techniques for controlling airborne contaminant exposures as a function of work patterns. Sampling methods and visualization of the effectiveness of controls resulted in significant cost savings, estimated in the millions of dollars, for custom designed engineering controls to reduce toxic contaminant exposures among workers.

**November 1, 1985 to March 20, 1988**

**Industrial Hygienist.** Conducted Industrial Hygiene studies in industry to reduce and prevent respiratory, dermal, and ingestion of toxic contaminants used in manufacturing processes. Complemented recent ergonomics training from doctoral work at the University of Michigan to develop methods to combine industrial hygiene exposure monitoring with work practices. The new sampling and analysis methods resulted in linking peak exposures with specific work activities. This research led to a innovations in evaluating work place exposures, and implementing more cost effective controls.

**May 27, 1984 to October 31, 1985**

**Chief, Action Analysis Section.** Division of Safety Research. (NIOSH). Supervised 9 safety and health professionals and conducted occupational safety research. Developed a program for occupational safety and health research in ergonomics for the division. The key strategies in this program were to a 5 year program to reduce work place fatalities and morbidity. Successful impact was to save thousands of lives through the design of safe work environments.

**January 27, 1984 to May 26, 1984**

**Ergonomics Projects Coordinator.** Developed the Institute's first ergonomic program for the Division of Safety Research, NIOSH. This program focused research on reducing acute and chronic injuries in the occupational environment. It also served as a model for an institute wide ergonomics research program to reduce and prevent injuries in the work place.

**September 7, 1981 to January 26, 1984**

**Graduate Trainee.** Long-term training leading to a Ph.D. in Industrial Health, with a

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specialty in Ergonomics, at the University of Michigan. The goal of the long term training was to develop ergonomics expertise among its researchers to plan, design, conduct, and oversee government research to reduce musculoskeletal injuries and illnesses in the work place.

**January 17, 1979 to September 6, 1981**

**Industrial Hygienist.** Designed and conducted Industrial Hygiene studies to assess environmental exposure to work populations. Wrote and distributed Health Hazard Evaluation Reports to Industries with recommendations to reduce and prevent exposures to toxic chemical agents. Health Hazard Evaluation work on identifying companies for chemical dumping in Cincinnati sewers received national attention.

**May 1, 1978 to January 16, 1979**

**Criteria Manager.** Proposed and evaluated criteria for health standards in occupational environments in the United States. Helped develop outline for reducing exposure to toxic chemical agents in the tire manufacturing industry. This work was later developed into a Technical Report which was translated into several languages to reduce exposures to workers in this industry around the world.

**May 1, 1977 to June 30, 1978**

**Environmental Consultant.** Performed comprehensive Industrial Hygiene and environmental surveys for industries (airline, car rental, rock quarries, Navy), in Hawaii.

**May 1, 1976 to April 30, 1977**

**Legislative Assistant.** Hawaii State House of Representatives. Served as legislative aid to Senator Anson Chong for Hawaii's House of Representatives.



**Academic, Committee, and Technical Experience:**

**Teaching**

**Courses Directed and Taught by Dr. McGlothlin at Purdue University**

Year	Semester	Course No.	Course Title	Credit Hours	Percent Responsibility
1999	Spring	HSCI690A	Occupational Ergonomics II	3	100
1999	Spring	HSCI590B	Video Exposure Monitoring Methods	2	100
1999	Fall	HSCI590A	Occupational Ergonomics I	3	100
2000	Spring	HSCI690A	Occupational Ergonomics II	3	100
2000	Spring	HSCI590A	Video Exposure Monitoring Methods	2	100
2000	Fall	HSCI590A	Occupational Ergonomics I	3	100
2001	Spring	HSCI581*	Video Exposure Monitoring Methods	2	100
2001	Spring	HSCI680*	Advanced Occupational Ergonomics	3	100
2001	Fall	HSCIE558	Safety Engineering	3	100
2001	Fall	HSCI580	Occupational Ergonomics I	3	100
2002	Fall	HSCI101	Overview of Health Sciences	2	5
2003	Spring	HSCI581	Occupational Ergonomics II	3	100
2003	Spring	HSCI582	Video Exposure Monitoring	2	100
2003	Spring	HSCI201	Public Health	3	100
2003	Fall	HSCI580	Occupational Ergonomics I	3	100
2003	Fall	HSCI101	Overview of Health Sciences	2	5
2004	Spring	HSCI581	Occupational Ergonomics II	3	100
2004	Spring	HSCI201	Principles of Public Health	3	100
2004	Fall	HSCI582	Video Exposure Monitoring	2	100
2004	Fall	HSCI580	Occupational Ergonomics 1	3	100
2005	Spring	HSCI201	Principles of Public Health	3	100
2005	Fall	HSCI580	Occupational Ergonomics	3	100
2005	Fall	HSCI582	Video Exposure Monitoring	2	100
2005	Fall	HSCI101	Overview of Health Sciences	2	5
2005	Fall	HSCI590	Principles of Epidemiology	3	100
2006	Spring	HSCI581	Occupational Ergonomics II	3	100
2006	Spring	HSCI201	Principles of Public Health	3	100
2006	Fall	HSCI 101	Overview of Health Sciences	2	5
2006	Fall	HSCI580	Occupational Ergonomics I	3	100
2006	Fall	HSCI 446	Applied Industrial Hygiene	3	100 Teaching for N.Zimmerman while he was on sabbatical
2007	Spring	HSCI 201	Principles of Public Health	3	100
2007	Summer	SA317/590	Contemporary Issues in International Public Health (Australia)	3	100
2007	Fall	HSCI 580	Occupational Ergonomics	3	100
2007	Fall	HSCI 590b	Public Health Law and Policy	3	100

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2008	Spring	HSCI 201	Principles of Public Health	3	100
2008	Spring	HSCI 590b	Public Health Law and Policy	3	100
2008	Summer	SA317/590	Contemporary Issues in International Public Health (India, Cambodia, Thailand)	3	100
2008	Fall	HSCI 580	Occupational Ergonomics	3	100
2008	Fall	HSCI 590b	Public Health Law and Policy	3	100
2009	Spring	HSCI 201	Principles of Public Health	3	100
2009	Summer	SA317/590	Contemporary Issues in International (South Africa)	3	100
2009	Spring	HSCI 390	Principles of Epidemiology	3	100
2009	Fall	HSCI 580	Occupational Ergonomics	3	100
2009	Fall	HSCI 202	Intro to Environ/Occup/Rad Health	3	3
2010	Spring	HSCI 201	Principles of Public Health	3	100
2010	Fall	HSCI 580	Occupational Ergonomics	3	100
2010	Fall	HSCI 590	Public Health Law and Policy	3	100
2011	Spring	HSCI 201	Principles of Public Health	3	100
2012	Summer	HSCI 590	Contemporary Issues in International Public Health	3	100
2012	Fall	HSCI 580	Occupational Ergonomics	3	100
2013	Spring	HSCI 201	Principles of Public Health	3	100
2013	Summer	HSCI 590	Contemporary Issues in International Public Health	3	100
2013	Fall	HSCI 580	Occupational Ergonomics	3	100
2014	Spring	HSCI 201	Principles of Public Health	3	100
2014	Spring Break	HSCI 590	Contemporary Issues in International Public Health	3	100
2014	Fall	HSCI 580	Occupational Ergonomics	3	100
2015	Spring	HSCI 201	Principles of Public Health	3	100
2015	Spring Break	SA 10601 & 59000	Contemporary Issues in International Public Health	3	100
2016	Spring Break	SA 10601 & 59000	Contemporary Issues in International Public Health	3	100
2016	Summer Session	SA 10601 & 59000	Service Project: Orphanages in Peru - Contemporary Issues in International Public Health	3	100

### **Involvement in Graduate Research**

Major Professor and Co-Primary Advisor for Completed and soon to be completed Ph.D. and M.S. Research in Industrial Hygiene and Ergonomics, Interdisciplinary Ergonomics, and Industrial Technology disciplines.

