



1st Annual GTRI Shackelford Showcase

This is a presentation of projects by students participating in GTRI's Robert G. Shackelford Graduate Fellows Program, which honors the service and personal integrity which Robert Shackelford brought to the Georgia Tech Research Institute (GTRI) during his 34 year career at Georgia Tech.

The Shackelford Graduate Fellows Program is designed to provide an environment for graduate level research while providing financial support to qualified graduate students. The program also provides another avenue for academic collaboration between the research units at GTRI and various academic units through joint direction and supervision of graduate student research.

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| 8:00 - 8:20 | Arrivals and Refreshments |
| 8:20 - 8:30 | Welcome and Opening Remarks |
| 8:30 - 9:00 | David Reid (School of Electrical and Computer Engineering) The Optimization of Fresnel Zone Plates for Use in Focused-Beam Measurement Systems GTRI Faculty Advisor: John Schultz |
| 9:00 - 9:30 | Liam Mac Dermid (School of Computer Science) Trust in Multi-Agent Systems GTRI Faculty Advisor: Lora Weiss |
| 9:30 - 10:00 | Jomkwun Munnae (School of Mechanical Engineering) Robotic Flexible Endoscope Control GTRI Faculty Advisor: Gary McMurray |
| 10:00 - 10:30 | Kevin Davies (School of Mechanical Engineering) A Common Modeling Basis for the Design of Fuel Cell Hardware and Controls GTRI Faculty Advisor: Comas Haynes |
| 10:30 - 11:00 | Jack Flicker (School of Materials Science and Engineering) Three Dimensional Carbon Nanotube Photovoltaics GTRI Faculty Advisor: Jud Ready |
| 11:00 - 11:30 | Kara Evanoff (School of Materials Science and Engineering) Silicon-decorated Carbon Nanotubes as High Capacity Anodes for Lithium-ion Batteries GTRI Faculty Advisor: Tom Fuller |
| 11:30 - 12:00 | Nurkan Turkdogru (School of Aerospace Engineering) Validity of the Point Source Assumption of a Rotor for Farfield Acoustic Measurements GTRI Faculty Advisors: Krish Ahuja and Rick Gaeta |
| 12:00 - 12:30 | Grahame Vittorini (School of Physics) Investigation of Planar Ion Traps for Quantum Information GTRI Faculty Advisor: Alexa Harter |
| 12:30 | Special Recognitions, Closing Remarks and Reception |

For more information contact Donna Favors, donna.favors@gtri.gatech.edu

Directions & Parking:

Transportation is provided via a GTRI van running a continuous loop between 250 14th Street, Centennial Research Building, Campus Recreation Center and the Food Processing Technology Building. It will run from 7:30am to 1:30pm. There is limited parking available at the facility. Map and directions: <http://www.gtri.gatech.edu/atlanta/food-processing>

