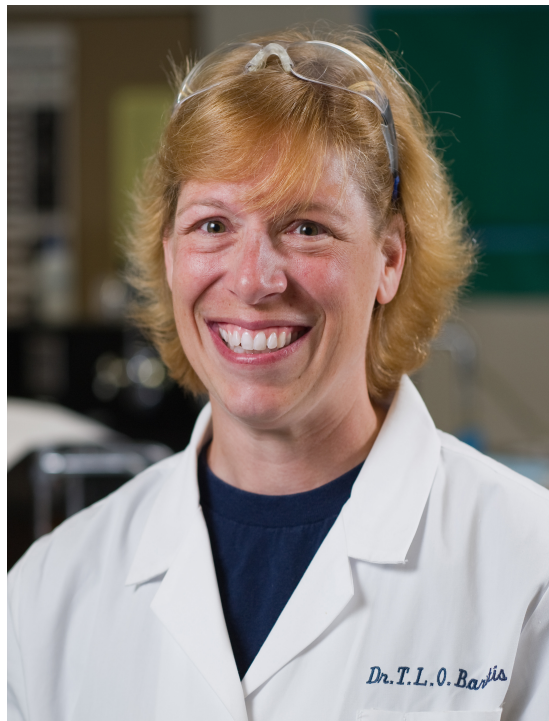


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The PADs Project: Solutions to World Problems



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Professor

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Dr. Toni L. O. Barstis is Professor in Physical Chemistry at Saint Mary's College and Affiliated Faculty of both NDnano (<http://nano.nd.edu/>) and AD&T (<http://advanceddiagnostics.nd.edu/>) at the University of Notre Dame. Dr. Barstis joined the Saint Mary's faculty in 1993, and has taught majors and liberal arts general chemistry lecture/lab courses, life-science physics lecture/lab courses, physical chemistry lecture/lab courses, and senior seminar.

Her current research responsibilities include co-directing (with Dr. Marya Lieberman, University of Notre Dame) several undergraduate and high school students on the Paper Analytical Devices (PADs) Project and serving as a co-PI on the NSF-REU Grant titled "REU Site: Interdisciplinary Working Group for Chemical Analysis in Low-Resource Settings."

The PADs Project (<https://www.saintmarys.edu/chemistry/pads>) is a collaborative, multi-disciplinary research project that designs and develops inexpensive paper-based devices for detecting and screening a wide range of chemicals and pharmaceuticals. She was awarded the Spes Unica award for excellence in teaching, scholarship, and service in 2013.

ANDREWS UNIVERSITY CHEMISTRY & BIOCHEMISTRY

HALENZ HALL AMPHITHEATER ([Thursday, September 18, 4:30 pm](#))