

# ***William F. Kraemer, Ph.D.***

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## **OVERVIEW**

Analysis focused biological science and building science professional with strong analytical investigative experience, outcome assessment and solution development. Formal education in biological, biochemical and biophysical research; work experience in construction with an emphasis on building science theory; authored bio-growth investigation protocols and construction methodologies. Instructor of Biology, Biochemistry and Biophysics, University of Tennessee and Oak Ridge Associated Universities. Extensive experience in IAQ (Indoor Air Quality) with a particular emphasis on bio-growth assessments and investigations, remediation practices and best methods development. Diverse consulting experience in system and process thinking, performance improvement, and training and development. Outstanding organizational and project management skills, team oriented problem solver.

## **Areas of Expertise**

| <u>Training</u>   | <u>Statistics</u>  | <u>Building Science</u>  |
|---|--|--|
| <ul style="list-style-type: none"><li>• Provider Certification Program Design</li><li>• Health Services Design and Deployment</li><li>• Continuing Education Program Development</li><li>• Research Report Composition</li><li>• Program Administration</li><li>• Curriculum Development for IAQ Investigations</li></ul> | <ul style="list-style-type: none"><li>• Descriptive</li><li>• Inferential</li><li>• ANOVA: MANOVA</li><li>• Discriminate Function</li><li>• Correlational</li><li>• Factor Analysis</li><li>• Survey Methodology</li><li>• Research Design, Methodology &amp; Theory</li></ul> | <ul style="list-style-type: none"><li>• Biology of Bi-Growth/Environmental Contamination</li><li>• IAQ Instrumentation Diagnostics</li><li>• Construction Methodologies for Healthy Environments</li><li>• Multiple certifications in bio-growth and biological remediation.</li><li>• Laboratory analysis and data interpretation</li><li>• Field microscopy guide and training</li></ul> |

## **Education & Professional Credentials**

### *McCrone Research Institute: 2007*

Graduate of “Indoor Air Quality: Fungal Spore Identification” program by the prestigious microscopy organization in Chicago, IL. The McCrone Research Institute.

### *Academy of Building Science, Inc: Incorporated 2007*

President and Education and Research Director, Owner 2005 to present

Responsible for curriculum and certification program development, train the trainer programs for in house staff and field education on new technologies for fungal remediation and prevention.

- Building Science and Moisture Intrusion 2005
- Certified Mold Inspector (CMI) 2005
- Certified Mold Remediation Contractor (CMRC) 2005
- Oxidative Bio-Growth Remediation Contractor 2006

- Field Microscopy for On-Site Fungal Identification 2006
- Field Microscopy for Fungal Spore Identification 2007

Emory University – Atlanta, GA

Department of Biostatistics, Linear Statistical Models/Clinical Trials: 2002 to present

Walden University - Minneapolis, MN

**Ph.D. Health Services: Management and Administration**, 1989

University of Tennessee, Knoxville, TN

**School of Business**, 1980-1981 - ½ of total MBA program – no degree awarded

**M.S. Biochemistry & Biophysics**, 1975

**B.S. Zoology** (Minor in Biochemistry) 1969

Auburn University, Auburn, AL

**School of Engineering**, 1964 to 1967: Mechanical and Structural Engineering – transfer to University of Tennessee

**Certified Professional in Human Resources** (PHR) Society for Human Resource Management (SHRM) 1989-1996

**Certification in Mediation and Conflict Resolution** 1986

West High School, Knoxville, TN 1964

Graduate with highest honors

## **Professional Experience**

**Indoor Environmental Standards Organization (IESO)** 2007

Member of the IESO Standards Development Committee and IESO Consensus Body.

**Indoor Air Quality Association (IAQA)** 2007

Member of Special Committee to the Board for Conflict of Interest and other policy statements and determinations.

**Licensed Pesticide Contractor (Georgia)** 2006

**Licensed Pesticide Applicator (Georgia)** 2006

**Academy of Building Science, Inc 2005 - Present**

*President, Chief Scientist and School Curriculum Director*

*Education and training resource for fungal investigations, fungal remediation and fungal prevention utilizing proprietary chemistry methods. Curriculum includes building science education specific to moisture intrusion and abatement methodologies for single family dwellings, multi-family dwellings and commercial properties.*

*Certifications offered for: Certified Inhibitor Applicator, Certified Fungal Investigator, Certified Fungal Remediation Contractor.*

**AtlantaMold LLC (2000 - Incorporated March 2005)**

*President, Chief Investigator*

*Practitioners for Indoor Air Quality Investigation, Testing, Remediation and Oversight; Performance of structure investigations for building defects and building science design failures resulting in bio-growth amplification; protocol development for remediation and mitigation of investigation findings; execution of remediation protocols through field staffing with technology and equipment deployment; performance of clearance investigation for third party remediation efforts.*

***Georgia Real Estate Appraisers Board (GREAB) 2005***

***Georgia Real Estate Commission (GREC) 2005***

*Approved school in Georgia for continuing education of real estate and appraiser professionals.*

**Accomplishments:**

- Residential Indoor Air Quality training program design and development.
- Indoor Air Quality: Recognition, Detection, Remediation and Oversight training program design
- Curriculum development for certification programs in Fungal Investigation and Fungal Remediation technologies.
- Research in IAQ and Fungal Contamination for both field and laboratory diagnosis of best practices associated with overall management of intrusion issues.
- Published:
  - Mold in Residences:
  - IAQ and Health Consequences:
  - 27 hours of continuing education for realtors and appraisers
  - Contractor Remediation Manual