<b>Date</b>	<b>Name</b>	<b>Degree</b>	<b>Title</b>
Aug 2000	John Vosicky	M.S.(Thesis)	The Development, Assembly, and Pilot-Testing of a Task-Based video Exposure Assessment system.

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Aug 2000	Eleni Protopapas (co-chair with Dr. Neil Zimmerman)	M.S.(Thesis)	Videography with comparative Analyses of real-time Monitoring Versus diffusive Monitoring to control Methylene Chloride in an Industrial Setting.
Dec 2000	Erica Peterson	M.S. (Thesis)	Development of an Ergonomics Training Program to Identify, Evaluate and Control Musculoskeletal Disorders among Nursing assistants in a State-Run Veterans' Home.
May 2001	Jason Roggenbauer	M.S. (Thesis)	Exposure Assessment and Control Strategies Using Real-Time Sampling Monitors and Multimedia Video Task Analysis of Pharmaceutical Operations
Dec 2003	Scott Potts	M.S. (Thesis)	Prevention of Falls from Elevations in the Construction Industry
Dec 2003	Chie Inumaru	Ph.D.	Efficacy of Natural Products as Antifungal Agents in Carpets and Investigation of Ethyl Cellulose Polymer as an Extender (co-primary adviser)
May 2004	Lisa Wagoner	M.S. (Thesis)	Evaluation of noise attenuation and verbal communication capabilities using three ear insert hearing protection systems among airport personnel.
Dec 2004	Karen Matos	M.S. (non-thesis)	Effective Safety management Programs in the Construction Industry in Puerto Rico (co-adviser)
May 2005	Julia Kalish	Ph.D. (School of Technology – Industrial Technology)	Modeling and Simulation of Pregnant Employees (co-primary adviser)
May 2005	Genevieve James – Rhodes University, South Africa	M.S. (with Honors)	The Effect of Personalized Adjustments to Computer Workstations on the Efficiency and Physical Comfort of Computer Operators (external examiner)
Dec 2005	Fan Xu	Ph.D.	Use of Video Exposure Monitoring and Real-Time Sampling to Prevent Harmful Exposures to Workers in the Pharmaceutical Production Industry.
Dec 2005	Mark Knezovich	M.S. (Thesis)	A Pilot of Ergonomic Controls for the Preparation of Footers in Post-Frame Building Construction.
May 2006	Mark Wilson (Co-Chair with Dr. Neil Zimmerman)	M.S. (Thesis)	Evaluation of Cardiovascular Effects from Exposure to Environmental Tobacco Smoke
Aug 2007	April Rademaker	M.S. (Thesis)	Validation of Video Exposure Monitoring and Infrared Imaging as an

			Exposure Assessment and prevention tool in Dental Operatories (working title)
Aug 2008	Eric P. Kukula	Ph.D. (School of Technology – Computational Science and Engineering)	Development and application of ergonomics to biometric indicators for the hand (working title).
May 2008	Priyanka Vyas	M.S. (Non- Thesis)	Use of Video Exposure Monitoring to detect and prevent radiation exposure among workers in the pharmaceutical industry. (working title)
May 2008	Lindsey Kneten	M.S. (Thesis)	Use of Video Exposure Monitoring to prevent exposure to biologic agents in the pharmaceutical industry (working title). Student co-listed with Dr. Frank Rosenthal at this time.
May 2009	Alina Goh	Ph.D. (Interdisciplinary Ergonomics – School of Health Sciences)	Use of Metrics to validate Ergonomic Interventions in Services and Facilities Personnel at a University (working title)
Aug 2009	Irene Mena	Ph.D. (Interdisciplinary Ergonomics – School of Health Sciences)	Health Lifestyles and Health Workplaces: Development and evaluation of an Ergonomics Program to reduce and prevent occupational back injuries at a major university
Aug 2007	Edem G. Tetteh	Ph.D. (School of Technology – Industrial Technology)	An Ergonomic and Electromyography Analysis of fatigue among workers in a heavy manufacturing facility
Aug 2009	Rachel Logan	M.S. (College of Engineering, School of Mechanical Engineering)	Evaluation and Control of Noise in a Healthcare facility.
Aug. 2009	Beauregard Middaugh	M.S. Industrial Hygiene, School of Health Sciences, Purdue University.	Assessment of Cut-Off Saw Control Methods or Respirable Particulate and Crystalline Silica during Highway Construction Applications.
Dec. 2010	Balmatee Bidassie	Ph.D. Industrial Engineering/Interdisciplinary Ergonomics – School of Health Sciences	Development of an Ergonomics Intervention and Healthy Lifestyle Program to Decrease Occupational Back Injuries.
Dec. 2011	Sandra Cole	Ph.D. Occupational and Environmental Health, School of Health Sciences	Ergonomic and exposure assessment evaluation of finger radiation exposure among nuclear pharmacists.
Dec. 2011	Michael White	M.S. Interdisciplinary Ergonomics	Ergonomic aspects of material handling – Amazon receiving/shipping facility.
Aug. 2010	Swaroop Hanumanthe Gowda	Construction Engineering Management, Civil Engineering, Purdue University.	Design and use of Virtual Reality Environments as an investment tool in Construction Industry (tentative title).

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Dec 2011	Wei-Chug Chen	Ph.D., Interdisciplinary Ergonomics	Ergonomics design of laboratory facilities for people (including veterans) with disabilities
Dec 2011	Jing Huang	M.S. Interdisciplinary Ergonomics	Ergonomic evaluation and design of surgical tools used during human surgery.
Aug. 2012	Beauregard Middaugh	Ph.D. Industrial Hygiene, School of Health Sciences, Purdue University.	Use of Video Exposure Monitoring to Evaluate and Control Hazardous Crystalline Silica during Construction Applications (tentative title).
Aug 2013	Stephan Ong	M.S. Interdisciplinary Ergonomics	Development of a simulation model to enable Veteran's with lower limb injuries to work in clinical laboratories
Aug 2014	Josh Horton	M.S. Industrial Hygiene	Laboratory Study of a Scavenging System to Evaluate and Control Airborne Pathogens for healthcare workers in the Post Anesthesia Care Unit (PACU) and Intensive Care Unit (ICU).
May 2015	Heath Bentley	M.S. Industrial Hygiene	Exposure of Nanoparticles in the workplace.

