**Workshop 9: The Real C.S.I. Miami - A Collaborative Approach to Death Investigation with an Emphasis on Investigative Postmortem Toxicology**  
**Tuesday, October 9, PM (1:30-5:30 pm)**

### Chairs
Liz Zaney BS, Toxicology Supervisor, Miami-Dade Medical Examiner Department  
George W Hime M.S., Assistant Laboratory Director, Miami-Dade Medical Examiner Department

### Abstract
The Miami-Dade County Medical Examiner Department has been at the forefront of forensic medicine since its inception in 1956. Dr. Joseph H. Davis, the first Chief Medical Examiner, envisioned a department that engages all aspects of its operation in the investigation of deaths. The Toxicology Laboratory, one of the first operations formed in the Department, continues this philosophy by utilizing investigative and autopsy information in its daily processing of each medical examiner case. In today’s world, this approach to investigative postmortem forensic toxicology appears to be fading from our historical beginnings, a trend that may result in major shifts in our profession. This workshop will emphasize investigative toxicology, which utilizes a holistic approach to case investigation to ensure accurate cause and manner of death determination. Case examples will be presented that demonstrate the benefits of this approach and its value to medical examiners, forensic toxicologists, and the communities they serve.

### Learning Objectives
1. To educate the attendees on how investigative postmortem forensic toxicology functions in a modern Medical Examiner Department, using case examples, operational descriptions, and staff organization.
2. To demonstrate the advantages of this approach in managing case progress by utilizing case information to target specific toxicological analyses, consequently improving case flow efficiency and providing comprehensive findings.
3. To illustrate the importance of collaboration among all parties: toxicologists, investigations, and pathologists, for the successful determination of cause and manner of death.

### Audience Knowledge
Basic - suitable for individuals new to the field, requires little prior knowledge to the subject matter
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<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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| 1:30-2 pm     | Introduction to Investigative Postmortem Forensic Toxicology at the Miami-Dade Medical Examiner’s Dept.  
                George Hime                                     |
| 2-2:15 pm     | Application of Investigative Forensic Toxicology – How does it work?                         
                Liz Zaney                                       |
| 2:15-2:45 pm  | Investigators and Toxicologists – Integrating Case Information and Science to Achieve Success  
                Brittney McLaurin                                |
| 2:45-3 pm     | Part 1: Cases Studies –  
                A sad and desperate young man  
                Killer bees  
                Pain and Gain  
                Liz Zaney                                            |
| 3-3:15 pm     | Part 2: Case Studies –  
                Lucy in the Sky with Diamonds  
                Boats and Baseball don’t mix  
                Tales from the Hot Tub  
                Alex Giachetti                                             |
| 3:15-3:30 pm  | Break                                                                                       |
| 3:30-3:45 pm  | Part 3: Case Studies –  
                The secrets of the universe  
                The stressful life of a scientist  
                Up close and personal with a police cruiser  
                Jennifer Gonyea                                                  |
| 3:45-4 pm     | Part 4: Case Studies –  
                Scooby Snax  
                A cure for snoring  
                Susan Humphrey                                             |
| 4-4:30 pm     | The Pathologist's Point of View – Does this really work?                                    
                Fintan Garavan                                              |
| 4:30-5:15 pm  | An exercise in Investigative Postmortem Forensic Toxicology – Diane Boland,  
                George Hime, Liz Zaney                                      |
| 5:15-5:30 pm  | A Final Look at the Role and Success of Investigative Postmortem Forensic Toxicology at the Miami-Dade Medical Examiner Dept.  
                Diane Boland                                                 |