



Max M. Houck, Ph.D., FRSC

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Experience

FORENSIC PORTFOLIO INNOVATOR, ASSISTANT RESEARCH PROFESSOR, FLORIDA INTERNATIONAL UNIVERSITY, 2020-CURRENT

Project-driven creative, assisting with current and potential forensic research and resource activities, programs, and education. Leveraging FIU's significant forensic portfolio to innovate, coordinate, and elevate.

PROGRAM COORDINATOR FORENSIC STUDIES & JUSTICE PROGRAM, UNIVERSITY OF SOUTH FLORIDA ST. PETERSBURG, ST. PETERSBURG FL, 2017-2020

Director of the Forensic Studies & Justice Program, a Criminology parallel B.S. degree emphasizing forensic intelligence, biases in investigations, corrective measures to improve social justice.

DIRECTOR, DEPARTMENT OF FORENSIC SCIENCES, DISTRICT OF COLUMBIA CONSOLIDATED FORENSIC LABORATORIES, WASHINGTON, DC 20024. — 2012-2015

Responsible for the management and operation of the agency, which contains the Forensic Science Laboratory (ISO 17025), Public Health Laboratory (CDC Tier 1 Biology and Tier 2 Chemistry), and Crime Scene Sciences; primary responsibility for the Consolidated Forensic Laboratory, a 300K sq. ft facility with 2 BSL-3 labs and morgue. Independent forensic agency with jurisdictional responsibility for the District of Columbia. \$16M annual budget; \$1.5M in grants; 137 staff; achieved ISO 17025 in 8 months, CDC certification in 1 year.

PRINCIPAL ANALYST, FORENSIC ENTERPRISE DIVISION, ANALYTIC SERVICES, INC. (ANSER), ARLINGTON, VA — 2011-2012

Strategic leader in forensics and biometrics; National-scale strategy for forensic science.

DIRECTOR, FORENSIC SCIENCE INITIATIVE (RESEARCH); DIRECTOR, FORENSIC BUSINESS RESEARCH AND DEVELOPMENT (BUSINESS AND ECONOMICS), WEST VIRGINIA UNIVERSITY, MORGANTOWN, WV — 2001-2012

Direction of \$37M in research and resource initiatives for forensic science; Developing educational, professional, and business and economic applications and research; Lecturer in Forensic and Investigative Sciences Program.

PHYSICAL SCIENTIST, TRACE EVIDENCE UNIT, LABORATORY DIVISION, 1994-2001, FEDERAL BUREAU OF INVESTIGATION, WASHINGTON, D.C. — 1994-2001

Worked hundreds of cases in trace evidence and anthropology; Testified in local, state, and federal courts for prosecution and defense; Chairman of the Scientific Working Group for Materials Analysis; Technical Liaison Manager with federal agencies. Research Associate at Department of Anthropology, Smithsonian Institution. Assisted DoD with identification of 9/11 Pentagon victims.

CRIMINALIST II, 1992-1994, TARRANT COUNTY MEDICAL EXAMINER, FORT WORTH, TX — 1992-1994

Trace evidence analysis; Instituted forensic anthropology department in laboratory, including recovery of remains. Coordinating anthropologist for the Branch Davidian Investigation, Waco, TX

APPLICATIONS SPECIALIST, 1988-1992, OXFORD INSTRUMENTS, INC., MADISON, WI

ELECTRON MICROSCOPY TECHNICIAN, 1987-1988, MICHIGAN STATE UNIVERSITY, EAST LANSING, MI

ARCHAEOLOGIST AND RESEARCH ASSISTANT, 1982-1986, MICHIGAN STATE UNIVERSITY, EAST LANSING, MI

Education

PhD, 2010. Applied Chemistry (Summa Cum Laude--Chancellor's Letter) Curtin University, Perth, Australia

Thesis: *Foundational Principles of Forensic Science: Using Supply Chains as a Basis for Evidentiary Significance.*

M.A., 1998. Anthropology, Michigan State University, Thesis: Individualization of Toolmarks in Bone.

B.S., 1984. Anthropology, Michigan State University, Outstanding Senior in Anthropology

Professional memberships

American Chemical Society
American Society of Crime Laboratory Directors (retired)
Fellow, Royal Society of Chemistry
Association of Certified Fraud Examiners
American Association for the Advancement of Science

Awards

- ▶ Excellence in Reviewing, Science and Justice, 2013
- ▶ Best Oral Presentation, Australian-New Zealand Forensic Science Society Symposium 2010, Management and Quality Section, "The FORESIGHT Project: Collaborative Benchmarking for Effectiveness, Efficiency, and Quality"
- ▶ Mary E. Cowan Outstanding Service Award, American Academy of Forensic Sciences, 2009
- ▶ 100 Most Influential, Dominion Post, Morgantown, WV, 2004
- ▶ American Society for Testing and Materials, Forensic Sciences Award, 2001
- ▶ Quality Award, FBI Laboratory, 1999