### **Research Grants and Awards Received**

Research is focused in four major areas:

- 1) Ergonomics (theory and applications)
- 2) Video exposure monitoring methods (exposure assessment, instrument development, and applications). The projects listed below are organized into these areas.
- 3) Regenstrief Center for Healthcare Engineering (RCHE)
- 4) Indiana State Health Department (ISHD)

#### **1). Ergonomics**

<b>Beg. Date</b>	<b>End Date</b>	<b>Sponsor</b>	<b>Topic</b>
Apr 1999	Dec 1999	Abbott Labs	An Ergonomic Evaluation of Wrenching Operations in the North Chicago Maintenance Department of Abbott Laboratories (funded)
Nov 1999	Dec 2000	Eli Lilly	An Ergonomics Program to Reduce Musculoskeletal Injuries and Illnesses among Operators at the Lilly Technology Center, North. (funded)
Nov 1999	Open	Ergo Track	Validation and testing of ErgoTrack Internet software for Office Ergonomics (funded)
Jan 2000	Open	Starlight Foundation	Ergonomic Evaluations of Koetter Woodworking, Webb Veneer, and Batesville Casket Company. Wood Manufacturing Plants (funded)
Jan 2000	Open	Multi-Sponsored	Evaluation of an Ergonomically designed Keyboard

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		(ABC Keyboards)	(funded)
Oct 1999	May 2000	Fairfield/State Farm/Alcoa	Ergonomic assessments honors scholar student of 3 manufacturing plants in Lafayette, IN. (funded)
Jun 2000	Oct 2000	Science Applications International/Glenn Research Center/ NASA	A Pilot Study of a Cost Effective Office Ergonomics Program Using Ergotrack Internet Software for the NASA Glenn Research Center (funded)
Jul 2001	Jun 2011	NIOSH	Occupational Safety and Health Training Grant (Co-PI with Rosenthal, Zimmerman) (funded)
Aug 2000	Oct 2001	USDA	Ergonomic Solutions for the Wood Industry (funded)
Jun 2002	Jun 2003	NIOSH	Gait and Balance study: Prevention of Falls from Elevations in Construction (funded)
Aug. 2003	Dec 2003	NIOSH	Can visual references enhance balance control in the occupational environment in both younger and older construction workers? (P.I. Dr. Shirley Rietdyk) (funded)
May 2002	Dec 2003	NIOSH	How Is Postural Stability Affected by Age and Manual Materials Handling in the Occupational Environment? P.I. Drs James McGlothlin and . Shirley Rietdyk) (funded)
May 2004	Sept 2004	Pfizer/	Ergonomic Program for Pfizer in Terre Haute, IN. (funded)
Oct 2001	Oct 2004	NIOSH/CDC	Prevention of Fatal Falls in Construction Industry (funded)
Apr 2005	Feb 2007	Centers for Disease Control and Prevention, NIOSH	Construction Safety Training Programs PIs. J. McGlothlin and Bryan Hubbard (Construction Engineering Management, Civil Engineering). (funded)
Sept 2005	May 2007	University of Michigan, Center for Occupational Health and Safety/NIOSH	Risk Assessment of Tripping for Construction Workers: Application of Action-Perception Theory Co-PI. J. McGlothlin, (funded)
Sept 2005	Dec 2006	NIOSH, University of Cincinnati Pilot Project Research Training Program	Do Optical Properties of Obstacles Affect the Risk of Tripping in Construction Workers? Co-PI. J. McGlothlin, Rietdyk, Rhea, (funded)
Sept 2005	Dec 2009	Human Resources, Purdue University	Development of an Ergonomics Program to Prevent Musculoskeletal Injuries and Illnesses among University Employees. PI. J McGlothlin (funded)
Aug 2009	May 2010	Centers for Disease Control and Prevention/NIOSH	Prevention through Design: Focus on the ergonomics of nanotechnology facility design and function. (funded).
Sept. 2010	Dec 2013	“Institute for Accessible Science (IAS): Advancing Inclusion of Persons with Disabilities in Biomedical	Dr. McGlothlin is a Co-PI in this 3-year award (funded) (9/23/2010 – 8/31/2013) led by Dr. Bradley Duerstock of Purdue’s Center for Paralysis Research. The group will use an innovative approach to create virtual environments at the Envision Center for the physically disabled to determine optimal form and

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		Laboratory Research” from NIH/National Institute of General Medical Sciences.	functional design.
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## 2). Video Exposure Monitoring Methods

Beg. Date	End Date	Sponsor	Topic
Nov 1999	Dec 2000	Eli Lilly	The Development, Assembly, and Pilot Testing of a video Exposure Assessment system. PI J.McGlothlin(funded)
Nov 1999	Dec 2000	Eli Lilly	Videography with comparative analyses of Real-Time Monitoring versus Passive Monitoring to Control Methylene Chloride in an Industrial Setting. PI J McGlothlin (funded)
Feb 2000	Jun 2000	NIOSH/U-Cincinnati	The Development, Assembly, and Pilot Testing of a Video Exposure Assessment System J McGlothlin (funded)
Jul 2000	Jun 2006	NIH/CPPR/ IUCRC Consortium	Exposure Assessment and Control Strategies Using Real-Time Sampling Monitors and Multimedia Video Task Analysis of Pharmaceutical Operations PI J. McGlothlin (funded)
Jan 2000	Dec 2000	EVPA	Undergraduate Instructional Equipment for Video Exposure Monitoring Course PI J. McGlothlin (funded)
Jun 2000	Dec 2000	Dean’s Computer Equipment Fund	Instruct and train Undergraduate School of Health Science Students for new Ergonomics and Video Exposure Monitoring Courses. PI J. McGlothlin (funded)
Feb 2000	Sept 2000	Argonne National Laboratory	Technical Support Services for Risk Related Materials PI J. McGlothlin (funded)
Jun 2001	Jun 2002	NIOSH/U.Cincinnati	Development of a Video Exposure Monitoring System for Detection of Radiological Agents in University Laboratories. PI J. McGlothlin (funded)
May 2001	Dec 2003	National Science Foundation	Development of Video Exposure Monitoring system for the Prevention of Particulate and Solvent Exposure in the Pharmaceutical Industry. PI J.McGlothlin (funded)
Sept. 2003	Sept 2005	Federal Aviation Administration	Center of Excellence for Aircraft Noise and Aviation Emissions Mitigation. Major award for Purdue. Focus of Dr. McGlothlin’s research is on use of video exposure monitoring and wireless real-time exposure assessment and control monitoring of noise and aircraft emissions. PIs J McGlothlin (funded)

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Sept. 2005	Sept 2006	Federal Aviation Administration	Center of Excellence for Aircraft Noise and Aviation Emissions Mitigation. Major award for Purdue. Focus of Dr. McGlothlin's research is on use of video exposure monitoring and wireless real-time exposure assessment and control monitoring of noise and aircraft emissions. PIs J McGlothlin Wayson, Rosenthal, Carlson (funded)
Sep 2004	Dec 2006	Center for Pharmaceutical and Production Research/National Science Foundation	Use of Real-time Video Exposure Monitoring as a complementary tool for Control Banding in the Pharmaceutical Industry. PI J. McGlothlin (funded)
Sept 2004	Aug 2006	Purdue Research Foundation	TRASK award for innovation in the development and commercialization of a new sensor system. PI J McGlothlin (funded)
Sept 2005	Dec 2006	Ascension – St. Vincent Hospital System	Development of Patient-Centered Design Healthcare Environments: Current and Future State. PI. J. McGlothlin. (funded)
Sept 2006	Dec 2009	Ascension- St. Vincent Hospital System	Evaluation of Noise exposure and patient feedback in a hospital setting PI. J. McGlothlin (funded).
Jan 2009	Dec. 2011	Center for Pharmaceutical Processing Research	Exposure, Risk Assessment, and Control of Antineoplastic Drugs using Video Exposure Monitoring (VEM) Methods. PI J. McGlothlin, (funded).

