



Damien A. Narcisse, Ph.D.

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Education

Ph.D. Analytical Chemistry. Louisiana State University, Baton Rouge, LA 70803.

Dissertation: *On-line Laser Desorption Mass Spectrometry*

B.S. Chemistry. Xavier University of Louisiana, New Orleans, LA 70125.

Professional Experience

- Southern University, Baton Rouge, LA, Chemistry Department—**Associate Professor** 2014-present
- LSU Food Science/Agriculture Center—**Pos. Doc./Res. Assoc.** 2010-2014
- LSU Chemistry—**Graduate Assistant** 2002-2009
- LSU Agriculture Chemistry Department—**Lab Technician** 2000-2001

Publications/Presentations

- *Flavor Analysis of Wild and Farm-raised Shrimp by SPME-GC-MS* presented at the 254th American Chemical Society Conference, New Orleans, LA. 2013
- *An In Vivo/In Vitro Cellular Transport Study of Resveratrol and Icaritin* presented at the 60th American Society for Mass Spectrometry Conference, Vancouver, BC. 2012
- *Dry Powder Matrix Addition for MALDI Tissue Imaging* presented at the 58th American Society for Mass Spectrometry Conference, Salt Lake City, UT. 2010
- *Direct Real-Time Desorption Ionization* presented at the 55th American Society for Mass Spectrometry Conference, Indianapolis, IN. 2007
- "Direct Coupling of Polymer-based Microchip Electrophoresis to Online MALDI-MS Using a Rotating Ball Inlet" *Electrophoresis*. 2005
- "On-line Capillary Electrophoresis Using a Rotating Ball Interface" *Analytical Chemistry*. 2004
- "On-line Single Droplet Deposition for MALDI Mass Spectrometry" *Journal of the American Society for Mass Spectrometry*. 2004

Laboratory Experience

SOUTHERN UNIVERSITY CHEMISTRY DEPARTMENT

- Quantitative analysis—performed duties surrounding the operation and maintenance of quantitative chemical analysis laboratory.
- Developed methods for various quantitative chemical analysis experiments.
- General chemistry laboratory—performed duties surrounding the operation and maintenance of general chemistry laboratories and general chemistry for pre-nursing laboratory.

LSU FOOD SCIENCE/AGRICULTURE CENTER

- Utilize mass spectrometry and chromatography techniques for experiments related to food analysis.
- Synthesis of novel carbohydrate compounds to combat obesity and digestive intolerance.
- Berry byproduct analysis for antioxidant properties and food processing usefulness.
- Environmental sampling of seafood for pre- and post-harvest contamination.
- Solid-phase microextraction (SPME) interrogation to detect volatile flavor compounds in seafood.

LSU CHEMISTRY DEPARTMENT

- Designed and constructed a matrix-assisted laser desorption time-of-flight mass spectrometer with an adaptable ion source for conversion between multiple experiments.
- Developed a ball-let interface for on-line MALDI-MS that allowed continuous analyte sampling and minimal sample handling, developed for novel, on-line LC-MS experimentation using capillary and microfluidic chip electrophoresis techniques.
- Employed biotech applications using micro-scale chromatography devices coupled directly to MS analysis for online protein digestion, separation and identification.
- Identified pharmaceutical and tissue compounds with direct contact ball-inlet on-line laser desorption with no sample pretreatment.
- Analysis of whole plant tissue, whole blood and other biological media for target analyte detection.

LSU AGRICULTURE CHEMISTRY DEPARTMENT

- Pesticide analysis using gas chromatography and gas chromatography/mass spectrometry techniques.
- Handled environmental samples with current GLP standards.

Teaching Experience

- General chemistry lecture and lab, general chemistry for nursing lecture and lab, quantitative analysis lecture and lab. Southern University 2014-present
- USDA Scientific Exchange Program, University of Georgetown, Guyana. Topic: Gas Chromatography and Pesticides 2012
- Food Protein Biotechnology, LSU Food Science. Topic: Mass Spectrometry Techniques 2010
- National Chemistry Foundation's You Be The Chemist Challenge coach 2007-2009

Professional Development

- Organized research teams for large-scale multi-organization projects at LSU Food Science.
- Coordinated mass spectrometry facility operations for LSU Chemistry department.
- Exceptional communication and interpersonal skills.
- Strong leadership and can work well with others.
- Quick grasp of new ideas and concepts.

Affiliations/Memberships

- Institute of Food Technologist (National and Regional) Since 2011
- American Chemical Society Since 2003
- American Society for Mass Spectrometry Since 2001
- NOBCChE Since 2001

Additional Laboratory Experience

- Familiar with commercial MALDI/ESI-TOF and TOF/TOF, QTOF, Ion-Trap instruments.
- Performed various wet chemistry techniques for MS, LC, GC and organic sample analysis.
- Utilized GC-single quad and GC-triple quad for MS/MS analysis.
- Operated many HPLC instruments and detectors for quantitative and qualitative studies.

*** Additional information available upon request**