Committees

- ▶ Royal Society Special Session on Forensic Science, London, UK, 2015
- ▶ Executive Office of the President of the United States, National Science and Technology Council, Committee on Science, Subcommittee on Forensic Science, Education, Ethics, and Terminology Interagency Working Group (2010-2011)
- ▶ NIST Human Factors in Latent Print Analysis, Co-Chair (2009-2012)
- ▶ Interpol Forensic Science Symposium Planning Committee (2008-present)
- ▶ Forensic Educational Program Accreditation Commission (FEPAC), Chairman (2005-2011)
- ▶ Forensic Educational Program Accreditation Commission (FEPAC) 2004
- ▶ European Academy of Forensic Sciences Symposium Scientific Committee (2005-2006)
- ▶ National Academies of Science Committee on Educational Paradigms for Homeland Security (2004)
- ▶ National Library of Medicine Planning Panel, History of Forensic Science exhibit, 2002-2003

Selected books and book chapters

- ▶ Houck, M.M. (2020) "Improving investigations with structured analytic techniques," in Masys, A., Fox, B. and Reid, J. (eds) *Science Informed Policing*. Springer.
- ▶ Houck, M.M. (2020) "Front-end Forensics: Using forensic science as an active intelligence tool in investigations," in Masys, A., Fox, B. and Reid, J. (eds) *Science Informed Policing*. Springer.
- ▶ Houck, M.M., Funk, C., and Feder, H. (2018). *Successful Expert Testimony, Fifth Edition*. CRC Press.
- ▶ Houck, M.M., Crispino, F., and McAdam, T. (2018). *The Science of Crime Scenes, 2nd Edition*. Elsevier: Amsterdam.
- ▶ Houck, MM and Siegel, JA, (2016) *Fundamentals of Forensic Science*, 3rd Edition, Academic Press, San Diego.
- ▶ Houck, M. (2015) (Ed) *Advanced Forensic Science Series: Forensic Chemistry*. Elsevier: Amsterdam.
- ▶ Houck, M. (2015) (Ed) *Advanced Forensic Science Series: Professional Issues*. Elsevier: Amsterdam.

	All	Since 2015
Citations	2478	1183
h-index	25	17
i10-index	40	30

- Houck, M. and Speaker, P. 2015. "Developing new models for forensic science: The business of forensics," in Hickman, M. (ed) *Forensic Science and the Administration of Justice*, pages 221-234. SAGE Publications.

Selected Journal Publications

- Houck, MM. Strategic leadership through performance management; FORESIGHT as PerformanceStat. *Australian Journal of Forensic Sciences* (2017), DOI: 10.1080/00450618.2017.1374457.
- Houck, MM. 2016. Risk, Reward, Redemption: Root Cause Analysis in Forensic Organizations, *Forensic Science Policy and Management*, 7(3-4): 106-112.
- Houck MM, McAndrew WP, Porter M, Davies B: 2015. A review of forensic science management literature; *Forensic Science Review* 27:53.
- Maguire, C., Houck, M., Williams, R., and Speaker, P. 2012. Efficiency and the cost effective delivery of forensic science services: In-sourcing, out-sourcing, and privatization, *Forensic Science Policy and Management*, 2 (3)28-35.
- Kobus, H., Houck, M.M.*, Speaker, P., Riley, R. and Witt, T. 2011. "Managing Performance in the Forensic Sciences: Expectations in Light of Limited Budgets," *Forensic Science Policy and Management* (2): 1-8.
- Mnookin, J.*, Cole, S., Fisher, B., Houck, M., Inman, K., Kaye, D., Koehler, J., Langenburg, G., Risinger, M., Rudin, N., Siegel, J. and Stoney, D. 2010. "The need for a research culture in the forensic sciences," *University of California Law Review* (58) 725-779.
- Houck, MM, Riley, R, Speaker, P and Witt, T. 2009. "FORESIGHT: A business approach to improving forensic services" *Forensic Science Policy and Management* 1(2): 85-95.

Academic Experience

TEACHING

University of South Florida St. Petersburg

- CJE 4560 Introduction to Forensic Science
- CJE 4660 Forensic Investigations
- CJE Special Topics (Fraud) (2018)
- CJE Special Topics (Forensic Investigations) (2016)
- CJE Special Topics (Field Forensics) (2017)

Indiana University/Purdue University at Indianapolis

- Research Methods (online) (2017)

University of Tampa

- CHE 440 Forensic professionalism (2016, 2017)

American University Washington College of Law

- LAW 878 Scientific Evidence and Expert Testimony (2012)

West Virginia University

- FIDP 210 Introduction to Forensic Science (2004, 2005)
- FIDP 401 Senior Forensic Capstone (2003, 2004, 2005)
- FIDP 406 Court Testimony (2005, 2006)
- FIDP 402 Forensic Professional Communications (2008-2010)