### 3. Regenstrief Center for Healthcare Engineering (RCHE)

Jan 2005	Present	Regenstrief Center for Healthcare Engineering	Development and development of engineering, management, and scientific methods to improve healthcare deliver on a national scale. (PI: President Martin Jischke, several CO-PI's including J. McGlothlin: (funded in perpetuity).
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Jan 2007	Aug. 2009	Regenstrief Center for Healthcare Engineering	Lifestyle and Behavioral Risk Factors in the Workplace: The Relationship between Healthy Lifestyle and Health in the Workplace (funded)
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#### 4. Indiana State Health Department (ISHD)

May 2006	May 2008	Indiana State Health Department (ISHD)	Development of a rapid detection system for the Avian Flu. PI J. McGlothlin (funded)
Oct 2006	Oct 2007	Indiana State Health Department (ISHD)	Year 1 Pandemic Exercise Preparedness Program Drills and Tabletop Exercises for Local Public Health Departments. Development and Planning for District Functional Exercises. PI's: Timothy Collins, James McGlothlin, Pam Aaltonen and Dean Larson (August, 2006-2007: (funded)
Oct 2007	Aug 2008	Indiana State Health Department (ISHD)	Year 2 Pandemic Exercise Preparedness Program Drills and Tabletop Exercises for Local Public Health Departments. Development and Planning for District Functional Exercises. PI's: Timothy Collins, James McGlothlin, Pam Aaltonen and Dean Larson (August, 2007-2008: (funded)

#### 5. Centers for Disease Control and Prevention (CDC)

Feb. 2008	Dec 2010	CDC	Linked Human-Animal Systemic Health Surveillance, Management, and Response. PI Dave Ebert, Co-PI's Sandy Amass, Marianne Ash, Alok Chaturvedi, William Cleveland, Edward Delp, Ahmed Elmagarmid, Larry Glickman, James McGlothlin, Mourad Ouzzani.
Aug. 2009	Dec. 2009	CDC/NIOSH Through University of Michigan	Real-Time Video Monitoring of Ergonomics and Radiation Exposure in a Nuclear Pharmacy. PI J. McGlothlin, (funded).
Sept. 2009	May 2010	CDC	Develop of Prevention through Design demonstrations applied to Nanotechnology Research and Development at Academic Institutions (funded)

#### 6. National Institutes for Health

Oct. 2012	Jan. 2013	NIEHS	R15: Mixed Metals Research and Neurologic function testing. (R-15 – Research Grant)
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**7. Becton Dickenson (BD)**

Aug. 2012	Aug. 2014	BD	Contract to advance Molecular Diagnostics using the MolecularHUB.org portal and Purdue's HubZero server system for research scientists all over the world (funded).
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**8. Teleflex**

Aug. 2013	July 2015	Teleflex	Contract to advance exposure assessment for control of waste anesthetic gases and pathogens in the Post-Anesthetic Care Unit (PACU) (funded).
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**9. Consultant McGlothlin Ergonomics, LLC**

Jul 1 <sup>st</sup> , 2016	Current	Grand Valley State University; OSHA, NASA,	Consulting contracts to advance ergonomics research, service, and the law.
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Total grants and awards to the School of Health Sciences and to Purdue University with Dr. McGlothlin's grantsmanship and assistance from others since arriving at Purdue University (January 1999 to the present) is significant.

Over 85% of the students have been supported with external or intramural funding where Dr. McGlothlin has been the major advisor. Since arriving at Purdue in 1999, Dr. McGlothlin has been supported at 100% by external and/or intramural funds.

Major awards include:

- The establishment of the Regenstrief Center for Healthcare Engineering (RCHE), where Dr. McGlothlin was a co-author of the grant that has received more than 17 million dollars to date and is scheduled for 2 million dollars in January of 2007. President Martin Jischke is the PI for this grant.
- Federal Aviation Administration grant for developing a sensing system for detecting airborne toxins from jet airplane exhaust, and a toxicology risk assessment from Hazardous Airborne Particulates. At nearly 200,000 dollars over 3 years.
- Ergonomics Program Development supported by the Human Resources Department at Purdue at 365,000 dollars over 3 years. These funds support a Ph.D. student and partial annual and summary salary for Dr. McGlothlin.
- National Science Foundation, the Center for Pharmaceutical Processing Research, and Indiana State Health Department funding of approximately 512,000 dollars (includes TRASK funding to develop VEM technology), to develop real-time video exposure monitoring systems to improve exposure assessment methods in the occupational and public health environment.

### **Academic and Technical Committee Activities**

Director, Service Initiative for Study Abroad Program, Purdue University, College of Health and Human Sciences. July 1<sup>st</sup> 2015 – September 2016.

Senate Advisory Council Member. Advises Purdue's President on University Policies and Procedures. Aug 2008-2015.

Special Emphasis Panel Member, Centers for Disease Control and Prevention/National Institute for Occupational Safety and Health, Evaluation of United States State Surveillance Programs. Nov 2009 – 2015.

Chair: Accreditation Board for Engineering and Technology (ABET), Applied Science Accreditation Commission for the School of Health Sciences Undergraduate and Graduate Programs for 2010-2017. December 2009 – 2015.

Technical Director Regenstrief Center for Healthcare Engineering – January 2004 – May 2011.

Provost's Academic Emergency Preparedness Committee – Jan 2008 – 2015.

University Pandemic Preparedness Committee for the Avian Flu – 2005 – 2015.

Academic and Research Continuity Committee for the Avian Flu – 2005 – 2015.

Purdue University Wellness Committee – 2005 – 2015.

Graduate Curriculum Committee: School of Health Sciences – August 2005 – 2015.

Chair: Education Policy Committee, Purdue University. October 2005-Aug 2008.

Senator: Purdue University. August 2005 – 2012.

Multiple Site Reviewer: Educational Resource Centers (ERCs) for the Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health (CDC/NIOSH) – September 2005 – present.

Grant Reviewer: Several, most recent: Centers for Excellence to Promote a healthier Workforce for the Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health (CDC/NIOSH) – November 2005 – present.

Editorial Board of the American Industrial Hygiene Association -2000 - present

Editorial Board of the Occupational Hazards Magazine – 2003 - present

American Industrial Hygiene Conference and Exposition (AIHCE) Student Abstracts Reviewer: Annual review with Kent Oestenstad as chair from the University of Alabama, of more than 50 student abstracts for poster presentation at the AIHCE. February 2001 –

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present.

Chair: Student Poster Abstracts AIHA – 2014-2015

Reviewer: Student Poster Abstracts AIHA 2000 - 2015

Ergonomics Committee, American Industrial Hygiene Association, May 1998-present.

Chairman, Ergonomics Committee. American Industrial Hygiene Association, May, 1995-1996.

Course Director/Instructor, Ergonomic Control Programs to Reduce Injuries in the Workplace, Northwestern University. Chicago, Illinois, October, 1990 - 1997.

Course Director/Instructor, Ergonomic Control Programs to Reduce Back Injuries in Industry. University of Cincinnati, Ohio. October 1989 - 2015.