***The Total Source Inc – Knoxville, TN***

*Indoor Air Quality and Systems Development for resource reengineering.*

*Principal, 1989 to 2000*

*Consultant to client organizations, municipalities, institutions on systems solutions system reengineering to meet strategic performance objectives. Research focus in development and implementation of system solutions based on quantitative results mapped to driving competencies, measurement tools and psychometric instruments, survey design and research, competency deployment and job design. Representative Accomplishments:*

- *United Nations Industrial Development Organization in Vienna, Austria contracted to provide consultative and experiential advice to industrial concerns and public policy officials in Ostrava, Czech Republic on programmatic solutions to organization downsizing environmental challenges in the newly formed republic.*

***National Psychopharmacology Laboratory – Knoxville, TN (NPL no longer exists)***

*Leading esoteric testing laboratory for psychopharmacological agents, forensic toxicology, substance abuse, and investigational drug testing.*

*Director of Marketing and Product Development, 1987 to 1989*

Nationally educated medical staff on psychopharmacological testing for prescription psychoactive drugs to include antidepressants, antipsychotics, and investigational new drugs. Forensic drug testing education to include technology requirements for various applications to include DOT requirements, applications in clinical monitoring programs, and substance abuse testing by employers.

***American Home Products – New York, NY***

*A leading pharmaceutical development and distribution organization with strong emphasis on human health based pharmaceutical agents.*

Technical Product Trainer Representative, 1982 to 1987

Physician and medical staff pharmaceutical education and support. Responsible for pharmaceutical applications education of health care providers. Multi-state responsibility for self-directed and self-managed health care institution and practitioner application of pharmaceuticals to the treatment of indicated medical conditions.

***Cutter Laboratories – Seattle, WA (Cutter Laboratories no longer exists)***

*An innovative manufacturer of medical products and devices.*

National Physician and Health Care Trainer/Developer, 1981-1982

Provided in-house training and practice development for medical applications dealing with central-line alimentation.

***Oak Ridge Associated Universities, Oak Ridge, TN***

*Research Associate, multi-disciplinary, multi-university research association in basic molecular, cellular, mammalian cancer, radio nuclide research. Involved in REACTS programs, positron emission tomography, fast organ-borane synthesis of radio nucleotides, lipid chemistry research.*

Instructor Research Associate in Biochemistry and Biophysics, 1975 to 1979

Laboratory research and graduate school teaching in Biochemistry of yeast and fungal metabolic pathways, adenoma cancer induction, Position Emission Tomography, effects of Cobalt radiation on pathways. Responsible for experimental design and subsequent laboratory execution of experiments, data assimilation and interpretation.

***U.S. Army – Munich, Germany 225<sup>th</sup> Station Hospital***

Pharmacist Specialists 1970-1972 – Provided complete pharmacy services to the 225<sup>th</sup> Station Hospital in Munich, Germany.

Pharmacist within the medical service sector of the US Army in Europe. Responsible for Pharmacy services, drug and prescription management, bulk preparation of pharmaceutical agents.

## **Publications Published**

- Masters Degree Dissertation: The Inactivation of Phosphoglucomutase by Tetranitromethane, A thesis presented for the Master of Science Degree, The University of Tennessee, 1975
- Purification and properties of Phosphoglucomutase from Fleischmann's yeast: Daugherty, JP; Kraemer, WF; Joshi, JG; Eur. J. Biochemistry, 1975 Sep 1; Vol. 57 (1), pp. 115026

- Studies of lysophospholipase D of rat liver and other tissues; Wykle, RL; Kraemer, WF; Schremmer, JM; Arch Biochem Biophys, 1977 Nov; Vol. 184 (1), pp. 149-55
- Glycerol kinase activity in adenoma alveolar type II cells; Wykle, RL; Kraemer, WF; FEBS Lett, 1977; Vol 78 (1), pp. 83-5
- Specificity of lysophospholipase D; Wykle, RL; Kraemer, WF; Biochim Biophys Acta, 1980 Jul 14; Vol 619 (1), pp. 58-67
- Substance Abuse Subtle Screening Inventory an Assessment Tool for Chemical Abuse in the Workplace; A dissertation submitted in partial fulfillment of the requirements for the Degree of Doctor of Philosophy, Walden University, 1990

## **Publications Personal**

- Work Place Substance Abuse Manual: A guidebook for organization in managing the substance abuse problem in the work place to include policy development, implementation, substance abuse testing and treatment. Written for the City of Knoxville, Chamber of Commerce. 1980
- Managing the social impact of displaced workers, UNIDO, 1997 Final Report
- Employee Turnover, The Role of Cultural Mismatching 1991
- The Biology of Fungi and its effect on Indoor Air Quality 2003
- Residential Indoor Air Quality Pollutants 2005
- Indoor Air Quality: Recognition, Detection, Remediation, Oversight 2005
- Contractors Manual for Fungal Remediation, 2005
- Fungal Identification on Unfinished Surfaces, 2006
- Standards of Practice for Fungal Investigations, 2006
- Contractors Guidelines for Oxidative Remediation, 2006
- Contractors Guidelines for Inhibitor Application, 2007

## **Work Shops**

- ASHI Georgia Regional Conference: three hour continuing education program for Home Inspectors throughout the Southeast.