Course Instructor, Upper Extremity Cumulative Trauma Disorders, Division of Training and Manpower Development, National Institute for Occupational Safety and Health. Cincinnati, Ohio, 1992 - 2015.

Program Committee, International Ergonomics Association World Conference, 3rd Latin American Congress, 7th Brazilian Ergonomics Congress, Rio de Janeiro, Brazil. December 1994 - November 1995.

Course Director/Instructor, The Use of Real Time Instruments to Evaluate Ergonomic and Industrial Hygiene Problems. University of Cincinnati, Institute of Environmental Health, Cincinnati, Ohio. 1988 - 1990.

Chairperson, Ergonomics Committee, All-Ohio Safety and Health Congress Exhibit. 1989-1990.

Technical Program Chairperson, International Industrial Ergonomics and Safety Conference, Cincinnati, Ohio. 1988-1989.

Chairperson, Ergonomics Committee, American Industrial Hygiene Association, 1987-1988.

Vice-Chairperson, Ergonomics Committee, All-Ohio Safety and Health Congress and Exhibit, 1987-1988.

Member, International Program Advisory Committee, International Industrial Ergonomics and Safety Conference, 1987 - 1989.

Laboratory Director/Instructor: Use and Application of Industrial Hygiene Sampling Instruments, University of Hawaii. January 1977 - May 1977.

Graduate Student Researcher. Research on Environmental factors influencing the incidence of prostate cancer among Americans of Japanese ancestry, at Kuakini Hospital, Honolulu,

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Hawaii. September 1976 - December 1977.

Public Health Representative for Graduate Student Organization, University of Hawaii,  
1975-1977.

Chairperson, Student Health Committee, University of Hawaii. Worked as team member to  
establish University-wide health care system in conjunction with student health insurance  
(Blue Cross/Blue shield). 1974.

### **Academic Appointments:**

Courtesy Appointment: School of Technology, Department of Industrial Technology, Purdue  
University, September 2004 - 2015.

Adjunct Professor of Ergonomics and Industrial Hygiene, University of Iowa, September  
2005 – 2015.

Adjunct Professor of Industrial Engineering, Ohio State University, Columbus, Ohio. 1989 –  
2003.

Adjunct Associate Professor of Industrial Engineering, University of Cincinnati, School of  
Engineering, Cincinnati, Ohio. 1987 - 2002.

Adjunct Assistant Professor of Environmental and Industrial Health, Institute of  
Environmental Health, University of Cincinnati, Cincinnati, Ohio. June 1987 - 2001.

Adjunct Assistant Professor of Industrial Engineering, West Virginia University, School of  
Engineering, Morgantown, West Virginia, September 1984 - December 1987.

### **Current Memberships:**

Commissioned Officers Association, United States Public Health Service.

American Industrial Hygiene Association. (AIHA)

International Occupational Hygiene Association (IOHA)

Human Factors and Ergonomics Society. (HFES)

International Ergonomics Association (IEA)

Indiana Chapter of the Public Health Association

American Society of Safety Engineers (ASSE)

Western Michigan Industrial Hygiene Association

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Michigan Industrial Hygiene Society

## **Publications:**

### **Books:**

McGlothlin, J.D., (iBook to be published May - 2018) Video Exposure Monitoring: Exposure Assessment Tools and Techniques. To be published under Apple Academic Press.

Bhattacharya, A., & McGlothlin J. D. (Eds.). (Feb. 2012). *Occupational ergonomics: From theory to application*. 2<sup>nd</sup> Edition. New York: John Wiley Publishers.

Bhattacharya, A., & McGlothlin J. D. (Eds.). (1996). *Occupational ergonomics: From theory to application*. New York: Marcel Dekker.

Kroemer, K. H. E., McGlothlin, J. D., & Bobick, T. G. (Eds.). (1989). *Manual material handling: Understanding and preventing back trauma*. Cincinnati, OH: American Industrial Hygiene Association.

### **Book Chapters:**

Dunston, P.\*, Arns, L.\*, **McGlothlin, J.**, Lasker, G., and Kushner, (2011) A. An Immersive Virtual Reality Mock-Up for Design Review of Hospital Patient Rooms. Chapter: Collaborative Design in Virtual Environments. Volume 48 of the series Intelligent Systems, Control and Automation: Science and Engineering pp 167-176

McGlothlin, J. (2010). Video exposure monitoring. **In** V. Rose (Ed.), *Patty's Industrial hygiene and toxicology* (in printing Spring of 2010). *Vol 2, Cp. 15, pgs587-620*. 6<sup>th</sup> ed. New York: Wiley.

McGlothlin, J. (Feb. 2011). Chapter 28: Ergonomics. **In** S. R. DiNardi (Ed.), *The Occupational environment: Its evaluation, control, and management* (pp. 703-746). 3<sup>rd</sup> ed. Fairfax, VA: American Industrial Hygiene Association.

McGlothlin, J. (2003). Chapter 28: Ergonomics. **In** S. R. DiNardi (Ed.), *The Occupational environment: Its evaluation, control, and management* (pp. 703-746). 2<sup>nd</sup> ed. Fairfax, VA: American Industrial Hygiene Association.

Mangharam, J., & McGlothlin, J. D. (1998). Chapter 2 - Ergonomics and dentistry: A literature review. **In** D. Murphy (Ed.), *Ergonomics and the dental care worker* (pp. 25-81). Washington, DC: American Public Health Association.

McGlothlin, J. D., Gressel, M. G., Heitbrink, W. A., & Jensen, P. A. (1996). Real-time exposure assessment and job analysis techniques to solve hazardous workplace exposures. **In** A. Bhattacharya & J. D. McGlothlin (Eds.), *Occupational ergonomics:*

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*From theory to application* (pp. 699-718). New York, NY: Marcel Dekker.

Marras, W. E., McGlothlin, J. D., McIntyre, D. R., Nordin, M., & Kroemer, K. H. E. (1994). Dynamic measures of low back performance. *In American Industrial Hygiene Association guidebook* Fairfax, VA: AIHA.

Jensen, P. A., Fischbach, T. J., O'Brien, D. M., Todd, W.F., & McGlothlin, J. D. (1991). Application of a ventilation model to real-time nitrous oxide exposure data at dental operatories. *In R. T. Hughes, H. D. Goodfellow, & G. S. Rajhans. (Eds.), Ventilation '91: 3rd International symposium on ventilation for contaminant control* Cincinnati, OH: American Conference of Governmental Industrial Hygienists.

Pizatella, T. J., McGlothlin, J. D., & Putz-Anderson, V. (1989). An overview of NIOSH research activities to reduce low back injuries. *In K. H. E. Kroemer, J. D. McGlothlin, & T. G. Bobick, (Eds.). Manual material handling: Understanding and preventing back trauma* (pp. 103-108). Fairfax, VA: American Industrial Hygiene Association.

Tanaka, S., & McGlothlin, J. D. (1989). A Conceptual model to assess musculoskeletal stress of manual work for establishment of quantitative guidelines to prevent hand and wrist cumulative trauma disorders (CTDs). *In A. Mital (Ed.), Advances in Industrial Ergonomics and Safety I* (pp. 419-426). New York: Taylor and Francis.

McGlothlin, J. D., Jensen, P. A., Gressel, M. G., & Heitbrink, W. A. (1988). Ergonomic applications and control of chemical aerosols. *In F. Aghazadeh (Ed.) Trends in ergonomics/human factors V: proceedings of the Annual International Industrial Ergonomics and Safety Conference* (pp.333-343). Amsterdam: North-Holland.

McGlothlin, J. D., Hart, J. W., & Newell, S. (1986). Safety by design: Ergonomics, machine safety, personal protective equipment, and robots (Chapter 18). *In The BBP safety management handbook* (pp.18.1-18.16). Waterford, CT: Bureau of Business Practice.

McGlothlin, J. D. (1984). Field design and solutions to office worker illness: An industrial hygiene perspective. *In B. G. F. Cohen (Ed.), Human aspects in office automation* (pp. 23-31). (Elsevier series in office automation, 1). New York: Elsevier.

McGlothlin, J. D., Wilcox, T. C., & Fajen, J. M. (1981). A health hazard evaluation of nitrosamines in a tire manufacturing plant. *In G. Choudhary (Ed.), Chemical hazards in the workplace: Measurement and control* (pp. 283-299). (ACS symposium series, 149) Washington, DC: American Chemical Society.

#### **Peer-Reviewed Technical Articles for Journals & Proceedings:**

Leah B. Davis, DMD, Mark A. Saxon, DDS, PhD, James E. Jones, DMD, MSD, EdD, PhD, James D. McGlothlin, MPH, PhD, CPE, Juan F. Yepes, DDS, MD, MPH, MS, DrPH, and Brian J. Sanders, DDS, MS, The Effects of Different Levels of Ambient

Oxygen in an Oxygen-Enriched Surgical Environment and Production of Surgical Fires Anesthesia Progress (Accepted).

Jeroen Douwes, Kerry Cheung, Bradley Prezant, Mark Sharp, Marine Corbin, Dave McLean, Andrea 't Mannetje, Vivi Schlunssen, Torben Sigsgaard, Hans Kromhout, Anthony D. LaMontagne, Neil Pearce, James D McGlothlin Wood dust in joineries and furniture manufacturing: an exposure determinant and intervention study. Annals of Occupational Hygiene. (Accepted).

Samuel Keer<sup>1</sup>, Bill Glass<sup>1</sup>, Bradley Prezant<sup>1</sup>, David McLean<sup>1</sup>, Neil Pearce, Elizabeth Harding, Diana Echeverria, **James D. McGlothlin**, Duncan R. Babbage, Solvent neurotoxicity in vehicle collision repair workers in New Zealand. Neurotoxicology 57 (2016) 223-229.

Sharma, A., Clark E., **McGlothlin, J.D.**, Mittal, S.K.; (2015). Efficiency of Airborne Sample Analysis Platform (ASAP) bioaerosol sampler for pathogen detection. Frontiers in Microbiology, May 2015, Vol 6, Article 512.

VanCleave, A.M., Jones, J.E., **McGlothlin, J.D.** (2014) The Effect of Intraoral Suction on Oxygen-Enriched Surgical Environments: A Mechanism for Reducing the Risk of Surgical Fires. Anesthesia Progress 12/2014 61 (4) 155-161.

**McGlothlin, J.D.**, Zavitz, B.R., Sullivan B.; Prevention through design ergonomics program at Bath Iron Works. JOEH 11/2014 (11) Pgs. 189-199.

VanCleave, A.M., Jones, J.E., **McGlothlin, J.D.**, Saxen, M.A., Sanders, B.J., Walter, L.A.; Anesthesia Progress D1/2014: 61(1) 21-5.

**McGlothlin, J.D.**, Moenning, J., and Cole, S.S., (2014) Evaluation and Control of Waste Anesthetic Gases in the Postanesthesia Care Unit. Journal of PeriAnesthesia Nursing. Volume 29, Issue 4 , Pages 298-312

Middaugh, B., Hubbard, B.J., Zimmerman, N., & **McGlothlin, J.D.** (2012) Assessment of Cut-Off Saw Control Methods for Respirable Dust and Crystalline Silica during Highway Construction Applications” Journal of Occupational and Environmental Hygiene (JOEH).

Dunston, Phillip S.\*, Arns, Laura L.\*, and **McGlothlin, James D.**; Virtual reality mock-ups for healthcare facility design and a model for technology hub collaboration. Journal of Building Performance Simulation Issue 3: The Role of Building Performance Simulation in the Optimization of Healthcare Building Design. Volume 3, 2010.

**McGlothlin, J.D.**, Hubbard, B.J., Aghazadeh, F., & Hubbard, S.M. (2009). Case Study: Safety Training Issues for Hispanic Construction Workers. Journal of Occupational and Environmental Hygiene, Vol. 6 Issue 9 pp. D1-D6.

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Rademaker, A, **McGlothlin, J**, Moenning J, Bagnoli M, Carlson, G, Griffin C; (2009, February issue of the Journal of the American Dental Association (JADA)) Evaluation of two nitrous oxide scavenging systems using infrared thermography and real-time air analysis to visualize and control fugitive emissions. Journal of the American Dental Association.

Tetteh, EG., Latif N, **McGlothlin JD.**, Peters J.; (2009) Impacts of Frequency and Posture on body Mass Index in Manual Handling Tasks. Human Factors and Ergonomics in Manufacturing, Vol. 19 (4) 329-343).

McGlothlin, J.D., Video Exposure Monitoring: The Wow Factor., 2009, Oct.) Synergist, (Insight Column) American Industrial Hygiene Association, page 35-37.

McGlothlin, J.D., Exposure Assessment: From Wow? To What's Next, 2010, Jan.) Synergist, (Insight Column) American Industrial Hygiene Association, page 29-31.

Gunderson,P, Correa, M, Davis, A, Dosman, J, Groves, W; McAllister, R, McGlothlin,J, Pollack,S, Stallones, L, Villarejo, D, Von Essen, S, Zuiches, J (Jan 2008, ISBN-10: 0-309-11579-5 ) Agriculture, Forestry, and Fishing Research at NIOSH, National Academies Press, National Academy of Science, Washington, D.C.

Knezovich, M., **McGlothlin, J. D.**, (2007- February). The Development and field testing of an ergonomic intervention for the preparation of footers in post-frame building construction. *Journal of Occupational & Environmental Hygiene 4:D10-D14.*

Wagoner, L., **McGlothlin, J. D.** Chung K, Strickland E., Zimmerman N., Carlson G. (2007 - February). Evaluation of noise attenuation and verbal communication capabilities using three ear insert hearing protection systems among airport maintenance personnel. *Journal of Occupational & Environmental Hygiene. 4:114-122.*

Dunston, P.S., Arns, L.L., and McGlothlin, J.D. (2007). "Immersive Virtual Reality Mock-up for Design Review of Hospital Patient Rooms." 7th International Conference on Construction Applications of Virtual Reality (CONVR 2007), John I. Messner and Nevena Jiki(eds.), Penn State University, October 22-23, 1-8.

Bryan Hubbard, Jim McGlothlin, Irene Mena, Adythia Soendjojo: Construction Safety Training Issues for New Construction Employees and Hispanic Construction Workers. CDC/NIOSH Technical Report. Aug. 2007.

Witz, S., Pekny, J., Schwarz, L., McGlothlin, J. D. (2007). The Regenstrief Center for Healthcare Engineering: Designing, implementing, and sustaining interdisciplinary solutions to transform healthcare-delivery systems. International Journal of Healthcare Technology and Management.

National Research Council and Institute of Medicine. McGlothlin et., al., Co-author. Agriculture, Forestry, and Fishing Research at NIOSH. Committee to Review the NIOSH Agriculture, Forestry, and Fishing Research Program. Rpt No. 3, Reviews of Research Programs of the National Institute for Occupational Safety and Health. Washington, D.C.: The National Academies Press. (Dec 2007).

Wang, W. H., **McGlothlin, J. D.**, Smith, D. J., & Matthews, K. L. (2006). Evaluation of a radiation survey training video developed from a real-time video radiation detection

system. *Health Physics* 90(2 Suppl): S33-9.

Rietdyk, S., **McGlothlin, J. D.**, & Knezovich, M. J. (2005). Work experience mitigated age-related differences in balance and mobility during surface accommodation. *Clinical Biomechanics*. 20(10): 1085-1093.

Rietdyk, S., **McGlothlin, J. D.**, Williams, J. L., & Baria, A.T. (2005). Proactive stability control while carrying loads and negotiating an elevated surface. *Experimental Brain Research* **165(1): 44-53**.

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### **Invited Talks and Presentations:**

Dr. McGlothlin has given more than 600 international, national, regional, and local presentations/talks in his professional career. These talks range from invited key note presentations at international conferences to local talks ranging from industry to student associations. A complete list is available on request.

#### 2018 Talks and Professional Presentations:

Ethics: Will you do the right thing when no one is looking? ASSE, March

Ergonomics in Healthcare. Michigan Safety Conference, April

#### 2017 Talks and Professional Presentations:

Wellness Programs, Safety and Ergonomics, Michigan Safety Conference, April

Ergonomics in the Laboratory, NASA, KSC, June

James D. McGlothlin, MPH, Ph.D., CPE, FAIHA. Faculty Scholar & Professor Emeritus  
Purdue University, January 2018  
President and Founder McGlothlin Ergonomics and VEM Systems, LLC

Wellness Programs and Ergonomics, NASA, KSC, June 2017

2016 Talks and Professional Development Courses include:

Professional Development Courses on Ergonomics and Video Exposure Monitoring for the American Society of Safety Engineers at South Missouri State University, April 16-18<sup>th</sup>, 2016.

American Industrial Hygiene Conference and Exposition, Baltimore, Maryland, Platform presentation on the Laboratory Ergonomics (presented by co-authors as proxy for Dr.McGlothlin who was on a study abroad mission to Peru). May, 21-26<sup>th</sup>, 2016.

Attendance and Presentation of Invited Talks on: Occupational Ergonomics and Wellness Programs for NASA Engineers, and Video Exposure Monitoring. Presented at Kennedy Space Center, Cape Canaveral, Florida. June 13-17<sup>th</sup>, 2016.

Indiana Innovations Showcase: Talk on Video Exposure Monitoring and demonstration of technology. Indianapolis. July 13-14, 2016.

Michigan Industrial Hygiene Society Troy, Michigan. Featured Speaker: Innovations in Exposure Assessment: A new exposure Assessment Tool – Video Exposure Monitoring. October 5<sup>th</sup>, 2016.

GVSU: Global Health Showcase. Study Abroad Service Projects – How to develop and sustain a successful study abroad service project (Purdue University Model). October 14<sup>th</sup>, 2016.

ASSE: Presentation on the Intersection of Ergonomics and Safety. GVSU. October, 26<sup>th</sup>, 2016. Grand Rapids, Michigan.

**ENGAGEMENT**

**Service in the State of Indiana:**

Purdue's Technical Assistance Projects conducted by James McGlothlin, from the School of Health Sciences for Engagement and Service Activities for companies in the State of Indiana.					
Eaton	South Bend	Custom forgings: gears & shafts for truck, industrial & other vehicle components.	90	Ergonomic analyses and recommendations for hourly employees.	8/10/2001

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FBI Buildings, Inc.	Remington	Commercial construction company.	300	Evaluation of ergonomic issues in both office and factory operations.	7/23/2002
Delco Remy International	Anderson	Starting motors, generators, high energy ignition systems, horns, switches, controls & batteries, permanent magnets.	200	Address arm and shoulder ergonomic issues, and methods of monitoring ergonomic problems.	9/17/2002
Wabash MPI	Wabash	Manufactures hydraulic, laboratory, laminating & molding presses	90	Review of potential ergonomic issues.	11/12/2002
Dexter Axle	North Manchester	RV axle components, electric brakes, hubs and drums.	400	Improvement of worker ergonomics.	3/19/2003
Bottcher America Corp.	Tipton	Re-cover printing press rollers.	50	Evaluation of worker safety issues.	7/31/2003
ITW Ramset/Red Head	Michigan City	Manufactures concrete anchoring systems.	75	Reduction of repetitive stress injuries.	6/20/2003
FBI Buildings, Inc.	Remington	Commercial construction company.	300	Improvement of worksite ergonomics.	9/9/2004
Cook Biotech	West Lafayette	Commercial Economic, Sociological & Educational Research.	60	Development of a comprehensive production safety plan.	4/27/2005
Ryder Integrated Logistics	Plainfield	Logistics and transportation.	470	Ergonomics review.	5/10/2005
Dynamic Corporation	Montmorenci	Electrical resistors	30	Noise level reduction.	11/28/2005
MCC Inc.	Indianapolis	Consultant	1	Interpretation of OSHA regulations regarding power cranes.	1/10/2006
Kirby Risk Precision Machining	Lafayette	Machine shop: CNC, general & specialty machining, blanchard & surface grinding, flame cutting, drilling, lathe & mill work.	65	Analysis of a potentially dangerous substance in a manufacturing plant.	2011
Laibe Corporation	Indianapolis	Manufactures water well drilling rigs & supplies.	110	Provide method for measuring the force required to depress a clutch on a truck	2013

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**Federal Government Service:**

Special Emphasis Panel Reviewer (SEP) for State Surveillance Programs in the U.S. National Institute for Occupational Safety and Health (CDC/NIOSH) – September 2009 – present.

Site Reviewer: Educational Resource Centers (ERCs) for the Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health (CDC/NIOSH) – September 2005 – present

Grant Reviewer: Several, most recent: Centers for Excellence to Promote a healthier Workforce for the Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health (CDC/NIOSH) – November 2005 – present.

Ex-officio. Surgeon General's Professional Advisory Committee, Health Services Officer subcommittee for the development of a commemorative stamp series for the 1998 PHS Bicentennial.

Chairperson, Surgeon General's Professional Advisory Committee, Health Services Officer Category, 1992 - 1993.

Vice Chairperson, Surgeon General's Professional Advisory Committee, Health Services Officer Category, 1991 - 1992.

Environmental Committee Chairperson, Surgeon General's Professional Advisory Committee (PAC) of the United States Public Health Service, Member, Health Services Officer October, 1988 -1991.

President, National Commissioned Officers Association, 1989-1990.

Vice-President, National Commissioned Officers Association, 1988-1989.

Chairperson, Field Concerns Committee, Commissioned Officers Association, 1989-1992.

Chairperson, Ergonomics Committee, All-Ohio Safety and Health Congress and Exhibit, 1990.

Vice-Chairperson, Ergonomics Committee, All-Ohio Safety and Health Congress and Exhibit, 1989.

Program Chairperson, International Program Advisory Committee, International Industrial Ergonomics and Safety Conference, 1989.

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Member, International Program Advisory Committee, International Industrial Ergonomics and Safety Conference, 1987-present.

Recorder, Commissioned Officers Association, 1987-1988.

President, Cincinnati Chapter Commissioned Officers Association, 1986-1987.

Chairperson, Vice Chairperson, and Program Chairperson for Ergonomics Committee, American Industrial Hygiene Association. Offices in succession 1986-1988.

Committee member, Resolution and Constitution Committee. Commissioned Officers Association, U.S. Public Health Service. September 1989.

### **Inventions:**

Three Patents, one patent pending:

- Patent: 6,094,780 Ergonomic Handle for Terminal Insertion Tool. James D. McGlothlin, Ova Johnson, Cherie Estill.
- Patent: 7,126,121. Real-Time Video Radiation Exposure Monitoring System. James D. McGlothlin, Wei-Hsung Wang, Ryan M. Traylor.
- Patent : 7,205,891 Real-Time Wireless Video Exposure Monitoring System. James D. McGlothlin, Ryan M. Traylor, John Leimgruber.:
- Patent Pending: C-03106: Software for the Real-Time Wireless Video Exposure Monitoring system. James D. McGlothlin, Ryan M. Traylor, John Leimgruber.

### **Honors/Awards:**

**Teacher of the year 2015:** Landolt Teaching Award, Purdue University

**AIHA Servicer Award June 2015:** In recognition of service to the Student Abstract Review Process and enabling the next generation of Industrial Hygienists to showcase student research at the annual AIHce in Salt Lake City, Utah.

**AIHA Volunteer Group Service Award June 2015.** In recognition for dedication to the Ergonomics Committee and the NIOSH Recommended Exposure Limit Apple App. Presented at the AIHce June 2015, Salt Lake City, Utah.

**AIHA Volunteer Group Service Award.** Ergonomics Committee – top 10. 2010-2015.

**American Industrial Hygiene Association Fellow.** Awarded March 2006.

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**Regenstrief Scholar (to-date: 1 of only 5 awarded) at Purdue University.**

Awarded to faculty who have distinguished themselves in healthcare delivery research.

Awarded January 2006.

**Faculty Scholar, Purdue University.** In recognition of outstanding academic distinction, Awarded Spring 2004. This award will continue for five years.

**Faculty Focus Award.** In recognition of outstanding contributions to the further of Purdue, 2004 University's commitment to disability accessibility and diversity

**Quality and Safety Achievement Recognition (QASAR) Award,** NASA, Cleveland, Ohio, 1999

**Stanley J. Kessel Award.** CAPT James McGlothlin was awarded the 1998 Stanley J. Kissel Award for Outstanding Health Services Professional of the Year at the Commissioned Officers Association (COA) meeting in Alexandria, VA. The recipient must have had made a significant impact on the nation's health, exhibited leadership in the achievements being cited, and must serve as a role model for others. CAPT McGlothlin was selected for this award based on his outstanding leadership in applying occupational safety and health research methods in designing, developing, and disseminating information for the American worker for over 20 years.

**Outstanding Service Medal.** For 20 years of contributions to the U.S. Public Health Service to preserve and protect employee safety and health for the Nation. Awarded on December 9, 1997.

**Alice Hamilton Award for Excellence in Science (Honorable Mention).** Engineering and Physical Sciences Category, for published report: Ergonomic Interventions for the Soft Drink Industry, DHHS (NIOSH) Publication No 96-109. Citation as follows: *This report describes an ergonomic evaluation of the drivers who deliver soft drinks, and has led to the implementation of many control measures that reduce injuries. These new controls can benefit more than 100,000 workers who are employed everywhere. The research is exemplary in following the problem from the evaluation of the injuries through the design of controls and on the effectiveness of the interventions* Presented October 8, 1997.

**Exemplary Service Award.** As a commendation for significant contributions to the mission of the Chief Dental Officer, presented by ADM Robert J. Collins, Chief Dental Officer, May 31, 1995.

**Certificate of Excellence.** For significant contributions made to the American's with Disabilities Act and Ergonomics Train-the-Trainers Workshop. Presented by Gilbert F. Casellas, Chairman, May 18, 1995.

**Surgeon General's Exemplary Service Medal.** For Exemplary Service to the Office of the Surgeon General, presented by the Office of the Surgeon General, October 15, 1993, Cincinnati, Ohio.

**Surgeon General's Exemplary Service Medal.** For Exemplary Service to the Office of



the Surgeon General, presented by the Surgeon General, awarded November 5, 1992, Rockville, Maryland.

**Commendation Medal.** From the Surgeon General for Exemplary Performance of Duty as Editor and Publisher of the *Health Services Reporter*, presented at the Office of the Surgeon General, April 24, 1990.

**Unit Commendation.** For Exemplary Performance of duty for service in NIOSH field studies, presented February 14, 1995.

**Unit Commendation.** For Exemplary Performance in Organizing and Directing Transportation through the Military Airlift Command for 75 officers of the U.S. Public Health Service to Scottsdale, Arizona, in June, 1993.

**Unit Commendation.** For Exemplary Performance as Director of Protocol, and Director of Transportation, during the 27th Annual US Public Health Service Professional Association Meeting, April 25 - 28, 1992

**Unit Commendation.** For Exemplary Performance of Duty in the development and teaching of a Professional Development Course in Ergonomics, for the Division of Training and Manpower Development, National Institute for Occupational Safety and Health, January 30, 1992.

**Unit Commendation.** For Exemplary Performance of Duty in assisting the Occupational Safety and Health Administration to develop guidelines for reducing injuries and illnesses in the meatpacking industry, January, 31, 1992.

Recognition Award for "Significant Contributions made in Organizing and Promoting the 1989 International Industrial Ergonomics and Safety Conference." Cincinnati, Ohio, June 5-9, 1989.

Nominated for American Industrial Hygiene Best Poster Session Award. Jensen, P.A., Heitbrink, W.A., McGlothlin, J.D., Problems in Using a Miran 1A for Real Time and Personal Sampling. American Industrial Hygiene Association, St. Louis, Missouri, 1989.

Long-term training assignment for doctoral work in ergonomics at the University of Michigan (September 1981 - March, 1984).

Honorable mention for the National Institute for Occupational Safety and Health Alice Hamilton Award for best peer-reviewed paper of the year, [Gressel, M.G., Heitbrink, W.A., McGlothlin, J.D., Fischbach, T.J.; "Real-Time, Integrated, and Ergonomic Analysis of Dust Exposures During Manual Materials Handling," Applied Industrial Hygiene Journal. Volume 2, No. 3 pp. 108-113, May 1987]. February 29, 1988.

Nominated for the Centers for Disease Control 1988 Charles C. Shepard Science Award for the best scientific paper of the year, 1988.

Certificate of Appreciation from the Centers for Disease Control for the Development of an

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Innovative Approach to the Study of Dust Exposure in the Manual Weigh-Out of Chemical Powders, February, 1987.

Certificate of Appreciation from the National Institute for Occupational Safety and Health for Contributions to the Success of the First National Symposium on Prevention of Leading Work-Related Diseases and Injuries, May, 1985.